Appendix A

Notice of Preparation, Scoping Comments

NOTICE OF PREPARATION OF A DRAFT EIR AND PUBLIC SCOPING MEETING

DATE: May 15, 2024

TO: Responsible Agencies and Interested Parties

SUBJECT: Notice of Preparation of a Draft Environmental Impact Report and Public Scoping Meeting

Pursuant to the California Environmental Quality Act (CEQA), the County of San Bernardino (County) must conduct a review of the environmental impacts of the Electric Vehicle (EV) Charging Station and Logistics Facility (project). Implementation of the project will require discretionary approvals from local agencies and may require such approvals from state agencies; therefore, the project is subject to the environmental review requirements of CEQA. As the lead agency under CEQA, and due to the involvement of potentially significant impacts to the environment, the County is therefore issuing this Notice of Preparation (NOP) of an Environmental Impact Report (EIR) for the project.

PROJECT TITLE: ELECTRIC VEHICLE CHARGING STATION AND LOGISTICS FACILITY

PROJECT APPLICANT: EVC PARTNERS LLC

ASSESSOR'S PARCEL NUMBERS: 049-714-203; 049-714-204; 049-714-214; and 049-714-215

PROJECT DESCRIPTION:

The project would include development of the following: (1) an EV Charging station to serve light duty/passenger vehicles and medium and heavy-duty trucks, and (2) a state-of-the-art concrete tilt-up logistics facility of 1,341,432 square feet in three buildings on 99.85 acres. The project would be processed under a Conditional Use Permit(s) (CUP(s)) and would include a Countywide Plan/Policy Plan Amendment from the current General Plan designation of Rural Living (RL) to Limited Industrial (LI) and a Zoning Amendment from Rural Living (RL) to Community Industrial (IC), as well as other entitlements listed below.

The project is located on the east side of Lenwood Road between California Highway 58 (CA 58) and Interstate 15 (I-15) in an area planned for significant intermodal, warehouse, and distribution uses. It would be located directly across the street from land zoned industrial in the City of Barstow and the proposed Barstow International Gateway (BIG) project. The majority of the land surrounding the project site is vacant, with the exception of the High Desert Estates subdivision located to the south of the project site.

The EV Charging station would include a commercial building of up to 15,000 square feet that would contain ancillary uses (e.g., food, convenience, restaurant with drive-thru, amenities for site users), a truck wash, a truck maintenance facility, and truck scales. The project is also proposing site improvements, including landscaping,

gathering/amenity areas for logistics facility employees, parking, required utility facilities and upgrades, drainage facilities, and a buffer (e.g., landscaping, wall) at the project's southern boundary.

Access to and from the site would be via Lenwood Road. Parking would be provided on-site for each proposed use in accordance with the County Development Code requirements. Per County Code, a masonry wall would be required along the north, east, and south sides of the project (if the adjacent residential land uses on those sides are zoned at the time of project development with a zoning designation [e.g. residential] that would require such a wall be constructed, per County Code).

Water service would be provided by Golden State Water Company (GSWC) and the City of Barstow would provide sewer service. Electrical power would be provided by Southern California Edison (SCE), supplemented by on-site solar generation and batteries for the EV Charging station (e.g., solar canopies above parking spaces). EV Charging stations would be designed and located on-site to provide adequate access to customers and public safety vehicle requirements. The hours of operation are proposed at 24 hours/7 days per week.

PROJECT SITE:

The project site is located in unincorporated San Bernardino County, California, within the City of Barstow Sphere of Influence. The site is located on Lenwood Road approximately 2.4 miles northwest of Interstate 15 (I-15), 1.15 miles southwest of State Route 58, and approximately 6 miles west of I-40 (Figure 1, Project Location). The project site consists of four vacant and undeveloped parcels (Figure 2, Project Area). The project site is bordered to the south by the existing High Desert Estates subdivision, to the east and west by undeveloped land, and to the north by residences, as shown on Figure 2. The Burlington Northern Santa Fe (BNSF) owned railway line is located south of the project site and runs east-west, relatively parallel to I-15.

The project site is zoned as RL and is also designated RL in the Countywide Plan/Policy Plan. Given the project site's current zoning and land use designation of RL, the project would require a Zoning Amendment and Countywide Plan/Policy Plan Amendment as part of the approval process. The project site would be rezoned from RL to Community Industrial (IC) and redesignated from RL to Limited Industrial (LI) in the Countywide Plan/Policy Plan (Figure 3, Existing and Proposed Zoning). The County's Development Code Section 82.06.040 states that both "truck stop" and "wholesale and distribution" facilities are allowed on IC-zoned land with the facilitation of a CUP. In addition, that section states that a "service station" is a permitted use in IC-zoned land. The project is consistent with the definitions of "truck stop", "service station", and "warehouse and distribution" provided in the County's Development Code.

PROJECT OVERVIEW AND DESIGN:

The project is subject to CUP approval in the IC zone and would require a Countywide Plan/Policy Plan Amendment and Zoning Amendment as described below:

- **Countywide Plan/Policy Plan Amendment**: The project includes a Countywide Plan/Policy Plan Amendment to change the Policy Plan land use

designation from RL to LI in order to be in compliance with the Countywide Plan/Policy Plan adopted October 27, 2020.

- **Zoning Amendment**: The project includes a Zoning Amendment to change the zoning designation from RL to IC in order to be in compliance with the Countywide Plan/Policy Plan adopted October 27, 2020.
- **CUP:** The project requires a CUP(s), which would cover the approximately 100-acre project site and include the construction and operation of an electric vehicle charging station and logistics facility, as described below:

EV Charging Station, Commercial Use and Truck Services

The proposed EV Charging station would provide EV charging for light duty/passenger vehicles and medium and heavy-duty trucks.

The site is designed to have a range of EV chargers to serve different charging needs (e.g., automobiles vs medium and heavy-duty trucks; slower chargers for overnight truck charging vs fast charging for trucks, etc.). The number and mix of chargers would be dependent on market demand and the available electrical power. The Draft EIR will identify and evaluate the number of chargers to be installed at project development. Per Assembly Bill 970 (enacted 2021), each parking space may be equipped with a charger, approval of which is considered a ministerial act.

The project would include a commercial building of up to 15,000 square feet that would contain ancillary uses (e.g., food, convenience services, restaurant drive-thru, amenities for site users, etc.) for people charging vehicles and trucks, as well as for local residents and nearby logistics uses. A two-lane truck wash, truck maintenance facility with up to four bays, and two-lane truck scales would also be included.

Logistics Facility

The proposed logistics facility would consist of three buildings, each comprising approximately 447,144 square feet, with a total square footage of 1,341,432 (Figure 4).

Conceptual Logistics Site Plan

The proposed logistics buildings are rectangular shaped with elongated walls parallel to the internal area of the site and the property's north property line. Access to the project site would be provided as shown on the site plan. Driveways would allow access to both passenger cars and trucks; enclosed truck courts with loading docks and trailer parking spaces would be provided. Automobile parking spaces are distributed near the buildings. The number of parking spaces (automobiles and trailers) are identified as approximate (±) to acknowledge the possibility of striping revisions in the future to accommodate the needs of future building occupants.

Conceptual Logistics Architecture Plan

The proposed logistics buildings are designed to reach a typical industry height above the finished floor elevation; however, the buildings would have a varied roofline with a maximum allowable building height of up to 50 feet (plus parapet as allowed by County Code) and would comply with occupancy standards of the Uniform Building Code and Chapter 82.06.060 of the County's Development Code. Buildings would be constructed

of painted concrete tilt-up panels and low-reflective glass. Decorative building elements include panel reveals, parapets, mullions, and canopies at office entries.

Conceptual Landscape Plan

The project's conceptual landscape plan will include landscaping that would be 'local' and ornamental in nature and would feature drought-tolerant trees, shrubs, and groundcovers. Trees planted at regular intervals and drought tolerant plants and groundcovers are proposed along the project site's frontage along Lenwood Road.

Landscaping would be provided at driveways, building entries, in and around automobile parking areas, and in the landscape buffers adjacent to the southern and northern property boundaries. Lighting would be provided throughout the site for visibility and safety and would meet the requirements established in the County's Development Code Chapter 83.07.060.

Prior to issuance of a building permit, the project applicant would be required to submit final planting and irrigation plans to the County for review and approval. The plans are required to comply with the "Landscaping Standards" provided in Chapter 83.10 of the County's Development Code, which establishes requirements for landscape design, automatic irrigation system design, and water-use efficiency.

Public Road Improvements

Lenwood Road is currently a two-lane north-south oriented roadway that is classified as a 104-foot wide Major Highway in the County's Circulation Master Plan. The project would improve the east side of Lenwood Road to its ultimate half-width along the project site's frontage including the construction of sidewalk, curb and gutter. This half section would contain two northbound travel lanes and ½ of a 12-foot center lane. In addition, the project would add 6 feet of paving to the west half of Lenwood Road to accommodate the balance of the center striped median lane and would repave the existing southbound travel lane, to the extent such paving and re-paving have not already been completed by others. These proposed improvements may be modified upon further review of the County Public Works and Land Use Services Departments and, if so, such modified improvements will be evaluated in the Draft EIR. In addition, the amount of traffic light-controlled T-intersections and pocket or deceleration lanes needed along Lenwood Road are pending review by the Department of Public Works and once reviewed, will be evaluated in the Draft EIR. The right-of-way dedication for and construction of the ultimate width of the west side of Lenwood Road will be determined by future agreement between the City of Barstow and the County.

Vacation (or abandonment/removal) of the existing 40-foot-wide interior roadway right-of-way located centrally within the project site will be necessary. The site plan (see Figure 4) provides a new 60-foot-wide roadway dedication that would serve to provide future roadway accessibility to properties to the east of the site. Additional right-of-way along Lenwood Road street frontage would be required in accordance with County roadway standard street width requirements.

Water and Sewer Infrastructure Improvements

Water service would be provided to the project by GSWC. The project would construct new connections to the existing 12-inch-diameter water main beneath Lenwood Road –

connections for fire service, connections for new domestic service, and connections for irrigation service. All proposed water facilities would be designed and constructed in accordance with GSWC standards. The City of Barstow would provide sewer service to the project. The project would construct new connections to the existing 8-inch-diameter sewer main located beneath Lenwood Road. The proposed wastewater connection is required to be designed and constructed in accordance with City of Barstow standards.

Stormwater Drainage Infrastructure Improvements

The project's on-site stormwater drainage system would consist of catch basins, underground storm drainpipes, an underground infiltration chambers, and bio-swales/basins. The system is designed to collect, treat, and/or temporarily detain on-site stormwater runoff before discharging treated flows off-site. Specifically, "first flush" flows (i.e., typically the first surface runoff after a rainstorm, which contains the highest proportion of waterborne pollution) would be diverted into the underground infiltration chambers and the bio-swales/basins. The stormwater captured in the underground infiltration chambers would percolate through the soil thereby minimizing the volume of stormwater discharged off-site, while stormwater captured in the bio-swales would be discharged from the site gradually. Stormwater runoff captured after the first flush would be discharged off-site via proposed parkway drains that connect to the proposed storm drain system in Lenwood Road.

Dry Utilities

The project would result in the extension of underground utilities (e.g. electrical, telecommunications, fiber optic, etc.) along the project site's frontage with Lenwood Road. The undergrounding of utilities would be performed in coordination with SCE.

Based on the most recent information from SCE, initial electrical service to serve the project would be from the existing 33 kV circuit that runs along the west side of Lenwood Road.

Construction Characteristics

The project would be constructed in phases and construction is anticipated to last approximately 24-36 months.

As is typical for similar projects, construction equipment would generally operate approximately eight hours per day, six days per week in accordance with Section 83.01.080(g) of the County's Development Code. Permitted hours of construction are between 7:00 a.m. to 7:00 p.m. on Mondays through Saturdays (except federal holidays) Should construction activities need to occur at night (such as concrete pouring activities that require air temperatures to be lower than occur during the day), the project applicant would be required to obtain authorization for nighttime work from the County.

Entitlements

The requested entitlements for this project are as follows:

- Countywide Plan/Policy Plan Amendment from Rural Living (RL) to Limited Industrial (LI)
- Zoning Amendment from Rural Living (RL) to Community Industrial (IC)
- Conditional Use Permit(s)

- Tentative Parcel Map Waiver (or Tentative Parcel Map if Tentative Parcel Map Waiver is not granted)
- Request for Waiver of Dedication
- Right-of-Way Vacation and Abandonment and Roadway Dedication

EIR SCOPE

As set forth in the California Public Resources Code Section et seq., and the CEQA Guidelines, codified in the California Code of Regulations, Title 14, Section 15000 et seq, the County has determined, based on substantial evidence and in light of the whole record before the lead agency, that the project may have a significant effect on the environment and that an EIR shall be prepared for the project (PRC Sections 21080(d) and (e); 21802.2(d); 21083(b); and CEQA Guidelines Sections 15060(d) and 15081).

The lead agency has initially identified the following environmental considerations as potentially significant effects of the project:

- Aesthetics
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Land Use and Planning
- Noise
- Transportation
- Tribal Cultural Resources
- Utilities and Service System

The EIR will assess the effects of the project on the environment, identify potentially significant impacts, identify feasible mitigation measures to reduce or eliminate potentially significant environmental impacts, and discuss potentially feasible alternatives to the project that may accomplish basic project objectives while lessening or eliminating any potentially significant project impacts.

The County conducted a preliminary review of the proposed project and has determined it is not likely to result in significant environmental effects to the following resources: Agricultural Resources, Hazards and Hazardous Materials, Hydrology and Water Quality, Mineral Resources, Population and Housing, Public Services, Recreation, and Wildfire. Therefore, these topics will be discussed in the Executive Summary chapter of the EIR to the extent required to confirm the County's preliminary determination. If, during preparation of the EIR, an environmental effect is determined to result for one of these resources, a full analysis will be conducted for that resource topic in accordance with CEQA requirements. As part of the Final EIR, the County will prepare the required Findings of Fact and, if any significant and unavoidable impacts are identified, a Statement of Overriding Considerations.

RESPONSIBLE AGENCIES:

A responsible agency is a public agency other than the lead agency, which has permitting authority or approval power over some aspect of the overall project. A trustee agency is a state agency that has jurisdiction over natural resources and may or may

not be a responsible agency. This NOP provides a description of the project and solicits comments from responsible agencies, trustee agencies, federal, state and local agencies, and other interested parties on the scope and content of the EIR to be prepared to analyze the environmental impacts of the project.

Comments received in response to this NOP will be reviewed and considered by the lead agency in determining the scope of the EIR. Due to time limits, as defined by CEQA, your response should be sent at the earliest possible date, but no later than thirty (30) days after publication of this notice. We need to know the views of your agency as to the scope and content of the environmental information that is germane to you or to your agency's statutory responsibilities in connection with the project. Your agency may need to use the EIR prepared by our agency when considering your permit or other approval for the project.

OPPORTUNITY FOR PUBLIC REVIEW AND COMMENT:

The NOP is available for public review on the County's website at: https://lus.sbcounty.gov/planning-home/environmental/desert-region/

Additionally, a copy of the NOP is available for public review at the following locations:

San Bernardino County Library – Barstow Branch
304 East Buena Vista Street
Barstow, CA 92311

San Bernardino County Government Center
385 North Arrowhead Avenue, First Floor
San Bernardino, CA 92415

Hinkley Community and Senior Center
35997 Mountain View Road
Hinkley, CA 92347

We would like to hear what you think. Comments and/or questions should be directed to Jon Braginton, Planner, via U.S. mail or email **by no later than 5:00 p.m. on Friday, June 14, 2024.**

County of San Bernardino, Land Use Services Department
Attn: Jon Braginton, Planner
385 North Arrowhead Avenue, First Floor San Bernardino, CA 92415
Email: Jon.Braginton@lus.sbcounty.gov
Phone: 909.387.4110

Please include your name, phone number, and address in your response and, if commenting on behalf of an agency, your agency's contact person.

PUBLIC SCOPING MEETING:

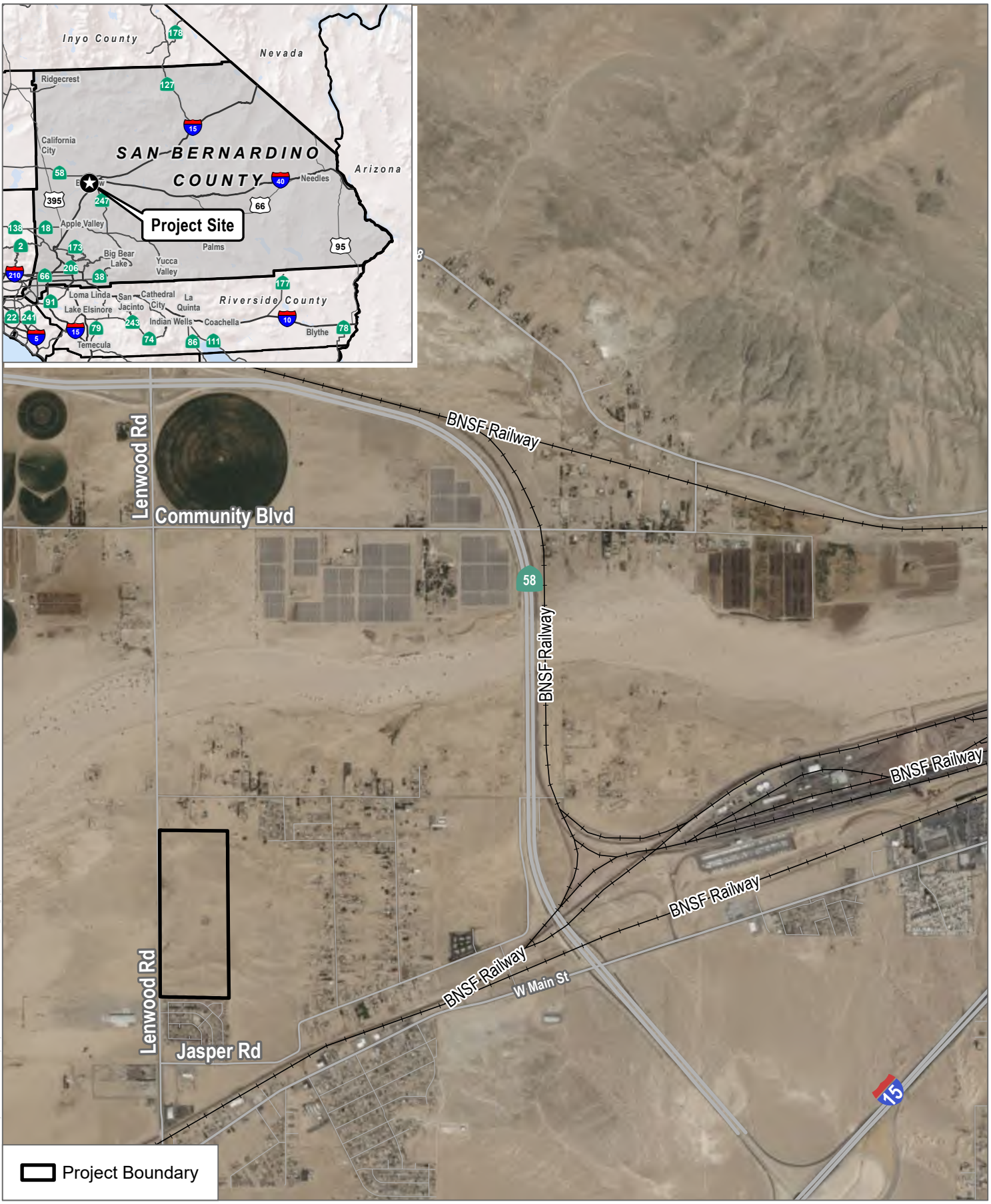
The CEQA process encourages comments and questions from the public throughout the planning process. Consistent with Section 21083.9 of the Public Resources Code, an

in-person Public Scoping Meeting will be held to solicit public comments on the scope and content of the EIR. The date and meeting details are as follows:

Date and Time: Thursday, May 30, 2024 from 6:00 to 8:00 P.M.

Place: Dana Park Community Center, 850 Barstow Road, Barstow, CA

If you require additional information, please contact Jon Braginton, Planner, at 909.387.4110 or Jon.Braginton@lus.sbcounty.gov.



SOURCE: Bing Maps Aerial (accessed 2023); Open Street Maps 2019; USDOT

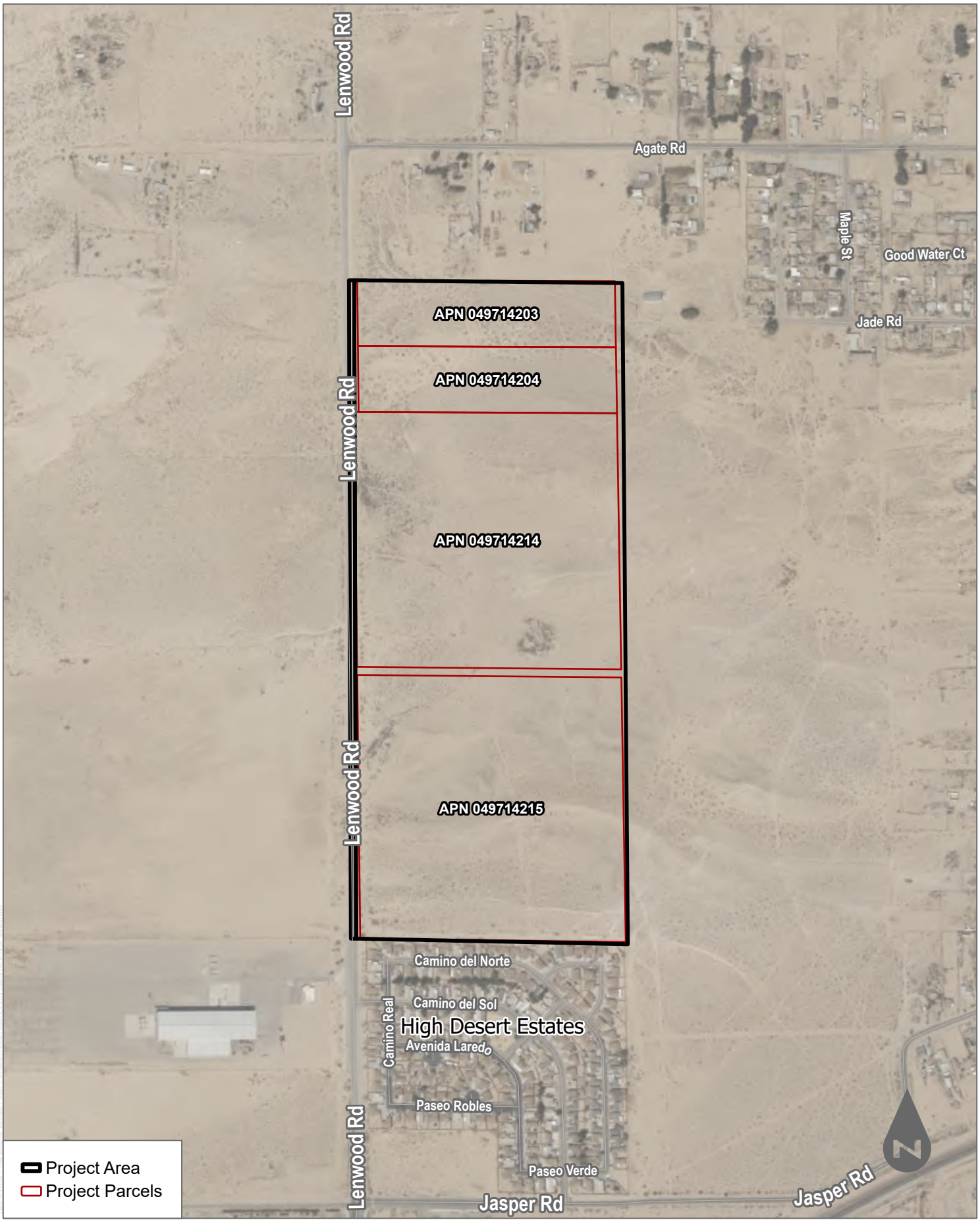
DUDEK

0 1,000 2,000 Feet

Figure 1

Project Location

EV Charging Station and Logistics Facility



SOURCE: Bing Map Aerial (accessed 2023); Open Street Maps 2019; San Bernardino County 2023

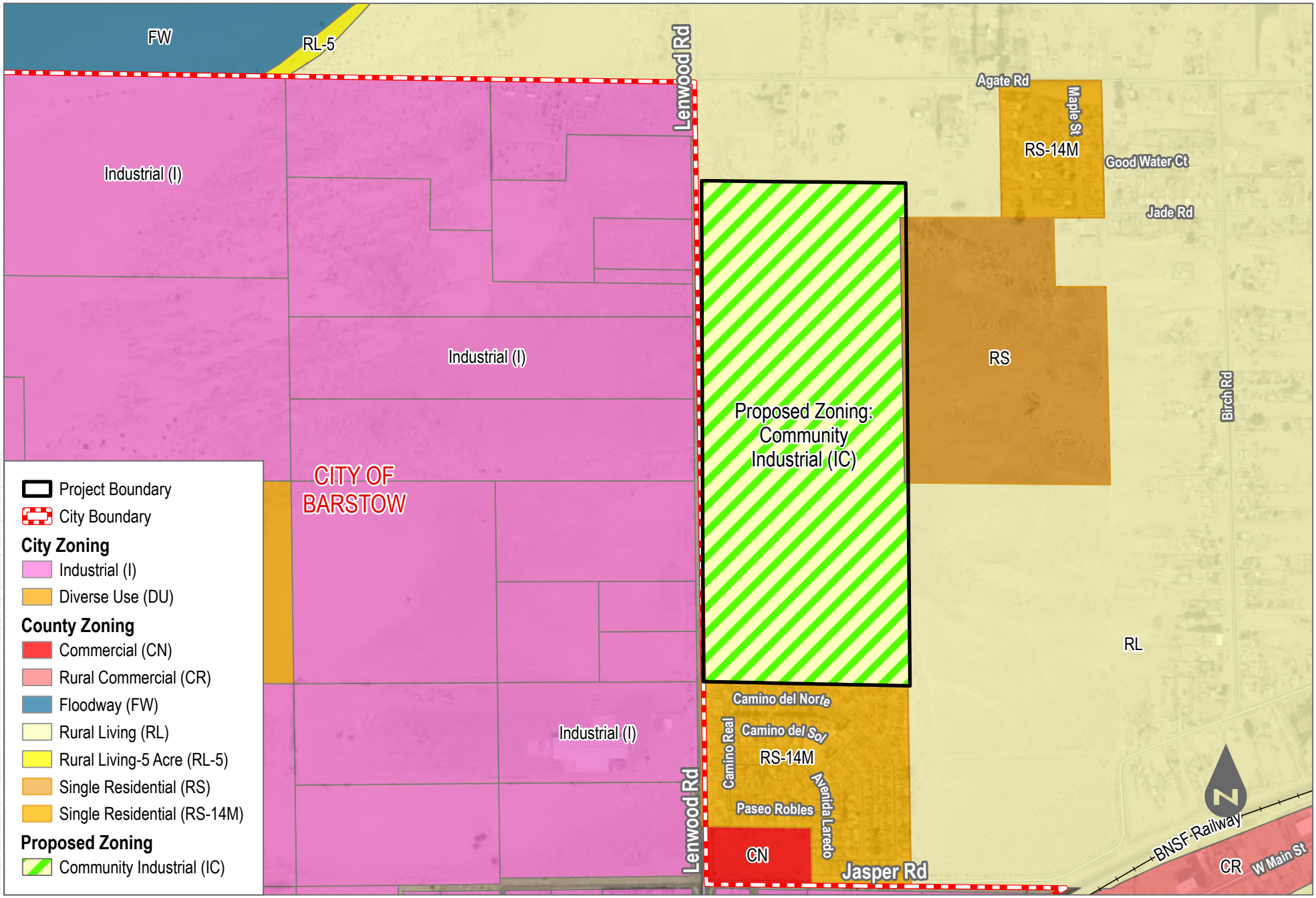
DUDEK

0 70 140 Meters

Figure 2

Project Area

EV Charging Station and Logistics Facility Project



SOURCE: San Bernardino County, Bing Maps 2024

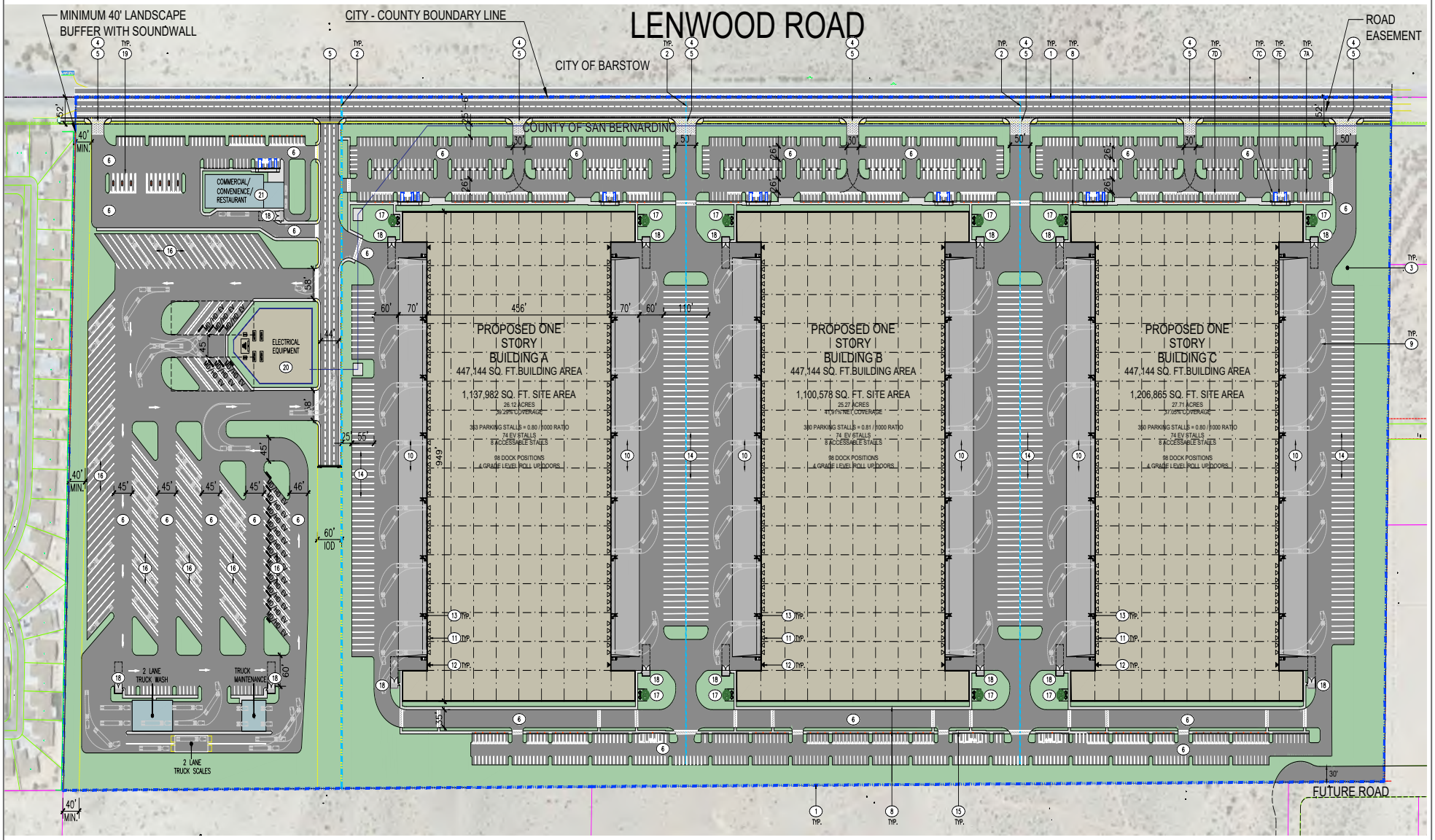
DUDEK

0 412.5 825 Feet

FIGURE 3

Existing and Proposed Zoning

EV Charging Station and Logistics Facility



SOURCE: RMV Architecture 2024

DUDEK

0 112.5 225 Feet

FIGURE 4

Electric Vehicle Charging and Logistics Facility - Site Plan

Electric Vehicle Charging Station and Logistics Facility Project

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Reginald Pagaling
Chumash

VICE-CHAIRPERSON
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SECRETARY
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Pauma-Yuima Band of Luiseño Indians

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May 15, 2024

Jon Braginton
San Bernardino County Land Use Services Department
385 North Arrowhead Avenue
First Floor
San Bernardino CA 92415

Re: 2024050651, Electric Vehicle Charging Station Project, San Bernardino County

Dear Mr. Braginton:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements**. If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

- **a.** A brief description of the project.
- **b.** The lead agency contact information.
- **c.** Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
- **d.** A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).

- **a.** For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

- **a.** Alternatives to the project.
- **b.** Recommended mitigation measures.
- **c.** Significant effects. (Pub. Resources Code §21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:

- **a.** Type of environmental review necessary.
- **b.** Significance of the tribal cultural resources.
- **c.** Significance of the project's impacts on tribal cultural resources.
- **d.** If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

- **a.** Whether the proposed project has a significant impact on an identified tribal cultural resource.
- **b.** Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:

a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or

b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:

a. Avoidance and preservation of the resources in place, including, but not limited to:

i. Planning and construction to avoid the resources and protect the cultural and natural context.

ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.

b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:

i. Protecting the cultural character and integrity of the resource.

ii. Protecting the traditional use of the resource.

iii. Protecting the confidentiality of the resource.

c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.

d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).

e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).

f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.

b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.

c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf.

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
    a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
    b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (https://ohp.parks.ca.gov/?page_id=30331) for an archaeological records search. The records search will determine:
    a. If part or all of the APE has been previously surveyed for cultural resources.
    b. If any known cultural resources have already been recorded on or adjacent to the APE.
    c. If the probability is low, moderate, or high that cultural resources are located in the APE.
    d. If a survey is required to determine whether previously unrecorded cultural resources are present.

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
    a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.

b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:

a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.

b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.

a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.

b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.

c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Murphy.Donahue@NAHC.ca.gov.

Sincerely,

Murphy Donahue

Murphy Donahue
Cultural Resources Analyst

cc: State Clearinghouse

From: Alex Tank <alex@alextank.com>
Sent: Saturday, May 18, 2024 6:27 PM
To: Braginton, Jon <Jon.Braginton@lus.sbcounty.gov>
Cc: Haylie Alcorn <haylie.alcorn@transtech.org>; David Mlynarski <david.mlynarski@transtech.org>
Subject: Barstow Lenwood - Electric vehicle Charging TT JN 230116

You don't often get email from alex@alextank.com. Learn why this is important

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you can confirm the sender and know the content is safe.

Hello All,

Hope you all are well. I tried to reach David, but it looks like we have a phone tag.

Hello Jon,

We own two properties in High Desert Estate. Following questions and concerns I have:

1. Environmental Impact

- What measures will be taken to mitigate air and noise pollution during and after construction?

- How will stormwater management be addressed to prevent flooding or water pollution in nearby areas?

2. Traffic and Accessibility

- What changes in traffic patterns are expected due to the new facility, and how will they affect local roads and neighborhoods?

- Will there be any improvements or additional infrastructure (e.g., traffic lights, widened roads) to accommodate increased traffic?

3. Safety and Security

- What security measures will be implemented to ensure the safety of nearby residents?

- How will the facility ensure the safety of pedestrians and cyclists in the vicinity?

4. Property Values and Compensation

- How will the project affect property values in the surrounding area?

- Is there any form of compensation or property tax reduction planned for homeowners affected by potential negative impacts?

5. Construction and Operation

- What are the hours of construction, and how will noise and disruption be minimized?

- Will there be restrictions on the types of vehicles or the volume of traffic during certain hours to reduce disturbances?

6. Community Engagement

- What opportunities will there be for ongoing community input and feedback during the planning and construction phases?

- Will there be regular updates provided to local residents regarding project milestones and potential impacts?

Concerns to Address

1. Noise Pollution

- Ensuring that adequate sound barriers and other noise reduction measures are in place, particularly given the proximity to residential areas.

2. Air Quality

- Requesting continuous air quality monitoring and the implementation of green technologies to minimize emissions from both construction and operational activities.

3. Property Value Impact

- Expressing concerns about potential depreciation of property values and requesting assurances or compensation mechanisms.

4. Safety

- Highlight the need for robust security measures and traffic safety plans to protect local residents, especially children and elderly individuals.

Requests and Demands

1. Mitigation Measures

- Requesting the developer to implement and maintain sound barriers, landscaping buffers, and air quality control measures.

2. Community Benefits

- Requesting for community benefits such as road improvements, recreational areas, or financial compensation for potential inconveniences or property value reductions.

3. Monitoring and Reporting

- Requesting regular updates and transparent reporting on the project's progress and any issues that arise, with clear channels for community feedback.

4. Engagement

- Ensure there are clear and accessible avenues for community engagement and input throughout the project's lifespan, including during the Environmental Impact Report (EIR) process and public meetings.

Thank you,

Alex Tank
Real Estate License # 01931797
Mortgage License NMLS # 1848182
Cell: 805 268 3150
www.AlexTank.com

"We are a product of our decisions not the conditions, our growth and freedom depend on how we respond to those conditions."

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06/14/2024

VIA EMAIL ONLY

Jon Braginton, Planner
County of San Bernardino, Land Use Services Department
385 North Arrowhead Avenue, First Floor
San Bernardino, CA 92415
Email: Jon.Braginton@lus.sbcounty.gov

RE: NOP Comments for Electric Vehicle Charging Station And Logistics Facility Project

Dear Mr. Braginton,

The comments are submitted on behalf of Californians Allied for a Responsible Economy ("CARE CA") regarding the Notice of Preparation ("NOP") of a Draft Environmental Impact Report ("DEIR") for the Electric Vehicle Charging Station And Logistics Facility ("the Project"). CARE CA understands that the Project includes the development of an EV Charging station to serve light duty/passenger vehicles and medium and heavy-duty trucks, and a logistics facility of 1,341,432 square feet in three buildings on 99.85 acres.

The goal of an EIR is to provide decisionmakers and the public with detailed information about the effects of a proposed project on the environment, how significant impacts will be minimized and alternatives to the project (Pub. Res. Code § 21002.2). Ideally, the discussion should include sufficient detail to allow those who do not participate in the DEIR's preparation to understand and meaningfully deliberate the issues raised by the Project. We, therefore, respectfully request a complete analysis of all identified impacts, imposition of all feasible mitigation and study of a reasonable range of alternatives.

Since the informational sufficiency of an EIR should be at the heart of its preparation, we ask the County, as lead agency, to consider the following requests:

Industrial Uses: Since the tenant(s) for the industrial portion of the Project are not yet identified, the County must make certain assumptions regarding the type and mix of light industrial uses that would likely occupy the proposed buildings. The DEIR should reflect a good faith effort at full disclosure by including as much information on the nature of operations as can be reasonably obtained. If such information is unavailable, the County should study a reasonable worst-case scenario (i.e., most impactful) so that a broad and diverse range of environmental impacts are included in the analysis.

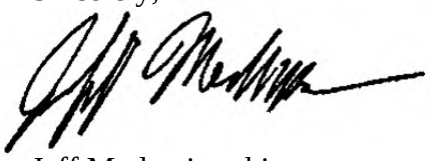
Public Health: The DEIR should also make all efforts to minimize air quality effects and likely health consequences to the greatest extent possible. In addition, we urge the County to adopt

quantitative thresholds that embody climate change's existential threat to humankind to determine the significance of the Project's GHG emissions.

Mitigation Measures: Finally, we encourage the County to incorporate modern technology in the mitigation measures and ensure that the measures are effective and enforceable. A Statement of Overriding Considerations should be considered only after ALL feasible mitigation measures are included in the MMRP.

Thank you for the opportunity to submit NOP comments. Again, CARE CA respectfully requests full analysis of the environmental impacts, feasible mitigation, and reasonable alternatives to the Project.

Sincerely,



Jeff Modrzejewski
Executive Director

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State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
Inland Deserts Region
3602 Inland Empire Boulevard, Suite C-220
Ontario, CA 91764
www.wildlife.ca.gov

GAVIN NEWSOM, Governor
CHARLTON H. BONHAM, Director

June 4, 2024
Sent via email.

County of San Bernardino, Land Use Services Department
Jon Braginton, Planner
385 North Arrowhead Avenue, First Floor
San Bernardino, California 92415
Jon.Braginton@lus.sbcounty.gov

Subject: Notice of Preparation of a Draft Environmental Impact Report
Electric Vehicle Charging Station and Logistics Facility
State Clearinghouse No. 2024050651

Dear Jon Braginton:

The California Department of Fish and Wildlife (CDFW) received a Notice of Preparation (NOP) of a Draft Environmental Impact Report (DEIR) from San Bernardino County (County) for the Electric Vehicle Charging Station and Logistics Facility Project (Project) pursuant the California Environmental Quality Act (CEQA) and CEQA Guidelines.[1]

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

CDFW ROLE

CDFW is California's Trustee Agency for fish and wildlife resources, and holds those resources in trust by statute for all the people of the State. (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a).) CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species. (*Id.*, § 1802.) Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

CDFW is also submitting comments as a Responsible Agency under CEQA. (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381.) CDFW expects that it may

1 CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

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need to exercise regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration regulatory authority. (Fish & G. Code, § 1600 et seq.) Likewise, to the extent implementation of the Project as proposed may result in "take" as defined by State law of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), the Project proponent may seek related take authorization as provided by the Fish and Game Code.

PROJECT DESCRIPTION SUMMARY

The Project proposes to construct an electric vehicle (EV) charging station for light duty/passenger vehicle and medium to heavy duty trucks and concrete tilt-up logistics facility on 99.85 acres. The EV charging station would include an up-to 15,000 square foot commercial building to provide ancillary uses (e.g. food, convenience market, restaurant), a truck wash, maintenance facility, and truck scales. The logistics facility would offer 1,341,432 square feet of warehouse space in three buildings. The Project is also proposing site improvements, including landscaping, gathering/amenity areas for logistics facility employees, parking, required utility facilities and upgrades, drainage facilities, and a buffer (e.g., landscaping, wall) at the Project's southern boundary.

Additionally, the Project would improve the east side of Lenwood Road to its ultimate half-width along the Project site's frontage including the construction of sidewalk, curb and gutter. This half section would contain two northbound travel lanes and ½ of a 12-foot center lane. The Project would add 6 feet of paving to the west half of Lenwood Road to accommodate the balance of the center striped median lane and would repave the existing southbound travel lane. In addition, the Project may install traffic light-controlled T-intersections, pocket and deceleration lanes along Lenwood Road pending review by County of San Bernardino Department of Public Works.

Discretionary approvals include a Countywide Plan amendment and a zoning amendment to change the land use designation from Rural Residential to Limited Industrial. The County would also need to issue a conditional use permit to cover the project site for the construction and operation of an electric vehicle charging station and logistics facility.

The Project is located in unincorporated San Bernardino County, within the City of Barstow's sphere of influence. The Project is located on the east side of Lenwood Road, 1.15 miles southwest of State Route 58 and 6 miles west of Interstate 40.

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COMMENTS AND RECOMMENDATIONS

CDFW offers the comments and recommendations below to assist the County in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources.

CDFW recommends that the forthcoming EIR address the following:

Assessment of Biological Resources

Section 15125(c) of the CEQA Guidelines states that knowledge of the regional setting of a project is critical to the assessment of environmental impacts and that special emphasis should be placed on environmental resources that are rare or unique to the region. To enable CDFW staff to adequately review and comment on the Project, the EIR should include a complete assessment of the flora and fauna within and adjacent to the Project footprint, with particular emphasis on identifying rare, threatened, endangered, and other sensitive species and their associated habitats.

The CDFW recommends that the EIR specifically include:

1. An assessment of the various habitat types located within the Project footprint, and a map that identifies the location of each habitat type. CDFW recommends that floristic, alliance- and/or association-based mapping and assessment be completed following The Manual of California Vegetation, second edition (Sawyer et al. 2009). Adjoining habitat areas should also be included in this assessment where site activities could lead to direct or indirect impacts offsite. Habitat mapping at the alliance level will help establish baseline vegetation conditions. The sensitivity of vegetation communities is ranked based on the NatureServe Conservation Status Assessments: Methodology for Assigning Ranks (Faber-Langendoen et al. 2012). Vegetation communities with state (S) ranks of S1 (very rare to threatened) to S3 (vulnerable) are considered sensitive and are to be addressed in the environmental review processes of CEQA and its equivalents.

2. A general biological inventory of the fish, amphibian, reptile, bird, and mammal species that are present or have the potential to be present within each habitat type onsite and within adjacent areas that could be affected by the Project. CDFW's California Natural Diversity Database (CNDDB) in Sacramento should be contacted at (916) 322-2493 or CNDDB@wildlife.ca.gov to obtain current information on any previously reported sensitive species and habitat, including Significant Natural Areas identified under Chapter 12 of the Fish and Game Code, in the vicinity of the proposed Project.

   Please note that CDFW's CNDDB is not exhaustive in terms of the data it houses, nor is it an absence database. CDFW recommends that it be used as a starting point

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in gathering information about the *potential presence* of species within the general area of the Project site.

3. A complete, *recent* inventory of rare, threatened, endangered, and other sensitive species located within the Project footprint and within offsite areas with the potential to be affected, including California Species of Special Concern (CSSC) and California Fully Protected Species (Fish and Game Code § 3511). Species to be addressed should include all those which meet the CEQA definition (CEQA Guidelines § 15380). The inventory should address seasonal variations in use of the Project area and should not be limited to resident species. Focused species-specific surveys, completed by a qualified biologist and conducted at the appropriate time of year and time of day when the sensitive species are active or otherwise identifiable, are required. Acceptable species-specific survey procedures should be developed in consultation with CDFW and the U.S. Fish and Wildlife Service, where necessary. Note that CDFW generally considers biological field assessments for wildlife to be valid for a one-year period, and assessments for rare plants may be considered valid for a period of up to three years. Some aspects of the proposed Project may warrant periodic updated surveys for certain sensitive taxa, particularly if the Project is proposed to occur over a protracted time frame, or in phases, or if surveys are completed during periods of drought.

4. A thorough, recent, floristic-based assessment of special status plants and natural communities, following CDFW's Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (see https://www.wildlife.ca.gov/Conservation/Plants).

   Special-status plant species include species listed as threatened, endangered, or candidate by CDFW and/or United Fish and Wildlife Service (USFWS) under the Federal Endangered Species Act and/or CESA; species designated as Sensitive by the Bureau of Land Management (BLM); species identified as Focus or Planning Species under the Desert Renewable Energy Conservation Plan (DRECP); species that have a California Rare Plant Rank (CRPR) of 1, 2, 3, or 4 (defined below under Native Plant Protection Act); and species otherwise protected in California or Nevada.

   Queries of publicly available datasets, such as the CNDDB, the CNPS Online Inventory of Rare and Endangered Plants, and the California Consortium of Herbaria, and a recent literature review should completed to develop a list of special-status plants with potential to occur in the Project site and surrounding habitat.

5. The EIR should incorporate analysis of wildlife movement to develop a baseline understanding of the areas where wildlife movement, including both seasonal migrations and post-natal dispersal, are most prevalent in order to identify species

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use and to aid in identifying criteria used to determine appropriate measures to minimize and mitigate Project impacts to wildlife connectivity.

6. The EIR should address impacts due to fencing around the Project limits. Fencing can impact the ability of species to pass through barriers created by roads, associated infrastructure, and railroad lines. Placement of fencing in the Project boundaries can impact wildlife passage. The EIR should evaluate the Project impacts of fencing on wildlife crossing and passage to reduce injury and mortality and so that wildlife is able to safely pass the Project's structures.

7. Information on the regional setting that is critical to an assessment of environmental impacts, with special emphasis on resources that are rare or unique to the region (CEQA Guidelines § 15125[c]).

8. The impacts of both lighting and noise from the continuous operation of the Project should be analyzed for impacts for both resident species and species that are attempting to move through the Project area for either part of seasonal migration or dispersal.

9. Cumulative impacts from lighting, noise, loss of habitat, fencing from this Project and nearby existing and proposed projects including the Barstow International Gateway Project should be analyzed for special status species, wildlife connectivity, and special status habitats.

10. An assessment of raven (*Corvus corax*) use in the Project area, specifically raven nesting and perching locations and existing human subsidies. As this Project will construct new infrastructure that could provide new perching locations and the creation of new subsidies from project elements, the County should address the Project's related direct/indirect and cumulative impacts due to raven subsidies, not limited to food subsidies but including nesting and perching subsidies that are known to promote raven population growth and allow ravens to occupy parts of the Mojave Desert that otherwise would not support them (Boarman et. al. 2006).

    Human subsidies include food and water from landfills and other sources of waste, reservoirs, sewage ponds, agricultural fields, feedlots, gutters, as well as perch, roost, and nest sites from transmission towers, distribution poles and lines, light posts, billboards, fences, freeway or railroad overpasses, abandoned vehicles, and buildings (Boarman 1993). Subsidies allow ravens to survive in the desert during summer and winter when prey and water resources are typically inactive or scarce.

    As this Project will construct new infrastructure, the impacts of raven subsides from the infrastructure for the extended time, should be considered as directly Project related.

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11. Species specific surveys for special status species that the Project footprint has the potential to support, including burrowing owl, Mohave ground squirrel, Mojave fringe-toed lizard, Swainson's hawk, Crotch's bumble bee, and Agassiz's desert tortoise.

    Burrowing Owl (*Athene cunicularia*)

    The proposed Project has the potential to provide suitable foraging and/or nesting habitat for burrowing owl. Take of individual burrowing owls and their nests is defined by Fish and Game Code section 86, and prohibited by sections 3503, 3503.5 and 3513. Take is defined in Fish and Game Code section 86 as "hunt, pursue, catch, capture or kill, or attempt to hunt, pursue, catch, capture or kill."

    CDFW recommends that County follow the recommendations and guidelines provided in the *Staff Report on Burrowing Owl Mitigation* (Department of Fish and Game, March 2012); available for download from CDFW's website: https://www.wildlife.ca.gov/conservation/survey-protocols. The Staff Report on Burrowing Owl Mitigation, specifies three steps for Project impact evaluations:

    a. A habitat assessment;
    b. Surveys; and
    c. An impact assessment

    As stated in the Staff Report on Burrowing Owl Mitigation, the three progressive steps are effective in evaluating whether a project will result in impacts to burrowing owls, and the information gained from the steps will inform any subsequent avoidance, minimization, and mitigation measures. Habitat assessments are conducted to evaluate the likelihood that a site supports burrowing owl. Burrowing owl surveys provide information needed to determine the potential effects of proposed projects and activities on burrowing owls, and to avoid take in accordance with Fish and Game Code sections 86, 3503, and 3503.5. Impact assessments evaluate the extent to which burrowing owls and their habitat may be impacted, directly or indirectly, on and within a reasonable distance of a proposed CEQA project activity or non-CEQA project.

    Within the 2012 Staff Report, the minimum habitat replacement recommendation was purposely excluded as it was shown to serve as a default, replacing any site-specific analysis and discounting the wide variation in natal area, home range, foraging area, and other factors influencing burrowing owls and burrowing owl population persistence in a particular area. It hypothesized that mitigation for permanent impacts to nesting, occupied, and satellite burrows and burrowing owl habitat should be on, adjacent or proximate to the impact site where possible and where habitat is sufficient to support burrowing owls present. If mitigation occurs offsite, it should include (a) permanent conservation of similar vegetation communities (grassland, scrublands, desert, urban, and agriculture) to provide for

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burrowing owl nesting, foraging, wintering, and dispersal (i.e., during breeding and non-breeding seasons) comparable to or better than that of the impact area, and (b) be sufficiently large acreage with the presence of fossorial mammals. Furthermore, the report noted that suitable mitigation lands should be based on a comparison of the habitat attributes of the impacted and conserved lands, including but not limited to: type and structure of habitat being impacted or conserved; density of burrowing owls in impacted and conserved habitat; and significance of impacted or conserved habitat to the species range-wide.

Mohave ground squirrel (*Xerospermophilus mohavensis*)

The proposed Project occurs within the range of Mohave ground squirrel (MGS), a state listed threatened species under the California Endangered Species Act (CESA). CDFW recommends that a qualified permitted biologist conduct protocol surveys for MGS following the methods described in the "Mohave Ground Squirrel Survey Guidelines" (CDFG 2023) during the appropriate survey season prior to Project implementation, including any vegetation- or ground-disturbing activities. Results of the MGS surveys are advised to be submitted to the CDFW. Please note MGS surveys are valid for one year and should be conducted within a year of the start of ground-disturbing activities.

If MGS are found within the Project area during surveys, CDFW recommends the County require species-specific mitigation to offset impacts be included in the EIR. Additionally, measures to avoid, minimize, and monitor MGS should be incorporated into the EIR. Additionally, if MGS are found within the Project area during surveys or construction activities, and complete avoidance is not possible CDFW recommends the County and/or Project proponent acquire a CESA Incidental Take Permit (ITP) prior to any vegetation- or ground-disturbing activities. Any take of MGS without take authorization would be a violation of Fish and Game Code section 2080.

Swainson's hawk (*Buteo swainsoni*)

The proposed Project occurs within the range of Swainson's hawk (SWHA), a state listed threatened species under the California Endangered Species Act (CESA). SWHA are known to travel up to 18 miles to forage (Estep 1989). Any SWHA in known nesting trees within that range may utilize the Project site for foraging. Therefore, CDFW recommends protocol surveys for SWHA be conducted by a qualified biologist with knowledge of SWHA natural history and behaviors, following the survey methods developed by the Swainson's Hawk Technical Advisory Committee (SWHA TAC 2000). The protocol survey information should be included as part of the biological technical studies conducted in support of the EIR.

If SWHA are found to utilize the Project area during surveys, CDFW recommends the County require species-specific mitigation to offset impacts be included in the

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EIR. Compensations for the loss of SWHA foraging habitat are described in the Staff Report Regarding Mitigation for Impacts to Swainson's Hawks (California Department of Fish and Game 1994). The report recommends that mitigation for habitat loss occur within a minimum distance of 10 miles from known nest sites. CDFW has the following recommendations based on the Staff Report:

- For projects within 1 mile of an active nest tree, a minimum of one acre of habitat management (HM) land for each acre of development is advised.
- For projects within 5 miles of an active nest but greater than 1 mile, a minimum of 0.75 acres of HM land for each acre of development is advised.
- For projects within 10 miles of an active nest tree but greater than 5 miles from an active nest tree, a minimum of 0.5 acres of HM land for each acre of development is advised.

Additionally, if SWHA are found to utilize the Project area for nesting or foraging during surveys or construction activities, and complete avoidance is not possible CDFW recommends the County and/or Project proponent acquire a CESA Incidental Take Permit (ITP) prior to any vegetation- or ground-disturbing activities. Any take of Swainson's hawk without take authorization would be a violation of Fish and Game Code section 2080.

Mojave fringe-toed lizard (*Uma scoparia*)

The proposed Project occurs within the range of Mojave fringe-toed lizard, a California species of special concern. The Project is located on the western edge of the range of the species. CDFW recommends that the County analyze the impacts of the proposed project to the species. Typically, peripheral populations have the potential to maintain substantial genetic variation allowing the population to adapt to environmental conditions at the edge of the species' range. This increases the conservation value for this population and the impact analysis should consider the impacts to the genetic diversity of this species and the specific population being impacted.

The EIR should also address and provide specific details how the project will directly impact Mojave fringe-toed lizard by either moving individuals out of harm's way and/or translocation to adjacent or further suitable occupied habitat. CDFW recommends the County and/or project proponent reach out and consult on translocation methods and locations.

Agassiz's desert tortoise (*Gopherus agassizii*)

The proposed Project occurs within the range of Agassiz's desert tortoise; a state and federally listed threatened species. CDFW recommends that the County complete protocol level surveys over all areas (i.e., 100 percent coverage) proposed

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to be directly or indirectly affected by the Project, using appropriately qualified biologists, following the USFWS Desert Tortoise Field Manual, accessible here: https://www.fws.gov/nevada/desert_tortoise/documents/field_manual/Desert-Tortoise-Field-Manual.pdf. To reduce the likelihood of nonconcurrence with proposed surveys, methodology, and qualifications of biologists, CDFW recommends working with the USFWS and CDFW concurrently to ensure a consistent and adequate approach to planning your work (USFWS, 2018).

CDFW recommends that biologists retained to complete desert tortoise protocol level surveys submit their qualifications to CDFW and the USFWS prior to initiation of surveys. Should the County desire CDFW to pre-approve the qualifications of biologists conducting protocol level desert tortoise surveys, CDFW requests information by provided on the Desert Tortoise Authorized Biologist Qualifications Form (Section 3.2) of the USFWS Desert Tortoise Field Manual for all biologists participating in survey efforts to the following email address: Christopher.Bill@wildlife.ca.gov.

If desert tortoise are found within the Project area during surveys or construction activities, and complete avoidance is not possible CDFW recommends the County and/or Project proponent acquire a State ITP prior to any vegetation- or ground-disturbing activities. Any take of desert tortoise without take authorization would be a violation of Fish and Game Code section 2080.

Crotch's Bumble Bee (Bombus crotchii)

Crotch's bumble bee (CBB) have the potential to occur within the Project site. CBB occurs primarily in California, including the Mediterranean region, Pacific Coast, Western Desert, Great Valley and adjacent to foothills through most of southwestern California (Williams et. al 2014). CBB are generalist foragers and have been reported visiting a wide variety of flower plants. The plant families most commonly associated with CBB observations or collections from California include Fabaceae, Apocynaceae, Asteraceae, Lamiaceae, Boraginaceae and Asclepiadaceae. Ground disturbance (e.g., trenching, excavating, grading, soil compaction, burrow loss, and earth-moving activities) and vegetation removal have the potential to destroy CBB burrows. Additionally, these activities create elevated levels of noise, human activity, dust, ground vibrations, and vegetation disturbance. Suitable CBB habitat includes areas of grasslands and upland scrub that contain requisite habitat elements, such as small mammal burrows and it appears per Google aerial images that there is suitable habitat within and surrounding the Project site.

CBB primarily nest in late February through late October underground in abandoned small mammal burrows but may also nest under perennial bunch grasses or thatched annual grasses, under brush-piles, in old bird nests, and in dead trees or hollow logs (Williams et al., 2014; Hatfield et al., 2015). Overwintering sites utilized

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by CBB mated queens include soft, disturbed soil (Goulson, 2010), or under leaf litter or other debris (Williams et al., 2014). Therefore, potential ground disturbance and/or vegetation removal associated with Project implementation may significantly impact local CBB populations.

CBB was once common throughout most of central and southern California; however, it now appears to be absent from most of it (Hatfield et al., 2014). Analyses by the Xerces Society et al. (2018) suggest there have been sharp declines in relative abundance by 98% and persistence by 80% over the last ten years.

CDFW recommends a qualified biologist conduct a habitat assessment as part of the biological technical studies conducted in support of the DEIR to determine if the Project site or its immediate vicinity contain habitat suitable to support CBB. Potential nesting sites, which include all small mammal burrows, perennial bunch grasses, thatched annual grasses, brush piles, old bird nests, dead trees, and hollow logs would need to be documented as part of the assessment. If potentially suitable habitat is identified, CDFW recommends that a qualified biologist conduct focused surveys for CBB, and their requisite habitat features following the methodology outlined in the Survey Considerations for California Endangered Species Act Candidate Bumble Bee Species (CDFW, 2023b), as part of the biological technical studies conducted in support of the CEQA document. Any detection of CBB prior to or during Project implementation warrants consultation with CDFW to discuss how to avoid take. If take cannot be avoided, take authorization is required prior to initiating ground-disturbing activities to comply with CESA. Take authorization would occur through issuance of an ITP by CDFW, pursuant to Fish and Game Code section 2081 subdivision (b).

While surveys conducted using these flight seasons/active periods as a guide are considered the most effective and protective to the species, surveys may fail to detect the presence of CBB. Therefore, it is reasonable to assume presence and rely on habitat as an indicator of presence in lieu of, or in addition to, surveys. CBB moves nests sites each year; therefore, surveys should be conducted each year that Project activities will occur. Even if surveys from a particular annual survey failed to detect CBB, Project proponents should perform a full round of surveys each year that Project activities will occur for the life of the Project or assume presence and obtain an ITP. If CBB are found within the Project area during surveys or construction activities, and complete avoidance is not possible CDFW recommends the County and/or Project proponent acquire a State ITP prior to any vegetation- or ground-disturbing activities. Any take of CBB without take authorization would be a violation of Fish and Game Code section 2080.

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Desert kit fox (*Vulpes macrotis*)

The proposed Project occurs within the range of desert kit fox, a protected species pursuant to Title 14 of the California Code of Regulations Section 460, which prohibits the take of the species at any time. CDFW recommends surveys, following CDFW-approved protocols, be conducted over all areas proposed to be directly or indirectly affected by the Project to determine presence/absence and numbers of desert kit fox, and that this information be included in the EIR.

If desert kit fox is found, or have the potential to occupy the Project site, CDFW recommends the County require species-specific mitigation to offset impacts and avoidance, minimization, and monitoring measures aimed at avoiding direct impacts to the desert kit fox be incorporated into the EIR. Avoidance and minimization measures should include pre-activity surveys following CDFW-approved survey methods, including procedures used to classify identified dens as inactive dens, active and potentially active dens, and active natal dens, and methods utilized to quantify and locate single or paired animals that would need to be avoided or passively relocated, and the burrows or burrow complexes that would need to be collapsed to prevent re-occupancy. The measures should also include detailed monitoring requirements and methods of exclusion/passive relocation to be conducted, and methods and timing of den excavation.

American Badger (Taxidea taxus)

The proposed Project occurs within the range of the American badger, a California species of special concern. CDFW recommends the County complete surveys for American badger over the Project area proposed to be directly or indirectly affected by the Project and that the results of such surveys be included in the EIR, along with avoidance, minimization, and mitigation measures, if appropriate.

If American badger are found, or have the potential to occupy the Project site, CDFW recommends the County require species specific mitigation to offset impacts and avoidance, minimization and monitoring measures aimed at avoiding direct impacts to American badger be incorporated into the EIR. Avoidance and minimization measures should include pre-activity surveys following CDFW-approved survey methods, including procedures used to classify identified dens as inactive dens, active and potentially active dens, and active natal dens, and methods utilized to quantify and locate single or paired animals that would need to be avoided or passively relocated, and the burrows or burrow complexes that would need to be collapsed to prevent re-occupancy. The measures should also include detailed monitoring requirements and methods of exclusion/passive relocation to be conducted, and methods and timing of den excavation.

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Ring-tailed cat (*Bassariscus astutus*)

The proposed Project occurs within the range of the ring-tailed cat, a California species of special concern and fully protected species. CDFW recommends the County complete surveys for ring-tailed cat over the Project area proposed to be directly or indirectly affected by the Project and that the results of such survey be included in the EIR, along with measures to avoid all impacts to the species.

If ring-tailed cat are found, or has the potential to occupy the Project site, CDFW recommends the County require species-specific mitigation to avoid impacts to the ring-tailed cat be incorporated into the EIR. Avoidance measures should include pre-activity surveys following CDFW-approved survey methods, including procedures used to classify identified dens as inactive dens, active and potentially active dens, and active natal dens, and methods utilized to quantify and locate single or paired animals that would need to be avoided.

Western Joshua Tree (*Yucca brevifolia*).

Based on the Project location, there may be western Joshua trees on the Project site. In order for the Project to be completed as proposed, western Joshua trees would need to be removed. WJT is a candidate threatened species under CESA. Under CESA, species classified as a candidate species are afforded the same protection as CESA-listed species. Take of any CESA listed species is prohibited except as authorized by state law (Fish and Game Code, §§ 2080 & 2085). The California state legislature has enacted the Western Joshua Tree Conservation Act (WJTCA) which aims to provide protection of WJT while removing some of the barriers faced by developers when working on or adjacent to sites where the species is present.

For unavoidable impacts, CDFW recommends consultation with CDFW and obtaining appropriate take authorization under CESA. Take authorization may be obtained through a traditional Incidental Take Permit or through a WJTCA permit. Please visit CDFW's California Endangered Species Act (CESA) Permits web page for more information. For more information on the WJTCA, please visit the CDFW Western Joshua Tree Conservation Efforts and Permitting website at https://wildlife.ca.gov/Conservation/Environmental-Review/WJT..

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Analysis of Direct, Indirect, and Cumulative Impacts to Biological Resources

1. The EIR should provide a thorough discussion of the direct, indirect, and cumulative impacts expected to adversely affect biological resources as a result of the Project (including the plan's land use designations, policies and programs).

2. The EIR should include a discussion of potential impacts from lighting, noise, operations and maintenance activities, exotic and/or invasive species, and drainage. The latter subject should address Project-related changes on drainage patterns and water quality within, upstream, and downstream of the Project site, including: volume, velocity, and frequency of existing and post-Project surface flows; polluted runoff; soil erosion and/or sedimentation in streams and water bodies; and post-Project fate of runoff from the Project site.

3. A discussion of potential indirect Project impacts on biological resources should be included in the EIR, including resources in areas adjacent to the Project footprint, such as nearby public lands (e.g. Bureau of Land Management lands, State and County Parks, etc.), open space, adjacent natural habitats, riparian ecosystems, wildlife corridors, and any designated and/or proposed reserve or mitigation lands.

   Additionally, the EIR should discuss Project impacts to wildlife connectivity on both a regional and local scale for both rare and common species. Impacts to wildlife connectivity are expected to be from the physical location and size of the project, noise generated by both construction and operation of the Project, and lighting needed for Project operation.

4. A cumulative effects analysis developed as described under CEQA Guidelines section 15130. The EIR should analyze the cumulative effects of the plan's land use designations, policies and programs on the environment. Please include all potential direct and indirect Project related impacts to riparian areas, wetlands, wildlife corridors or wildlife movement areas, aquatic habitats, sensitive species and other sensitive habitats, open lands, open space, and adjacent natural habitats in the cumulative effects analysis. General and specific plans, as well as past, present, and anticipated future projects (including the Barstow Internation Gateway Project), should be analyzed relative to their impacts on similar plant communities and wildlife habitats.

5. A discussion of potential direct, indirect and cumulative impacts due to the potential invasion of non-native plants that can aggressively colonize newly disturbed Project areas and adjacent habitats and can grow to dominate native plant communities if uncontrolled. The most numerous and widespread include Saharan mustard (*Brassica tournefortii*), redstem filaree (*Erodium cicutarium*), Russian thistle (*Salsola tragus*), common Mediterranean grass (*Schismus barbatus*), stinknet (*Oncosiphon piluliferum*) and London rocket (*Sisymbrium irio*).

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Alternatives Analysis

CDFW recommends the DEIR describe and analyze a range of reasonable alternatives to the Project that are potentially feasible, would "feasibly attain most of the basic objectives of the Project," and would avoid or substantially lessen any of the Project's significant effects (CEQA Guidelines § 15126.6[a]). The alternatives analysis should also evaluate a "no project" alternative (CEQA Guidelines § 15126.6[e]).

Mitigation Measures for Project Impacts to Biological Resources

The EIR should identify mitigation measures and alternatives that are appropriate and adequate to avoid or minimize potential impacts, to the extent feasible. The County should assess all direct, indirect, and cumulative impacts that are expected to occur as a result of the implementation of the Project and its long-term operation and maintenance. When proposing measures to avoid, minimize, or mitigate impacts, CDFW recommends consideration of the following:

1. *Fully Protected Species*: Fully protected species may not be taken or possessed at any time. Project activities described in the EIR should be designed to completely avoid any fully protected species that have the potential to be present within or adjacent to the Project area. CDFW also recommends that the EIR fully analyze potential adverse impacts to fully protected species due to habitat modification, loss of foraging habitat, and/or interruption of migratory and breeding behaviors. CDFW recommends that the Lead Agency include in the analysis how appropriate avoidance, minimization, and mitigation measures will reduce indirect impacts to fully protected species.

2. *Sensitive Plant Communities*: CDFW considers sensitive plant communities to be imperiled habitats having both local and regional significance. Plant communities, alliances, and associations with a statewide ranking of S-1, S-2, and S-3 should be considered sensitive and declining at the local and regional level. These ranks can be obtained by querying the CNDDB and are included in *The Manual of California Vegetation* (Sawyer et al. 2009). The EIR should include measures to fully avoid and otherwise protect sensitive plant communities from Project-related direct and indirect impacts.

3. *California Species of Special Concern* (CSSC): CSSC status applies to animals generally not listed under the federal Endangered Species Act or the CESA, but which nonetheless are declining at a rate that could result in listing, or historically occurred in low numbers and known threats to their persistence currently exist. CSSCs should be considered during the environmental review process. CSSC that have the potential or have been documented to occur within or adjacent to the Project area, including, but not limited to: burrowing owl and Mojave fringed-toed lizard.

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4. *Mojave Fringe-Toed Lizard.* The population of Mojave fringe-toed lizard is a peripheral western edge of the species range. Avoidance, minimization, and mitigation measures to preserve the genetic diversity of this population should be proposed to mitigate for the impacts to the current footprint of this population.

5. *Wildlife Connectivity.* Construction of the Project will directly impact the Mojave River/Barstow/Camp Cady Linkage identified in Penrod et al (2001). Also, the Project site has been identified by CDFW in its Areas of Conservation Emphasis (CDFW, 2024) mapping as a Conservation Planning Linkage. Spencer, et al (2010) also identified an essential habitat area that overlaps with the Project area. CDFW recommends that the Lead Agency include in the analysis how appropriate avoidance, minimization, and mitigation measures will reduce impacts to wildlife connectivity .

6. *Mitigation*: CDFW considers adverse Project-related impacts to sensitive species and habitats to be significant to both local and regional ecosystems, and the EIR should include mitigation measures for adverse Project-related impacts to these resources. Mitigation measures should emphasize avoidance and reduction of Project impacts. For unavoidable impacts, onsite habitat restoration and/or enhancement, and preservation should be evaluated and discussed in detail. Where habitat preservation is not available onsite, offsite land acquisition, management, and preservation should be evaluated and discussed in detail.

   The EIR should include measures to perpetually protect the targeted habitat values within mitigation areas from direct and indirect adverse impacts in order to meet mitigation objectives to offset Project-induced qualitative and quantitative losses of biological values. Specific issues that should be addressed include restrictions on access, proposed land dedications, long-term monitoring and management programs, control of illegal dumping, water pollution, increased human intrusion, etc.

   If sensitive species and/or their habitat may be impacted from the Project, CDFW recommends the inclusion of specific mitigation in the EIR. CEQA Guidelines section 15126.4, subdivision (a)(1)(8) states that formulation of feasible mitigation measures should not be deferred until some future date. The Court of Appeal in *San Joaquin Raptor Rescue Center* v. *County* of *Merced* (2007) 149 Cal.App.4th 645 struck down mitigation measures which required formulating management plans developed in consultation with State and Federal wildlife agencies after Project approval. Courts have also repeatedly not supported conclusions that impacts are mitigable when essential studies, and therefore impact assessments, are incomplete *(Sundstrom* v. *County* of *Mendocino* (1988) 202 Cal. App. 3d. 296; *Gentry* v. *City* of *Murrieta (1995)* 36 Cal. App. 4th 1359; *Endangered Habitat League, Inc.* v. *County* of *Orange* (2005) 131 Cal. App. 4th 777).

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7. CDFW recommends that the EIR specify mitigation that is roughly proportional to the level of impacts, in accordance with the provisions of CEQA (CEQA Guidelines, §§ 15126.4(a)(4)(B), 15064, 15065, and 16355). The mitigation should provide long-term conservation value for the suite of species and habitat being impacted by the Project. Furthermore, in order for mitigation measures to be effective, they need to be specific, enforceable, and feasible actions that will improve environmental conditions.

8. *Nesting Birds and Migratory Bird Treaty Act:* Please note that it is the Project proponent's responsibility to comply with all applicable laws related to nesting birds and birds of prey. Fish and Game Code sections 3503, 3503.5, and 3513 afford protective measures as follows: Fish and Game Code section 3503 makes it unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by Fish and Game Code or any regulation made pursuant thereto. Fish and Game Code section 3503.5 makes it unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by Fish and Game Code or any regulation adopted pursuant thereto. Fish and Game Code section 3513 makes it unlawful to take or possess any migratory nongame bird except as provided by the rules and regulations adopted by the Secretary of the Interior under provisions of the Migratory Bird Treaty Act of 1918, as amended (16 U.S.C. § 703 et seq.).

   CDFW recommends that the EIR include the results of avian surveys, as well as specific avoidance and minimization measures to ensure that impacts to nesting birds do not occur. Project-specific avoidance and minimization measures may include, but not be limited to: Project phasing and timing, monitoring of Project-related noise (where applicable), sound walls, and buffers, where appropriate. The EIR should also include specific avoidance and minimization measures that will be implemented should a nest be located within the Project site. If pre-construction surveys are proposed in the EIR, the CDFW recommends that they be required no more than three (3) days prior to vegetation clearing or ground disturbance activities, as instances of nesting could be missed if surveys are conducted sooner.

9. *Moving out of Harm's Way:* To avoid direct mortality, CDFW recommends that the lead agency condition the EIR to require that a CDFW-approved qualified biologist be retained to be onsite prior to and during all ground- and habitat-disturbing activities to move out of harm's way special status species or other wildlife of low or limited mobility that would otherwise be injured or killed from Project-related activities. Movement of wildlife out of harm's way should be limited to only those individuals that would otherwise by injured or killed, and individuals should be moved only as far a necessary to ensure their safety (i.e., CDFW does not recommend relocation to other areas). Furthermore, it should be noted that the temporary

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relocation of onsite wildlife does not constitute effective mitigation for the purposes of offsetting Project impacts associated with habitat loss.

10. *Translocation of Species*: CDFW generally does not support the use of relocation, salvage, and/or transplantation as mitigation for impacts to rare, threatened, or endangered species as studies have shown that these efforts are experimental in nature and largely unsuccessful.

California Endangered Species Act

CDFW is responsible for ensuring appropriate conservation of fish and wildlife resources including threatened, endangered, and/or candidate plant and animal species, pursuant to CESA. CDFW recommends that a CESA ITP be obtained if the Project has the potential to result in "take" (California Fish and Game Code Section 86 defines "take" as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill") of State-listed CESA species, either through construction or over the life of the Project. It is the policy of CESA to conserve, protect, enhance, and restore State-listed CESA species and their habitats.

CDFW encourages early consultation, as significant modification to the proposed Project and avoidance, minimization, and mitigation measures may be necessary to obtain a CESA ITP. CDFW must comply with CEQA for issuance of a CESA ITP. CDFW therefore recommends that the EIR addresses all Project impacts to listed species and specify a mitigation monitoring and reporting program that will meet the requirements of CESA.

Based on review of CNDDB, and/or knowledge of the Project site/vicinity/general area, CDFW is aware that the following CESA-listed species have the potential to occur onsite/have previously been reported onsite: Desert tortoise (*Gopherus agassizii*), Swainson's Hawk (*Buteo swainsoni*), Crotch's bumble bee (*Bombus crotchii*), and Mojave ground squirrel (*Xerospermophilus mohavensis*).

Lake and Streambed Alteration Program

Based on review of material submitted with the NOP and review of aerial photography drainage features traverse the site. Based on the Project plans included in the NOP, it is likely that the Project applicant will need to notify CDFW per Fish and Game Code section 1602. Fish and Game Code section 1602 requires an entity to notify CDFW prior to commencing any activity that may do one or more of the following: Substantially divert or obstruct the natural flow of any river, stream or lake; Substantially change or use any material from the bed, channel or bank of any river, stream, or lake; or Deposit debris, waste or other materials that could pass into any river, stream or lake. Please note that "any river, stream or lake" includes those that are episodic (i.e., those that are dry for periods of time) as well as those that are perennial (i.e., those that flow year-

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round). This includes ephemeral streams, desert washes, and watercourses with a subsurface flow.

Upon receipt of a complete notification, CDFW determines if the proposed Project activities may substantially adversely affect existing fish and wildlife resources and whether a Lake and Streambed Alteration (LSA) Agreement is required. An LSA Agreement includes measures necessary to protect existing fish and wildlife resources. CDFW may suggest ways to modify your Project that would eliminate or reduce harmful impacts to fish and wildlife resources.

CDFW's issuance of an LSA Agreement is a "project" subject to CEQA (see Pub. Resources Code 21065). To facilitate issuance of an LSA Agreement, if necessary, the EIR should fully identify the potential impacts to the lake, stream, or riparian resources, and provide adequate avoidance, mitigation, and monitoring and reporting commitments. Early consultation with CDFW is recommended, since modification of the proposed Project may be required to avoid or reduce impacts to fish and wildlife resources. To submit a Lake or Streambed Alteration notification package, please go to https://wildlife.ca.gov/Conservation/Environmental-Review/EPIMS.

ADDITIONAL COMMENTS AND RECOMMENDATIONS

To ameliorate the water demands of this Project, CDFW recommends incorporation of water-wise concepts in Project landscape design plans. In particular, CDFW recommends xeriscaping with locally native California species, and installing water-efficient and targeted irrigation systems (such as drip irrigation). Local water agencies/districts, and resource conservation districts in your area may be able to provide information on plant nurseries that carry locally native species, and some facilities display drought-tolerant locally native species demonstration gardens. Information on drought-tolerant landscaping and water-efficient irrigation systems is available on California's Save our Water website: http://saveourwater.com/what-you-can-do/tips/landscaping/

ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subd. (e).) Accordingly, please report any special status species and natural communities detected during Project surveys to the California Natural Diversity Database (CNDDB). Information can be submitted online or via completion of the CNDDB field survey form at the following link: https://wildlife.ca.gov/Data/CNDDB/Submitting-Data. The completed form can be mailed electronically to CNDDB at the following email address: CNDDB@wildlife.ca.gov. The

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types of information reported to CNDDB can be found at the following link: https://wildlife.ca.gov/Data/CNDDB/Plants-and-Animals.

FILING FEES

The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the fee is required in order for the underlying project approval to be operative, vested, and final. (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089.)

CONCLUSION

CDFW appreciates the opportunity to comment on the NOP of a EIR for the Electric Vehicle Charging Station and Logistics Facility Project (SCH No. 2024050651) and recommends that the County of San Bernardino address CDFW's comments and concerns in the forthcoming EIR. If you should have any questions pertaining to the comments provided in this letter, please contact Jason Bill, Senior Environmental Scientist, Specialist, at (909) 549-5878or at Christopher.Bill@wildlife.ca.gov.

Sincerely,

DocuSigned by:
Alisa Ellsworth
84FBB8273E4C480...
Alisa Ellsworth
Environmental Program Manager

ec: Brandy Wood, Senior Environmental Scientist, Supervisor
Inland Deserts Region
Brandy.Wood@wildlife.ca.gov

Office of Planning and Research, State Clearinghouse, Sacramento
state.clearinghouse@opr.ca.gov

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From: Betsitty <Betsitty@crit-nsn.gov>
Sent: Thursday, May 30, 2024 9:32 AM
To: Braginton, Jon <Jon.Braginton@lus.sbcounty.gov>
Subject: Notice of opportunity to consult - AB 52 - zone amendment of the land use category from Rural Living to Limited Industrial 0497-142-03; 0497-142-04; 0497-142-14; 0497-142-15; 3rd supervisorial district formerly 1st project number proj-2023-00108.

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you can confirm the sender and know the content is safe.

Dear: Jon Braginton, Planner

The Colorado River Indian Tribes' Tribal Historic Preservation Office ("CRIT THPO") has received your letter dated April 18 2024, received April 25, 2024 - regarding AB 52 -the notice to consult on a zone amendment of the land use category from Rural Living (RL) to Limited Industrial (LI) project number proj-2023-00108.

As a preliminary matter, the Colorado River Indian Tribes are a federally recognized Indian tribe comprised of over 4,200 members belonging to the Mohave, Chemehuevi, Hopi and Navajo Tribes. The almost 300,000-acre Colorado River Indian Reservation sits astride the Colorado River between Blythe, California and Parker, Arizona. The ancestral homelands of the Tribe's members, however, extend far beyond the Reservation boundaries. Significant portions of public and private lands in California, Arizona and Nevada were occupied by the ancestors of the Colorado River Indian Tribes' Mohave and Chemehuevi members since time immemorial. These landscapes remain imbued with substantial cultural, spiritual and religious significance for the Tribes' current members and future generations. For this reason, we have a strong interest in ensuring that potential cultural resource impacts are adequately considered and mitigated.

In particular, the Colorado River Indian Tribes are concerned about the removal of artifacts from this area and corresponding destruction of the Tribes' footprint on this landscape. As such, the Tribes request that all prehistoric cultural resources, including both known and yet-to-be-discovered sites, be avoided if feasible. If avoidance of the site is infeasible, then the Tribes request that the resources be left in-situ or reburied in a nearby area, after consultation. This language should be incorporated into enforceable mitigation measures.

In addition, we respond as follows: The Colorado River Indian Tribes do not have any specific comment on the proposed project and instead defer to the comments of other affiliated tribes.

Thank you for your consideration. Please contact the undersigned if you have any questions or concerns.

Sincerely,

Bryan Etsitty, Director

Tribal Historic Preservation Office
COLORADO RIVER INDIAN TRIBES
26600 Mohave Road
Parker, AZ 85344
Telephone: (928)669-5822
Fax: (928) 669-5843

DESERT TORTOISE COUNCIL
3807 Sierra Highway #6-4514
Acton, CA 93510
www.deserttortoise.org
eac@deserttortoise.org

Via email only

Date: 14 June 2024

To: Mr. Jon Braginton, Planner
County of San Bernardino, Land Use Services Department
Attn: Jon Braginton, Planner
385 North Arrowhead Avenue, First Floor San Bernardino, CA 92415
Email: Jon.Braginton@lus.sbcounty.gov

Re: Notice of Preparation (NOP) for an Environmental Impact Report for Electric Vehicle Charging Station and Logistics Facility in Lenwood, San Bernardino Co, CA (APNs 049-714-203; 049-714-204; 049-714-214; and 049-714-215)

Dear Mr. Braginton,

The Desert Tortoise Council (Council) is a non-profit organization comprised of hundreds of professionals and laypersons who share a common concern for wild desert tortoises and a commitment to advancing the public's understanding of desert tortoise species. Established in 1975 to promote conservation of tortoises in the deserts of the southwestern United States and Mexico, the Council routinely provides information and other forms of assistance to individuals, organizations, and regulatory agencies on matters potentially affecting desert tortoises within their geographic ranges.

Both our physical and email addresses are provided above in our letterhead for your use when providing future correspondence to us. When given a choice, we prefer to receive emails for future correspondence, as mail delivered via the U.S. Postal Service may take several days to be delivered. Email is an "environmentally friendlier way" of receiving correspondence and documents rather than "snail mail."

The Mojave desert tortoise is among the top 50 species on the list of the world's most endangered tortoises and freshwater turtles. The International Union for Conservation of Nature's (IUCN) Species Survival Commission, Tortoise and Freshwater Turtle Specialist Group, now considers the Mojave desert tortoise to be Critically Endangered (Berry et al. 2021), "… based on population reduction (decreasing density), habitat loss of over 80% over three generations (90 years), including past reductions and predicted future declines, as well as the effects of disease (upper respiratory tract disease/mycoplasmosis). *Gopherus agassizii* (sensu stricto) comprises tortoises in

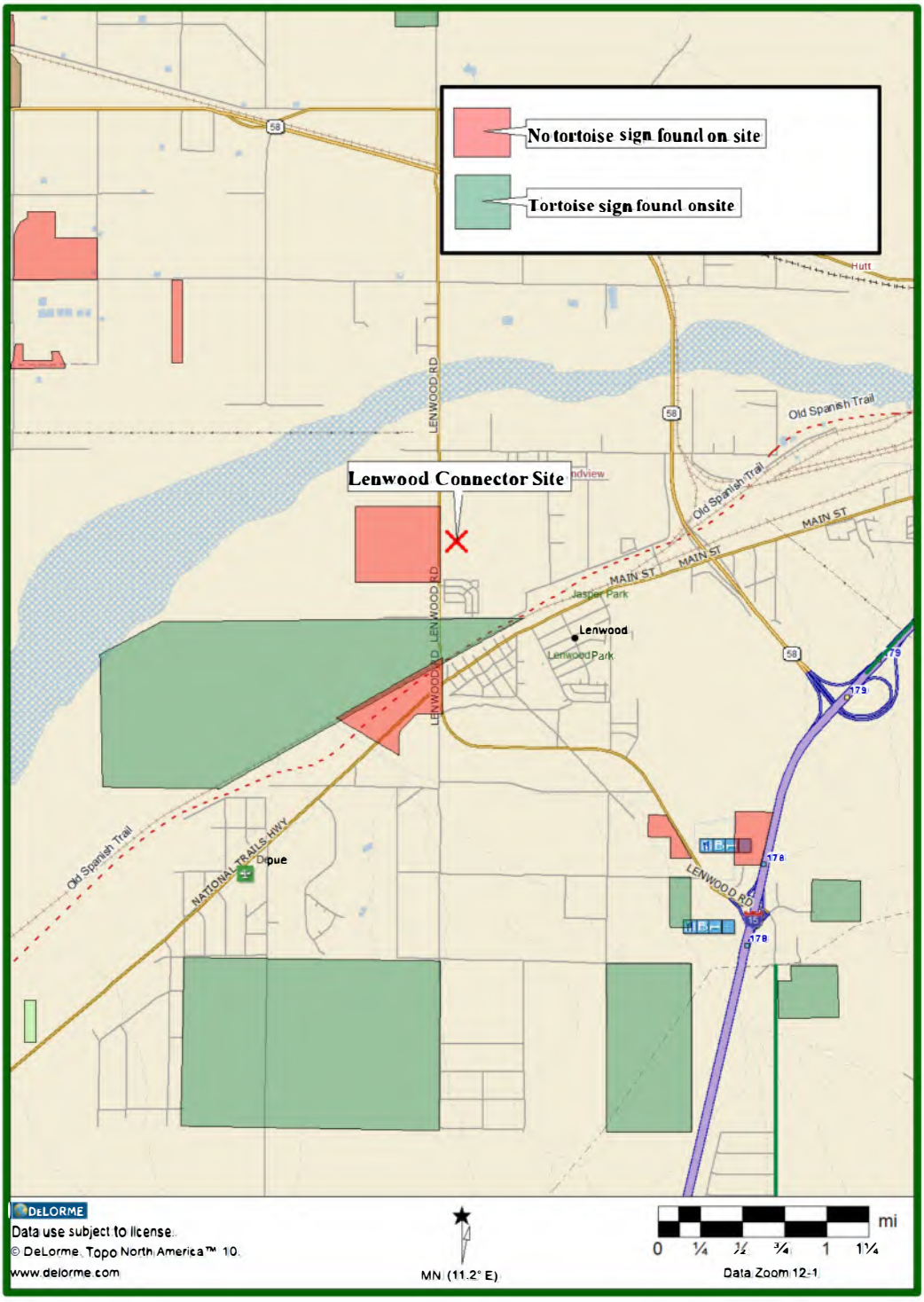
the most well-studied 30% of the larger range; this portion of the original range has seen the most human impacts and is where the largest past population losses have been documented. A recent rigorous rangewide population reassessment of *G. agassizii* (sensu stricto) has demonstrated continued adult population and density declines of about 90% over three generations (two in the past and one ongoing) in four of the five *G. agassizii* recovery units and inadequate recruitment with decreasing percentages of juveniles in all five recovery units."

This status, in part, prompted the Council to join Defenders of Wildlife and Desert Tortoise Preserve Committee (Defenders of Wildlife et al. 2020) to petition the California Fish and Game Commission in March 2020 to elevate the listing of the Mojave desert tortoise from Threatened to Endangered in California. In its status review, California Department of Fish and Wildlife (CDFW) (2024a) stated: "At its public meeting on October 14, 2020, the Commission considered the petition, and based in part on the Department's [CDFW] petition evaluation and recommendation, found sufficient information exists to indicate the petitioned action may be warranted and accepted the petition for consideration. The Commission's decision initiated this status review to inform the Commission's decision on whether the change in status is warranted."

Importantly, in their April 2024 meeting, the California Fish and Game Commission voted unanimously to uplist the tortoise from threatened to endangered under the California Endangered Species Act based on the scientific data provided on the species' status, declining trend, numerous threats, and lack of effective recovery implementation and land management.

The following project description is given in the County's notice of preparation, dated May 2024: "The project site is located in unincorporated San Bernardino County, California, within the City of Barstow Sphere of Influence. The site is located on Lenwood Road approximately 2.4 miles northwest of Interstate 15 (I-15), 1.15 miles southwest of State Route 58, and approximately 6 miles west of I-40 (Figure 1, Project Location). The project site consists of four vacant and undeveloped parcels (Figure 2, Project Area). The project site is bordered to the south by the existing High Desert Estates subdivision, to the east and west by undeveloped land, and to the north by residences, as shown on Figure 2. The Burlington Northern Santa Fe (BNSF) owned railway line is located south of the project site and runs east-west, relatively parallel to I-15."

The site is located in an area where desert tortoises may occur, therefore it is essential that tortoise protocol surveys (USFWS 2019) be performed throughout the site. One of our members has been performing tortoise surveys in the region for 35 years. In the following map, red polygons depict sites where no tortoise sign was found and green polygons denote sites where tortoise sign has been found. Although no tortoise sign was found on the 40-acre site immediately west of the site, tortoise sign has been found within a mile of the site to the south.



Formal protocol surveys for Mojave desert tortoise (USFWS 2019) must be conducted at the proper times of year. Because USFWS (2009) and CDFW require only experienced biologists to perform protocol surveys, USFWS and CDFW biologists should review surveyors' credentials prior to initiating the surveys. If any tortoise sign is found, the project proponent should coordinate with USFWS and CDFW to determine whether "take" under the Federal Endangered Species Act (FESA) or California Endangered Species Act (CESA) is likely to occur from construction, use, and maintenance of the proposed project. If tortoises are present, the project proponent must obtain a Section 10(a)(1)(B) incidental take permit for private lands, a biological opinion under Section 7(a)(2) from the USFWS for activities on federal lands/actions, and in California, a Section 2081 incidental take permit from the CDFW prior to conducting any ground disturbance.

To determine the full extent of impacts to tortoises and to facilitate compliance with the FESA and CESA, authorized biologist(s) should consult with the USFWS to determine the action area for this project. The USFWS defines "action area" in the Code of Federal Regulations and their Desert Tortoise Field Manual (USFWS 2009) as "all areas to be affected directly or indirectly by proposed development and not merely the immediate area involved in the action (50 CFR §402.02)."

Other special status species that have been found on the sites included in the figure on the previous page are burrowing owl (*Athene cunicularia*; including the 40-acre parcel located immediately west), loggerhead shrike (*Lanius ludovicianus*; also on the western 40-acre parcel), American badger (*Taxidea taxus*), Mojave fringe-toed lizard (*Uma scoparia*), and larger creosote bush rings (Circle Mountain Biological Consultants, Inc. 1999, 2014a, 2014b).

The project proponent should fund focused surveys for all rare plant and animal species reported from the vicinity of the proposed project. Results of the surveys will determine appropriate permits from CDFW and USFWS and associated avoidance, minimization, and mitigation measures. Focused plant (CDFW 2018) and animal surveys should be conducted by knowledgeable biologists for respective taxa (e.g., rare plant surveys should be performed by botanists), and to assess the likelihood of occurrence for each rare species or resource (e.g., plant community) that has been reported from the immediate region. Focused plant surveys should occur only if there has been sufficient winter rainfall to promote germination of annual plants in the spring. Alternatively, the environmental documents may assess the likelihood of occurrence with a commitment by the proponents to perform subsequent focused plant surveys prior to ground disturbance, assuming conditions are favorable for germination.

Prior to conducting surveys, a knowledgeable biologist should perform a records search of the California Natural Diversity Data Base (CNDDB; CDFW 2024b) for rare plant and animal species reported from the region. The results of the CNDDB review would be reported in the DEIR with an indication of suitable and occupied habitats for all rare species reported from the region based on performing the species-specific surveys described below:

• CDFG (2010) lists hundreds of plant communities occurring in California, including those that are considered Communities of Highest Inventory Priority, or "CHIPs." Biologists completing surveys on behalf of the project proponent should document such communities where they occur and indicate how impacts to them will be minimized.

• If there are any loose, shifting sands within/near the impact areas of the panels, along the gen-tie lines, or access routes, focused surveys for Mojave fringe-toed lizards (*Uma scoparia*) should be performed (University of California, Riverside 2005, 2007).

• The County should ensure that all actions it authorizes are implemented in compliance with the Migratory Bird Treaty Act, Bald and Golden Eagle Protection Act, and associated regulations, (e.g., Driscoll 2010, Pagel et al. 2010) to avoid mortality or injury to migratory birds and harassment of eagles.

• Surveys for burrowing owls should be conducted by persons with both knowledge and field experience in the biology, ecology, and behavior of burrowing owls and identifying burrowing owl sign. The County should also require implementing surveys at 30-, 60-, 90-, 120-, and 150-meter intervals in all suitable habitats adjacent to the subject property to collect data to help assess the potential indirect impacts of the project on this species (CDFG 2012). If burrowing owl sign is found, CDFG (2012) describes appropriate minimization and mitigation measures to offset these impacts.

• Mohave ground squirrel (MGS; *Xerospermophilus mohavensis*) is a threatened species under the CESA and has recently been petitioned for federal listing (Defenders of Wildlife *et al*. 2023). Since this project occurs within the range of the Mohave ground squirrel, the project proponent should conduct focal Mohave ground squirrel surveys (CDFW 2023) to determine presence/absence. Note that the results of these surveys are valid for only one year; if the site has not been brushed prior to March of the subsequent year, a new trapping effort is required. In the absence of a focal MGS survey, the proponent must assume presence and mitigate accordingly.

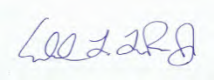
The NOP provides the following information relative to Stormwater Drainage Infrastructure Improvements: “The project’s on-site stormwater drainage system would consist of catch basins, underground storm drainpipes, an underground infiltration chambers, and bioswales/basins. The system is designed to collect, treat, and/or temporarily detain onsite stormwater runoff before discharging treated flows off-site. Specifically, “first flush” flows (i.e., typically the first surface runoff after a rainstorm, which contains the highest proportion of waterborne pollution) would be diverted into the underground infiltration chambers and the bio-swales/basins. The stormwater captured in the underground infiltration chambers would percolate through the soil thereby minimizing the volume of stormwater discharged off-site, while stormwater captured in the bio-swales would be discharged from the site gradually. Stormwater runoff captured after the first flush would be discharged off-site via proposed parkway drains that connect to the proposed storm drain system in Lenwood Road.”

The County should ensure that standing water and discharges associated with the proposed project do not provide a new water source for common ravens, which are a known predator of desert tortoises.

We appreciate this opportunity to provide the above comments and trust they will help protect tortoises during any resulting authorized activities. Herein, we reiterate that the Council wants to be identified as an Affected Interest for this and all other projects authorized by the County that may affect desert tortoises, and that any subsequent environmental documentation for this project is provided to us at the contact information listed above. Please notify the Desert Tortoise Council at eac@deserttortoise.org of any proposed projects that County may authorize in the range of the Mojave desert tortoise so we may comment on them to ensure the County fully considers actions to conserve these tortoises as part of its directive to conserve biodiversity on private lands it manages.

Please respond in an email that you have received this comment letter so we can be sure our concerns have been registered with the appropriate personnel and office for this Project.

Respectfully,



Edward L. LaRue, Jr., M.S.
Desert Tortoise Council, Ecosystems Advisory Committee, Chairperson

cc. Brandy Wood, Region 6 – Desert Inland Region, California Department of Fish and Wildlife, Brandy.Wood@wildlife.ca.gov
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Braginton, Jon

From: Trista Brown <tristabrown09@gmail.com>
Sent: Monday, June 10, 2024 9:08 AM
To: Braginton, Jon
Subject: Phone call

[You don't often get email from tristabrown09@gmail.com. Learn why this is important at https://aka.ms/LearnAboutSenderIdentification]

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you can confirm the sender and know the content is safe.

Good morning Jon,

I wanted to thank you for returning my phone call on Friday June 7, in a timely manner to discuss the project ant hand off Lenwood Rd in Barstow, right behind my property line. Thank you for going over the information sent out on the drawings, you were able to make it clear for me. My concern was a possible set back in the selling of my house due to this project. But with the information provided, about the landscaping between my property line and the parking lot that will be built, the surveys that are being completed for the noise and lighting from the parking lot, it feels as though you guys have the residence and their best interest in mind. Our small community is very quiet and peaceful, I hope to maintain that for the future residents that may take my home.
Thank you again for your time, and sorry it took me so long to write you to tell you I appreciate your willingness to answer any and all of my questions.

Thank you,
Trista Brown

At 34634 Paseo Del Valle.

Appendix B

Air Quality and Greenhouse Gas Emissions Technical Report

Air Quality and Greenhouse Gas Emissions Technical Report

Electric Vehicle Charging Station and Logistics Facility Project, San Bernardino County, California

DECEMBER 2024

Prepared for:

EVC PARTNERS, LLC
725 30th Street, Suite 205
Sacramento, California 95816
Contact: Phil Angelides

Prepared by:

DUDEK
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La Quinta, California 92253
Contact: Dave Larocca

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APPENDICES

Appendix A CalEEMod Output Files and Calculations
Appendix B HRA Files

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
µg/m^3	micrograms per cubic meter
AB	Assembly Bill
ACC	Advanced Clean Cars
AF	acre-feet
Applicant	Lycan Solar, LLC
AQMP	Air Quality Management Plan
BESS	battery energy storage system
BLM	Bureau of Land Management
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California's Green Building Standards
CalRecycle	California Department of Resources Recycling and Recovery
CAP	Climate Action Plan
CARB	California Air Resources Board
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CH_4	methane
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO_2	carbon dioxide
County	Riverside County
CPUC	California Public Utilities Commission
CUP	Conditional Use Permit
DPM	diesel particulate matter
DRECP	Desert Renewable Energy Conservation Plan
EMFAC	EMissionFACtor
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EV	electric vehicle
gen-tie	generation tie
GHG	greenhouse gas
GWP	global warming potential
H_2S	hydrogen sulfide
HAP	hazardous air pollutant
HFC	hydrofluorocarbon
HVAC	heating, ventilation, and air conditioning
IPCC	Intergovernmental Panel on Climate Change
ITE	Institute of Transportation Engineers
kBtu	kilo-British thermal units

Acronym/Abbreviation	Definition
kV	kilovolt
LCFS	Low Carbon Fuel Standard
LOS	level of service
LST	localized significance thresholds
MDAB	Mojave Desert Air Basin
MDAQMD	Mojave Desert Air Quality Management District
MM	Mitigation Measure
MMT	million metric ton
MT CO_2e	metric tons of CO_2 equivalent
MW	megawatt
MWh	megawatt-hour
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NF_3	nitrogen trifluoride
NHTSA	National Highway Traffic Safety Administration
NO_2	nitrogen dioxide
NO_x	oxides of nitrogen
O_3	ozone
O&M	operations and maintenance
PFC	perfluorocarbon
PM_{10}	particulate matter with an aerodynamic diameter less than or equal to 10 microns
$PM_{2.5}$	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
ppb	parts per billion
ppm	parts per million
PUP	Public Use Permit
PV	photovoltaic
ROG	reactive organic gas
RPS	Renewables Portfolio Standard
RTP	Regional Transportation Plan
SB	Senate Bill
SCADA	supervisory control and data acquisition
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SCS	Sustainable Communities Strategy
SF_6	sulfur hexafluoride
SLCP	short-lived climate pollutant
SO_2	sulfur dioxide
SO_4	sulfates
SO_x	sulfur oxides
TAC	toxic air contaminants

Acronym/Abbreviation	Definition
VMT	vehicle miles traveled
VOC	volatile organic compound
ZEV	zero-emission vehicle

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Executive Summary

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions associated with implementation of the proposed Electric Vehicle Charging Station and Logistics Facility project ("proposed Project" or "Project"). This assessment uses the checklist questions in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.) for significance thresholds and also the emissions-based significance thresholds recommended by the Mojave Desert Air Quality Management District (MDAQMD) and other applicable thresholds of significance.

This technical report evaluates the potential for Project-generated construction and operational criteria air pollutant emissions to exceed established state and federal ambient air quality standards, result in adverse health impacts on sensitive receptors, conflict with the implementation of applicable air quality plans, or result in other emissions such as odors that could affect a substantial number of people. The report also evaluates if implementation of the proposed Project would result in GHG emissions that would have a significant impact on the environment or if the Project would conflict with applicable plans, policies, or regulations for the purpose of reducing GHG emissions.

As described below, this technical report concludes that the Project would result in a less-than-significant impact with mitigation during Project construction. The Project would not exceed the relevant air quality CEQA thresholds for any criteria air pollutants after implementation of mitigation to reduce emissions of nitrogen oxides (NO_x) and volatile organic compounds during construction. The daily and annual operational emissions for the Project would not exceed MDAQMD for any criteria air pollutant and impacts would be less than significant. The potential impacts associated with exposure of sensitive receptors to toxic air contaminants (TACs) from construction and operation would also be less than significant.

Overall, the proposed Project would comply with all regulations adopted in furtherance of the California Air Resources Board 2022 Scoping Plan to the extent applicable and required by law and would be consistent with the Southern California Association of Governments 2024-2050 Regional Transportation Plan and Sustainable Communities Strategy also known as "Connect SoCal". The Project would also be consistent with San Bernardino County's Regional Greenhouse Gas Reduction Plan.

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1 Introduction

1.1 Project Overview

EVC Partners LLC (Applicant) is proposing a 20.72-acre electric vehicle (EV) charging station to serve light duty/passenger vehicles and medium and heavy-duty trucks and a state-of-the-art logistics facility in three buildings located on 79.10 acres. The EV charging station would include a convenience store and truck amenities that include a truck wash, truck maintenance facility and truck scale to serve users of the EV Charging Station and Logistics Facility project ("proposed Project" or "Project").

The Project site is located east of Lenwood Road between Jasper Road and Agate Road in unincorporated San Bernardino County, California. A suburban neighborhood adjoins the site to the south and rural / suburban residences are also located to the north and east of the site.

1.2 Regional and Local Setting

The Project site is located in San Bernardino County, California. The approximately 100-acre Project site includes four parcels (0497-142-03, 0497-142-04, 0497-142-14, and 0497-142-15) and is located on Lenwood Road between State Route 58 (SR-58) and Interstate-15 (I-15), approximately one and half miles south of SR-58 and four miles west of downtown Barstow. The Project site is undeveloped and surrounded by undeveloped lands with the exception of a single-family residential neighborhood, High Desert Estates, located adjacent to the southern Project boundary.

1.3 Project Description

The Project is proposing development on approximately 21-acres in the southern portion of the site with an EV charging hub for light-duty vehicles, and medium and heavy-duty trucks, battery storage, and a 15,000 square foot (SF) commercial building to provide food and other amenities (e.g., showers and rest areas) as trucks and cars are charging. The Project would also include a truck wash, truck maintenance facility with up to four bays, a truck scale, and on-site battery storage with approximate storage capacity of 16-megawatt hours (MWh). Electrical power to the site would be supplemented by solar canopies over parking spaces and on-site battery storage. It is estimated that there would be approximately 65,000 SF of solar panels on the canopies. Access would be provided from Lenwood Road. The remaining approximately 79-acres is proposed to include three warehouse buildings of 447,144 SF each, for a total of 1,341,432 square feet of logistic and distribution facilities.

The EV charging station and commercial building, as well as the truck wash, truck scales, and truck maintenance facility would operate 24 hours per day, 7 days per week.

Tenants for the logistics facility have not been identified; however, business operations would be expected to be conducted within the warehouse buildings, with the exception of trucks and passenger vehicles accessing the site, passenger and truck parking, the loading and unloading of trailers within designated truck courts/loading area, and the internal and external movement of materials around the Project site via forklifts, pallet jacks, yard hostlers, and similar equipment. It is anticipated that the facilities would be operated 24 hours a day, 7 days a week

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2 Air Quality

2.1 Environmental Setting

The Project site is located within the Mojave Desert Air Basin (MDAB), which comprises 21,000 square miles, and encompasses the eastern portion of Riverside County consisting of the Palo Verde Valley along with portions of Los Angeles, Kern and San Bernardino counties. The Project site is located within San Bernardino County (County) and is under the jurisdiction of the Mojave Desert Air Quality Management District (MDAQMD).

2.1.1 Meteorological and Topographical Conditions

The Project site is located within the MDAB[1] which includes the desert portions of Los Angeles, Kern, San Bernardino, and Riverside counties. Most of this area is commonly referred to as the high desert because elevations range from approximately 2,000 to 5,000 feet above mean sea level. The MDAB is generally above the regional inversion layer and experiences relatively good dispersion conditions.

The MDAB is separated from Southern California coastal regions and Central California valley regions by mountains extending up to 10,000 feet above mean sea level. As a result, the Mojave Desert is removed from the cooling effects of the Pacific Ocean and is characterized by extreme temperatures. The MDAB consists of an assemblage of mountain ranges interspersed with valleys that often contain dry lakes. Lower-elevation mountains scattered throughout the basin are generally 1,000 feet to 4,000 feet high. Mountain passes form channels for air masses flowing from the west and southwest, and the prevailing winds from the west and southwest are caused by the proximity of the MDAB to coastal and central regions and to the blocking effect of the Sierra Nevada to the north.

This MDAB region is characterized by hot, dry summers and cool winters, with little precipitation. During the summer, the MDAB is generally influenced by a Pacific subtropical high-pressure cell that resides off the coast of California. This high-pressure cell prevents cloud formation and engenders daytime solar heating. The MDAB is rarely influenced by the cold air masses that move south from Canada and Alaska, as these frontal systems diffuse by the time they reach the MDAB. Most moisture arrives in frequent warm, moist, unstable air masses from the south. The MDAB averages between 3 and 7 inches of precipitation per year (from 16 to 30 days with at least 0.01 inches of precipitation). The Victorville California Irrigation Management Information System station recorded an average annual precipitation of 2.9 inches of precipitation between November 2020 and October 2021 (CIMIS 2021). The MDAB is classified as a dry–hot desert climate, with portions classified as dry–very hot desert, to indicate at least 3 months have maximum average temperatures over 100.4°F (MDAQMD 2008).

The Project is also located within the MDAQMD portion of the Western Mojave Desert ozone (O_3) nonattainment area (MDAQMD 2008), which includes the following San Bernardino County communities: Phelan, Hesperia, Adelanto, Victorville, Apple Valley, Barstow, Joshua Tree, Yucca Valley, and Twentynine Palms (the southwestern portion of the MDAQMD).

[1] The description of the MDAB climate and topography is based on the Mojave Desert Air Quality Management District (MDAQMD) 2016 CEQA and Federal Conformity Guidelines (MDAQMD 2016). The description of the Western Mojave Desert ozone (O_3) nonattainment area is based the MDAQMD Federal 8-Hour Ozone Attainment Plan for the Western Mojave Desert Non-Attainment Area (MDAQMD 2008).

2.1.2 Pollutants and Effects

2.1.2.1 Criteria Air Pollutants

Criteria air pollutants are defined as pollutants for which the federal and state governments have established minimum ambient air quality standards (AAQS), or criteria, for outdoor pollutant concentrations in order to protect public health. The federal and state standards have been set, with an adequate margin of safety, at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), particulate matter with an aerodynamic diameter equal to or less than 2.5 microns ($PM_{2.5}$), and lead (Pb). These pollutants, as well as toxic air contaminants (TACs), are discussed below.[2] In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants.

Ozone. O_3 is a strong-smelling, pale blue, reactive, toxic chemical gas consisting of three oxygen atoms. It is a secondary pollutant formed in the atmosphere by a photochemical process involving the sun's energy and O_3 precursors. These precursors are mainly oxides of nitrogen (NO_x) and volatile organic compounds (VOCs) (also referred to as reactive organic gases). The maximum effects of precursor emissions on O_3 concentrations usually occur several hours after they are emitted and many miles from the source. Meteorology and terrain play major roles in O_3 formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. O_3 exists in the upper atmosphere O_3 layer (stratospheric O_3) and at Earth's surface in the lower atmosphere (tropospheric O_3).[3] The O_3 that the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) regulate as a criteria air pollutant is produced close to ground level, where people live, exercise, and breathe. Ground-level O_3 is a harmful air pollutant that causes numerous adverse health effects and is thus considered "bad" O_3. Stratospheric, or "good," O_3 occurs naturally in the upper atmosphere, where it reduces the amount of ultraviolet light (i.e., solar radiation) entering the Earth's atmosphere. Without the protection of the beneficial stratospheric O_3 layer, plant and animal life would be seriously harmed.

Adverse Health Effects: O_3 in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O_3 can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes (EPA 2020). Inhalation of O_3 causes inflammation and irritation of the tissues lining human airways, causing and worsening a variety of symptoms. Exposure to O_3 can reduce the volume of air that the lungs breathe in and can cause shortness of breath. O_3 in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. The occurrence and severity of health effects from O_3 exposure vary widely among individuals, even when the dose and the duration of exposure are the same. Research shows adults and children who spend more time outdoors participating in vigorous physical activities are at greater risk from the harmful health effects of O_3 exposure. While there are relatively few studies of O_3's effects on children, the available studies show that children are no more or less likely to suffer harmful effects than adults. However, there are a number of reasons why children may be more susceptible to O_3 and other pollutants. Children and teens spend nearly twice as much time outdoors and engaged in vigorous activities as adults. Children breathe more rapidly than adults and inhale

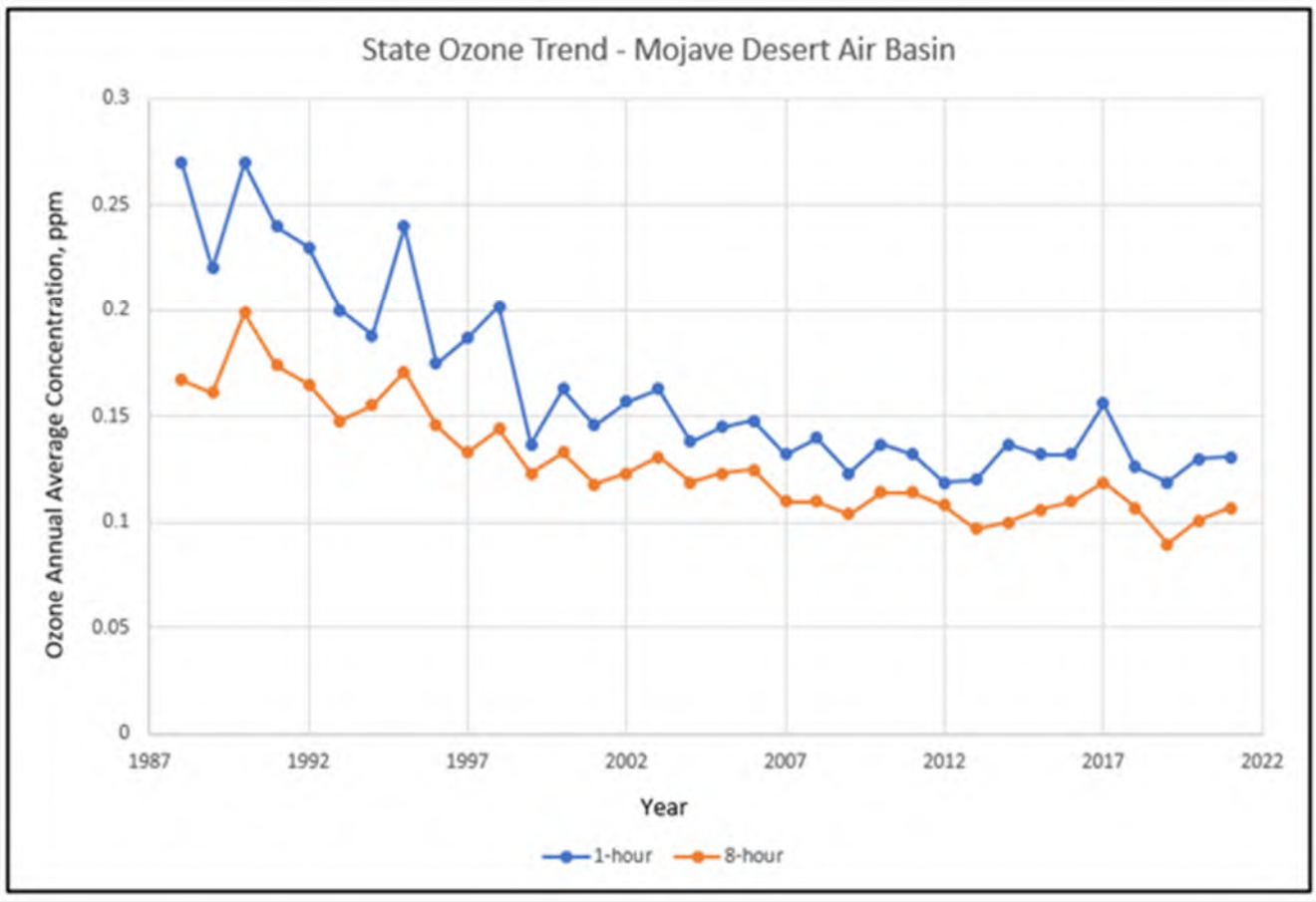
[2] The descriptions of the criteria air pollutants and associated health effects are based on the U.S. Environmental Protection Agency's "Criteria Air Pollutants" (EPA 2021a), as well as the California Air Resources Board's "Glossary" (CARB 2021a)

[3] The troposphere is the layer of Earth's atmosphere nearest to the surface of Earth, extending outward approximately 5 miles at the poles and approximately 10 miles at the equator.

more pollution per pound of their body weight than adults. Also, children are less likely than adults to notice their own symptoms and avoid harmful exposures. Further research may be able to better distinguish between health effects in children and adults. Children, adolescents, and adults who exercise or work outdoors, where O_3 concentrations are the highest, are at the greatest risk of harm from this pollutant (CARB 2021b).

Air quality in the MDAB has generally improved since the inception of air pollutant monitoring. This improvement is mainly a result of lower-polluting on-road motor vehicles, more stringent regulation of industrial sources, and the implementation of emission reduction strategies by the MDAQMD and nearby air districts including the South Coast Air Quality Management District and the San Joaquin Valley Air Pollution Control District, as well as CARB and EPA. This general trend toward cleaner air within the state, including the MDAB, has occurred in spite of continued population growth. Figure 4.2-1 State Ozone Trend – Mojave Desert Air Basin, demonstrates the reduction in O_3 over time.

Figure 4.2-1. State Ozone Trend - Mojave Desert Air Basin



Source: CARB 2022a, iADAM Air Quality Statistics. Units = parts per million (ppm).

Nitrogen Dioxide. NO_2 is a brownish, highly reactive gas that is present in all urban atmospheres. The major mechanism for the formation of NO_2 in the atmosphere is the oxidation of the primary air pollutant nitric oxide (NO), which is a colorless, odorless gas. NO_x, which includes NO_2 and NO, plays a major role, together with VOC, in the atmospheric reactions that produce O_3. NO_x is formed from fuel combustion under high temperature or pressure. In addition, NO_2 is an important precursor to acid rain and may affect both terrestrial and aquatic ecosystems. The two major emissions sources are transportation and stationary fuel combustion sources (such as electric utility and industrial boilers).

Adverse Health Effects: A large body of health science literature indicates that exposure to NO_2 can induce adverse health effects. The strongest health evidence, and the health basis for the ambient air quality standards (AAQS) for NO_2, results from controlled human exposure studies that show that NO_2 exposure can intensify responses to allergens in allergic asthmatics. In addition, a number of epidemiological studies have demonstrated associations between NO_2 exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk because they have disproportionately higher exposure to NO_2 than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration. Several studies have shown that long-term NO_2 exposure during childhood, the period of rapid lung growth, can lead to smaller lungs at maturity in children with higher compared to lower levels of exposure. In addition, children with asthma have a greater degree of airway responsiveness compared with adult asthmatics. In adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease (CARB 2021c).

Carbon Monoxide. CO is a colorless, odorless gas formed by the incomplete combustion of hydrocarbon, or fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In urban areas, automobile exhaust accounts for the majority of CO emissions. CO is a nonreactive air pollutant that dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions—primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, which is a typical situation at dusk in urban areas from November to February. The highest levels of CO typically occur during the colder months of the year, when inversion conditions are more frequent.

Adverse Health Effects: CO is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion and reduced mental alertness, light-headedness, and dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Unborn babies, infants, elderly people, and people with anemia or with a history of heart or respiratory disease are most likely to experience health effects with exposure to elevated levels of CO (CARB 2021d).

Sulfur Dioxide. SO_2 is a colorless, pungent gas formed primarily from incomplete combustion of sulfur-containing fossil fuels. The main sources of SO_2 are coal and oil used in power plants and industries; as such, the highest levels of SO_2 are generally found near large industrial complexes. In recent years, SO_2 concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO_2 and limits on the sulfur content of fuels.

Adverse Health Effects: Controlled human exposure and epidemiological studies show that children and adults with asthma are more likely to experience adverse responses with SO_2 exposure, compared with the non-asthmatic population. Effects at levels near the 1-hour standard are those of asthma exacerbation, including bronchoconstriction accompanied by symptoms of respiratory irritation such as wheezing, shortness of breath, and chest tightness, especially during exercise or physical activity. Also, exposure at elevated levels of SO_2 (above 1 part per million [ppm]) results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality. The elderly and people with cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most likely to experience these adverse effects (CARB 2021e).

SO_2 is of concern both because it is a direct respiratory irritant and because it contributes to the formation of sulfate and sulfuric acid in particulate matter (NRC 2005). People with asthma are of particular concern, both because they have increased baseline airflow resistance and because their SO_2-induced increase in airflow resistance is greater than in healthy people, and it increases with the severity of their asthma (NRC 2005). SO_2 is thought to induce airway constriction via neural reflexes involving irritant receptors in the airways (NRC 2005).

Particulate Matter. Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. $PM_{2.5}$ and PM_{10} represent fractions of particulate matter. Coarse particulate matter (PM_{10}) is about 1/7 the thickness of a human hair. Major sources of PM_{10} include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood-burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions. Fine particulate matter ($PM_{2.5}$) is roughly 1/28 the diameter of a human hair. $PM_{2.5}$ results from fuel combustion (e.g., from motor vehicles, power generation, and industrial facilities), residential fireplaces, and woodstoves. In addition, $PM_{2.5}$ can be formed in the atmosphere from gases such as sulfur oxides, NO_x, and VOCs.

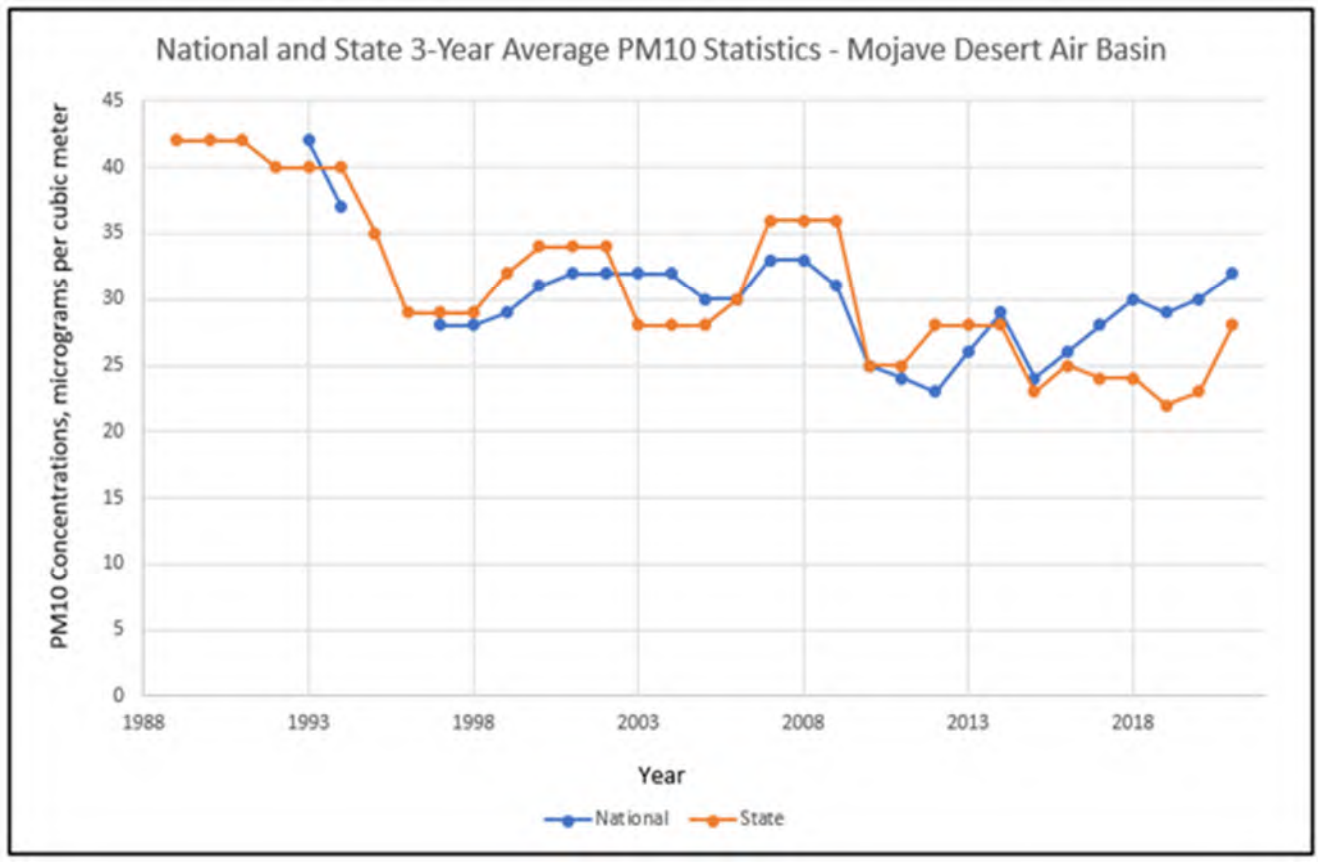
Adverse Health Effects: $PM_{2.5}$ and PM_{10} pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. $PM_{2.5}$ and PM_{10} can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances such as lead, sulfates, and nitrates can cause lung damage directly or be absorbed into the bloodstream, causing damage elsewhere in the body. Additionally, these substances can transport adsorbed gases such as chlorides or ammonium into the lungs, also causing injury. Whereas PM_{10} tends to collect in the upper portion of the respiratory system, $PM_{2.5}$ is so tiny that it can penetrate deeper into the lungs and damage lung tissue. Suspended particulates also damage and discolor surfaces on which they settle and produce haze and reduce regional visibility.

A number of adverse health effects have been associated with exposure to both $PM_{2.5}$ and PM_{10}. For $PM_{2.5}$, short-term exposures (up to 24-hour duration) have been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days. These adverse health effects have been reported primarily in infants, children, and older adults with preexisting heart or lung diseases. In addition, of all the common air pollutants, $PM_{2.5}$ is associated with the greatest proportion of adverse health effects related to air pollution, both in the United States and worldwide based on the World Health Organization's Global Burden of Disease Project. Short-term exposures to PM_{10} have been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits (CARB 2021f).

Long-term exposure (months to years) to $PM_{2.5}$ has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. The effects of long-term exposure to PM_{10} are less clear, although several studies suggest a link between long-term PM_{10} exposure and respiratory mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that particulate matter in outdoor air pollution causes lung cancer (CARB 2021f).

As discussed for Ozone, air quality in the MDAB has generally improved since the inception of air pollutant monitoring including PM_{10} ambient concentrations. Figure 4.2-2, National and State 3-Year Average PM10 Statistics – Mojave Desert Air Basin, demonstrates the reduction in PM_{10} trend over time. As Figure 4.2-2 demonstrates a general reduction over time, there are short term variations in PM_{10} levels that occur primarily due to exceptional events resulting from wind-blown dust events and wildfires. Exceptional events are unusual or naturally occurring events that can affect air quality but are not reasonably controllable.

Figure 4.2-2. National and State 3-Year Average PM_{10} Statistics – Mojave Desert Air Basin



Source: CARB 2022a, iADAM Air Quality Statistics. Units = micrograms per cubic meter.

Lead. Lead in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline; the manufacturing of batteries, paints, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phase out of leaded gasoline reduced the overall inventory of airborne lead by nearly 95%. With the phase out of leaded gasoline,

secondary lead smelters, battery recycling, and manufacturing facilities are becoming lead-emissions sources of greater concern.

Adverse Health Effects: Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and, in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood, because children are highly susceptible to the effects of lead. Such exposures are associated with decrements in neurobehavioral performance, including intelligence quotient performance, psychomotor performance, reaction time, and growth.

Sulfates. Sulfates are the fully oxidized form of sulfur, which typically occur in combination with metals or hydrogen ions. Sulfates are produced from reactions of SO_2 in the atmosphere. Adverse health effects can result in respiratory impairment, as well as reduced visibility.

Vinyl Chloride. Vinyl chloride is a colorless gas with a mild, sweet odor, which has been detected near landfills, sewage plants, and hazardous waste sites, due to the microbial breakdown of chlorinated solvents. Adverse health effects include short-term exposure to high levels of vinyl chloride in air can cause nervous system effects, such as dizziness, drowsiness, and headaches. Long-term exposure through inhalation can cause liver damage, including liver cancer.

Hydrogen Sulfide. Hydrogen sulfide is a colorless and flammable gas that has a characteristic odor of rotten eggs. Sources of hydrogen sulfide include geothermal power plants, petroleum refineries, sewers, and sewage treatment plants. Adverse health effects due to exposure to hydrogen sulfide can result in nuisance odors, as well as headaches and breathing difficulties at higher concentrations.

Visibility-Reducing Particles. Visibility-reducing particles are any particles in the air that obstruct the range of visibility. Sources of visibility-reducing particles are the same as for $PM_{2.5}$ described above. Adverse effects of reduced visibility can include obscuring the viewshed of natural scenery, reducing airport safety, and discouraging tourism.

Volatile Organic Compounds. Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O_3 are referred to and regulated as VOCs. Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the main sources of hydrocarbons. Other sources of hydrocarbons include evaporation from petroleum fuels, solvents, dry cleaning solutions, and paint.

Adverse health effects of VOCs result from the formation of O_3 and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs. There are no separate health standards for VOCs as a group.

2.1.2.2 Non-Criteria Air Pollutants

Toxic Air Contaminants. A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute and/or chronic noncancerous health effects. A toxic substance released into the air is considered a TAC. TACs are identified by federal and state agencies based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step

process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics "Hot Spots" Information and Assessment Act, Assembly Bill (AB) 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere. The law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years.

Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

Diesel Particulate Matter. Diesel particulate matter (DPM) is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases, gas and particle, both of which contribute to health risks. More than 90% of DPM is less than 1 micrometer in diameter (about 1/70th the diameter of a human hair), and thus is a subset of $PM_{2.5}$ (CARB 2016b). DPM is typically composed of carbon particles ("soot," also called black carbon, or BC) and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene (CARB 2016b). The CARB classified "particulate emissions from diesel-fueled engines" (i.e., DPM; 17 CCR 93000) as a TAC in August 1998. DPM is emitted from a broad range of diesel engines: on-road diesel engines of trucks, buses, and cars and off-road diesel engines, including locomotives, marine vessels, and heavy-duty construction equipment, among others. Approximately 70% of all airborne cancer risk in California is associated with DPM (CARB 2000). To reduce the cancer risk associated with DPM, CARB adopted a diesel risk reduction plan in 2000 (CARB 2000). Because it is part of $PM_{2.5}$, DPM also contributes to the same noncancerous health effects as $PM_{2.5}$ exposure. These effects include premature death; hospitalizations and emergency department visits for exacerbated chronic heart and lung disease, including asthma; increased respiratory symptoms; and decreased lung function in children. Several studies suggest that exposure to DPM may also facilitate development of new allergies (CARB 2016b). Those most vulnerable to noncancerous health effects are children whose lungs are still developing and the elderly who often have chronic health problems.

Odorous Compounds. Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person's reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The ability to detect odors varies considerably among the population and overall is subjective. People may have different reactions to the same odor. An odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. Known as odor fatigue, a person can become desensitized to almost any odor, and recognition may only occur with an alteration in the intensity. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

Valley Fever. Coccidioidomycosis, more commonly known as "valley fever," is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. When fungal spores are present, any activity that disturbs the soil, such as digging, grading, or other earth-moving operations, can cause the spores to become airborne and thereby increase the risk of exposure. The ecologic factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline sandy soils. Valley fever can affect construction workers that disturb soils in areas where the spores are present.

San Bernardino County is not considered a highly endemic region for valley fever. Per the California Department of Public Health, the range over 7 years (2013–2019) for coccidioidomycosis cases in the county is 1.4 – 10.4 cases per 100,000 people per year. Statewide incidences in 2019 were 22.5 per 100,000 people (CDPH 2019).

2.1.3 Sensitive Receptors

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. Facilities and structures where these air pollution-sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses where air pollution-sensitive individuals are most likely to spend time include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities (sensitive sites or sensitive land uses) (CARB 2005). The MDAQMD identifies sensitive receptors as residences, schools, daycare centers, playgrounds and medical facilities are considered sensitive receptor land uses (MDAQMD 2020). The closest off-site sensitive receptors to the Project site are residential units south and adjacent to the southern project site boundary. The closest school, Lenwood Elementary School, is located approximately 0.5-miles southeast of the Project site.

2.2 Regulatory Setting

2.2.1 Federal Regulations

2.2.1.1 Criteria Air Pollutants

The federal Clean Air Act, passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. The EPA is responsible for implementing most aspects of the Clean Air Act, including setting NAAQS for major air pollutants; setting hazardous air pollutant standards; approving state attainment plans; setting motor vehicle emission standards; issuing stationary source emission standards and permits; and establishing acid rain control measures, stratospheric O_3 protection measures, and enforcement provisions. Under the Clean Air Act, National ambient air quality standards (NAAQS) are established for the following criteria pollutants: O_3, CO, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and lead.

The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The NAAQS (other than for O_3, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and those based on annual averages or arithmetic mean) are not to be exceeded more than once per year. NAAQS for O_3, NO_2, SO_2, PM_{10}, and $PM_{2.5}$ are based on statistical calculations over 1- to 3-year periods, depending on the pollutant. The Clean Air Act requires the EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public

health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a state implementation plan that demonstrates how those areas will attain the NAAQS within mandated time frames.

2.2.1.2 Hazardous Air Pollutants

The 1977 federal Clean Air Act amendments required the EPA to identify National Emission Standards for Hazardous Air Pollutants (HAPs) to protect public health and welfare. HAPs include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 federal Clean Air Act Amendments, which expanded the control program for HAPs, 187 substances and chemical families were identified as HAPs.

2.2.2 State Regulations

2.2.2.1 Criteria Air Pollutants

The federal Clean Air Act delegates the regulation of air pollution control and the enforcement of the NAAQS to the states. In California, the task of air quality management and regulation has been legislatively granted to CARB, with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB, which became part of the California Environmental Protection Agency in 1991, is responsible for ensuring implementation of the California Clean Air Act of 1988, responding to the federal Clean Air Act, and regulating emissions from motor vehicles and consumer products.

CARB has established California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS. As stated previously, an ambient air quality standard defines the maximum amount of a pollutant averaged over a specified period of time that can be present in outdoor air without harm to the public's health. For each pollutant, concentrations must be below the relevant CAAQS before a basin can attain the corresponding CAAQS. Air quality is considered "in attainment" if pollutant levels are continuously below the CAAQS and violate the standards no more than once each year. The CAAQS for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, PM_{10}, and $PM_{2.5}$ and visibility-reducing particles are values that are not to be exceeded.

The MDAQMD have based their thresholds of significance for CEQA purposes on the levels that scientific and factual data demonstrate that the air basin can accommodate without affecting the attainment date for the NAAQS or CAAQS. Since an ambient air quality standard is based on maximum pollutant levels in outdoor air that would not harm the public's health, and air district thresholds pertain to attainment of the ambient air quality standard, this means that the thresholds established by air districts are also protective of human health. The NAAQS and CAAQS are presented in Table 1.

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	Primary[c,d]	Secondary[c,e]
O_3	1 hour	0.09 ppm (180 µg/m³)	—	Same as Primary Standard[f]
	8 hours	0.070 ppm (137 µg/m³)	0.070 ppm (137 µg/m³)[f]	
NO_2[g]	1 hour	0.18 ppm (339 µg/m³)	0.100 ppm (188 µg/m³)	Same as Primary Standard
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)	0.053 ppm (100 µg/m³)	
CO	1 hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)	None
	8 hours	9.0 ppm (10 mg/m³)	9 ppm (10 mg/m³)	
SO_2[h]	1 hour	0.25 ppm (655 µg/m³)	0.075 ppm (196 µg/m³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m³)
	24 hours	0.04 ppm (105 µg/m³)	0.14 ppm (for certain areas)[g]	—
	Annual	—	0.030 ppm (for certain areas)[g]	—
PM_{10}[i]	24 hours	50 µg/m³	150 µg/m³	Same as Primary Standard
	Annual Arithmetic Mean	20 µg/m³	—	
$PM_{2.5}$[i]	24 hours	—	35 µg/m³	Same as Primary Standard
	Annual Arithmetic Mean	12 µg/m³	9.0 µg/m³	15.0 µg/m³
Lead[j,k]	30-day Average	1.5 µg/m³	—	—
	Calendar Quarter	—	1.5 µg/m³ (for certain areas)[k]	Same as Primary Standard
	Rolling 3-Month Average	—	0.15 µg/m³	
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m³)	—	—
Vinyl chloride[j]	24 hours	0.01 ppm (26 µg/m³)	—	—
Sulfates	24- hours	25 µg/m³	—	—
Visibility reducing particles	8 hour (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%	—	—

Source: CARB 2024.

Notes: µg/m³ = micrograms per cubic meter; mg/m³= milligrams per cubic meter; ppm = parts per million by volume; O_3 = ozone; NO_2 = nitrogen dioxide; CO = carbon monoxide; SO_2 = sulfur dioxide; PM_{10} = particulate matter with an aerodynamic diameter less than or equal to 10 microns; $PM_{2.5}$ = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns.

[a] California standards for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, suspended particulate matter (PM_{10}, $PM_{2.5}$), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] National standards (other than O_3, NO_2, SO_2, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[d] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[e] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[f] On October 1, 2015, the national 8-hour O_3 primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[g] To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[h] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[i] On February 7, 2024, the national annual PM2.5 primary standard was lowered from 12.0 µg/m3 to 9.0 µg/m3. The existing national 24- hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m3 , as was the annual secondary standard of 15.0 µg/m3 . The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

[j] CARB has identified lead and vinyl chloride as TACs with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[k] The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

2.2.2.2 Toxic Air Contaminants

The state Air Toxics Program was established in 1983 under AB 1807 (Tanner). The California TAC list identifies more than 700 pollutants, of which carcinogenic and noncarcinogenic toxicity criteria have been established for a subset of these pollutants pursuant to the California Health and Safety Code. In accordance with Assembly Bill (AB) 2728, the state list includes the (federal) HAPs. In 1987, the Legislature enacted the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588) to address public concern over the release of TACs into the atmosphere. AB 2588 requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years. TAC emissions from individual facilities are quantified and prioritized. "High-priority" facilities are required to perform a health risk assessment, and if specific thresholds are exceeded, the facility operator is required to communicate the results to the public in the form of notices and public meetings.

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines (CARB 2000).With the participation of local air districts, industry, and interested public, CARB prepared a risk management guidance document and a risk reduction plan to inform the regulatory process and achieve further diesel PM emission reductions. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, the On-Road Heavy Duty (New) Vehicle Program, the In-Use Off-Road Diesel Vehicle Regulation, and the New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel-powered equipment. There are several Airborne Toxic Control Measures that reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

California Health and Safety Code Section 41700

Section 41700 of the Health and Safety Code states that a person shall not discharge from any source whatsoever quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public; or that endanger the comfort, repose, health, or safety of any of those persons or the public; or that cause, or have a natural tendency to cause, injury or damage to business or property. This section also applies to sources of objectionable odors.

2.2.3 Local Regulations

2.2.3.1 Mojave Desert Air Quality Management District

The MDAQMD is the other regional agency responsible for the regulation and enforcement of federal, state, and local air pollution control regulations in portions the MDAB where part of the Project is located. The MDAQMD operates monitoring stations in the MDAB, develops rules and regulations for stationary sources and equipment, prepares emissions inventory and air quality management planning documents, and conducts source testing and inspections. The MDAQMD's air quality management plans include control measures and strategies to be implemented to attain state and federal AAQS in the MDAB. The MDAQMD then implements these control measures

as regulations to control or reduce criteria pollutant emissions from stationary sources or equipment. The MDAQMD's most recent air quality plans are the PM_{10} attainment demonstration and maintenance plan (MDAQMD 1995) and the O_3 attainment plan (MDAQMD 2008).

Applicable Rules

Emissions that would result from mobile, area, and stationary sources during construction and operation of the Project are subject to the rules and regulations of the MDAQMD. The MDAQMD rules applicable to the Project may include, but are not limited to, the following:

Rule 219 – Equipment Not Requiring a Permit. The rule identifies equipment exempt from permit requirements of District Rules 201 and 203. District permit required for Internal combustion engines with manufacturer's maximum continuous rating greater than or equal to 50 brake horsepower.

Rule 401 – Visible Emissions. This rule establishes the limit for visible emissions from stationary sources.

Rule 402 – Nuisance. This rule prohibits the discharge of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any such persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property.

Rule 403 – Fugitive Dust Control for the Mojave Desert Planning Area. This rule ensures that the NAAQS for PM_{10} will not be exceeded due to anthropogenic sources of fugitive dust within the Mojave Desert Planning Area and implements the control measures contained in the Mojave Desert Planning Area Federal PM_{10} Attainment Plan. MDAQMD Rule 403 includes requirements for a Dust Control Plan, signage and fencing requirements, as well as surface watering and stabilization with chemicals, gravel and asphaltic pavement to eliminate visible fugitive dust from vehicular travel and wind erosion.

Rule 431 – Sulfur Content of Liquid Fuels. The purpose of this rule is to limit the sulfur content in diesel and other liquid fuels for the purpose of reducing the formation of SO_x and particulates during combustion and of enabling the use of add-on control devices for diesel-fueled internal combustion engines. The rule applies to all refiners, importers, and other fuel suppliers such as distributors, marketers, and retailers, as well as to users of diesel, low-sulfur diesel, and other liquid fuels for stationary-source applications in the MDAQMD. The rule also affects diesel fuel supplied for mobile sources.

Rule 442 – Usage of Solvents. The purpose of this rule is to reduce VOC emissions from VOC-containing materials or equipment that is not subject to limits of any rule found in District Regulation XI – Source Specific Standards.

Rule 1113 – Architectural Coatings. This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

2.2.3.2 Southern California Association of Governments

The Southern California Association of Governments (SCAG) is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial counties and serves as a forum for regional issues relating to transportation, the economy, community development, and the environment. SCAG serves as the federally designated metropolitan planning organization for the Southern California region and is the largest metropolitan planning organization in the United States.

On May 7, 2020, SCAG's Regional Council adopted the Connect SoCal (2020–2045 Regional Transportation Plan [RTP]/Sustainable Communities Strategy [SCS]). The Connect SoCal is a long-range visioning plan that balances future mobility and housing needs with economic, environmental and public health goals. Connect SoCal charts a path toward a more mobile, sustainable and prosperous region by making connections between transportation networks, between planning strategies and between the people whose collaboration can improve the quality of life for Southern Californians. Connect SoCal embodies a collective vision for the region's future and is developed with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura (SCAG 2020).

The RTP/SCS is updated every 4 years. At the time of this analysis, SCAG adopted the 2024-2050 RTP/SCS, also referred to as "Connect SoCal 2024". The Connect SoCal 2024-2050 builds upon prior planning cycles to update the vision of the region's future (SCAG 2024). SCAG's Connect SoCal 2024–2050 RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. The RTP/SCS is a regional growth management strategy, which targets per capita GHG reduction from passenger vehicles and light-duty trucks in the Southern California region pursuant to SB 375. In addition to demonstrating the region's ability to attain the GHG emission reduction targets set forth by CARB, the 2024–2050 RTP/SCS outlines a series of actions and strategies for integrating the transportation network with an overall land use pattern that responds to projected growth, housing needs, changing demographics, and transportation demands (SCAG 2024). Thus, successful implementation of the 2024–2050 RTP/SCS would result in more complete communities with various transportation and housing choices while reducing automobile use.

2.2.3.3 San Bernardino County Countywide Plan/Policy Plan

The Countywide Plan/Policy Plan contains the long-term goals and policies that guide County decisions, investments, and improvements toward achieving the Countywide Vision. The Policy Plan represents a unique approach to county planning. It serves as the County's General Plan for the unincorporated areas, which is mandated by state law, but it also includes policy direction for adult and child supportive services, healthcare, public safety, and other regional services the County administers in both incorporated and unincorporated areas. The Natural Resource Element includes goals and policies relevant to air quality and to the Project (San Bernardino County 2020):

> **Goal NR-1** Air Quality that promotes health and wellness of residents in San Bernardino County through improvements in locally-generated emissions.
>
> **Policy NR-1.2 Indoor air quality**
> We promote the improvement of indoor air quality through the California Building and Energy Codes and through the provision of public health programs and services.
>
> **Policy NR-1.3 Coordination on air pollution**
> We collaborate with air quality management districts and other local agencies to monitor and reduce major pollutants affecting the county at the emission source.
>
> **Policy NR-1.5 Sensitive land uses**
> We consider recommendations from the California Air Resources Board on the siting of new sensitive land uses and exposure to specific source categories.

Policy NR-1.6 Fugitive dust emissions

We coordinate with air quality management districts on requirements for dust control plans, revegetation, and soil compaction to prevent fugitive dust emissions.

Policy NR-1.8 Construction and operations

We invest in County facilities and fleet vehicles to improve energy efficiency and reduce emissions. We encourage County contractors and other builders and developers to use low-emission construction vehicles and equipment to improve air quality and reduce emissions.

Policy NR-1.9 Building design and upgrades

We use the CALGreen Code to meet energy efficiency standards for new buildings and encourage the upgrading of existing buildings to incorporate design elements, building materials, and fixtures that improve environmental sustainability and reduce emissions.

2.3 Regional and Local Air Quality Conditions

2.3.1 Mojave Desert Air Basin Attainment Designation

Pursuant to the 1990 federal Clean Air Act amendments, the EPA classifies air basins (or portions thereof) as "attainment" or "nonattainment" for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as "attainment" for that pollutant. If an area exceeds the standard, the area is classified as "nonattainment" for that pollutant. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as "unclassified" or "unclassifiable." The designation of "unclassifiable/attainment" means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Areas that achieve the standards after a nonattainment designation are re-designated as maintenance areas and must have approved Maintenance Plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as "attainment" or "nonattainment," but based on CAAQS rather than the NAAQS. Table 2 depicts the current attainment status of the Project site with respect to the NAAQS and CAAQS, as well as the attainment classifications for the criteria pollutants are outlined in Table 2.

Table 2. Mojave Desert Air Basin Attainment Status

Pollutant	Designation/Classification	
	National Designation	California Designation
Ozone (O_3)	Unclassified/Attainment	Nonattainment (Severe)
Nitrogen dioxide (NO_2)	Unclassifiable/Attainment	Attainment
Carbon monoxide (CO)	Unclassifiable/Attainment	Unclassified
Sulfur dioxide (SO_2)	Unclassifiable/Attainment	Attainment
Respirable particulate matter (PM_{10})	Unclassified	Nonattainment
Fine particulate matter ($PM_{2.5}$)	Unclassified/Attainment	Attainment
Lead (Pb)[1]	Unclassifiable/Attainment	Attainment
Sulfates (SO_4)	No national standard	Attainment
Hydrogen sulfide (H_2S)	No national standard	Unclassified
Vinyl chloride[1]	No national standard	No designation

Table 2. Mojave Desert Air Basin Attainment Status

Pollutant	Designation/Classification	
	National Designation	California Designation
Visibility-reducing particles	No national standard	Unclassified

Source: CARB 2022.
Notes: Attainment = meets the standards; Attainment (maintenance) = achieve the standards after a nonattainment designation; Nonattainment = does not meet the standards; Unclassified or unclassifiable = insufficient data to classify; Unclassifiable/attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.
[1] CARB has identified lead and vinyl chloride as toxic air contaminants with no threshold level of exposure for adverse health effects determined.

2.3.2 Local Ambient Air Quality

CARB, air districts, and other agencies monitor ambient air quality at approximately 250 air quality monitoring stations across the state. The MDAQMD and CARB monitor local ambient air quality at monitoring stations that measure pollutant concentrations 10 feet above ground level; therefore, air quality is often referred to in terms of ground-level concentrations. The most recent background ambient air quality data from 2020 to 2022 are presented in Table 3.

The Barstow monitoring station, located at 200 E. Buena Vista, Barstow, California, is the nearest air quality monitoring station to the Project site, located approximately 5.4 miles east of the Project site. The data collected at this station is considered representative of the air quality experienced in the Project vicinity given similar climate and meteorological and topographical conditions. Air quality data for O_3 NO_2, CO, and PM_{10}, from the Barstow monitoring station is provided in Table 3. Because $PM_{2.5}$ is not monitored at the Barstow monitoring station, measurements were taken from the Victorville monitoring station located at 14306 Park Avenue, Victorville, CA (approximately 29 miles south of the Project site). SO_2 is not currently monitored in the County and data is not available. The number of days exceeding the ambient air quality standards are also shown in Table 3.

Table 3. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year (days)		
					2020	2021	2022	2020	2021	2022
Ozone (O_3)										
Barstow	ppm	Maximum 1-hour concentration	California	0.09	0.10	0.09	0.09	3	2	1
	ppm	Maximum 8-hour concentration	California	0.070	0.090	0.085	0.085	26	21	14
			National	0.070	0.081	0.077	0.078	25	20	19
Nitrogen Dioxide (NO_2)										
Barstow	ppm	Maximum 1-hour concentration	California	0.18	0.060	0.060	0.060	0	0	0
			National	0.100	0.055	0.054	0.054	0	0	0
	ppm	Annual concentration	California	0.030	0.014	0.015	0.014	0	0	0
			National	0.053	0.014	0.014	0.014	0	0	0
Carbon Monoxide (CO)										
Barstow	ppm	Maximum 1-hour concentration	California	20	5.5	1	—	0	0	—
			National	35	5.5	1	—	0	0	—
	ppm	Maximum 8-hour concentration	California	9.0	1	0.7	—	0	0	—
			National	9	1	0.7	—	0	0	—
Coarse Particulate Matter (PM_{10})[a]										
Barstow	µg/m³	Maximum 24-hour concentration	California	50	—	—	—	1	1	6
			National	150	213.5	372.7	225.1	1	1	6
	µg/m³	Annual concentration	California	20	—	—	—	—	—	—
Fine Particulate Matter ($PM_{2.5}$)[a]										
Victorville-14306 Park Avenue	µg/m³	Maximum 24-hour concentration	National	35	20	22	23	4	1	0
	µg/m³	Annual concentration	California	12	10	10	10	—	—	—
			National	12.0	8.2	9.0	9.6	—	—	—

Sources: CARB 2023; EPA 2023a.

Notes: — = not available; μg/m^3 = micrograms per cubic meter; ND = insufficient data available to determine the value; ppm = parts per million
Data taken from CARB iADAM (http://www.arb.ca.gov/adam) and EPA AirData (https://www.epa.gov/outdoor-air-quality-data) represent the highest concentrations experienced over a given year. Exceedances of national and California standards are only shown for O_3 and particulate matter. Daily exceedances for particulate matter are estimated days because PM_{10} and $PM_{2.5}$ are not monitored daily. All other criteria pollutants did not exceed national or California standards during the years shown. There is no national standard for 1-hour O_3, annual PM_{10}, or 24-hour SO_2, nor is there a California 24-hour standard for $PM_{2.5}$.
SO_2 is not currently monitored in the County and data is not available; therefore, it is not included in the table.
* = there was insufficient data available to determine the value.

[a] Measurements of PM_{10} and $PM_{2.5}$ are usually collected every 6 days and every 1 to 3 days, respectively. Number of days exceeding the standards is a mathematical estimate of the number of days concentrations would have been greater than the level of the standard had each day been monitored. The numbers in parentheses are the measured number of samples that exceeded the standard.

2.4 Significance Criteria and Methodology

2.4.1 Thresholds of Significance

The significance criteria used to evaluate Project impacts to air quality are based on CEQA Guidelines Appendix G. According to Appendix G, a significant impact related to air quality would occur if the Project would:

A. Conflict with or obstruct implementation of the applicable air quality plan.
B. Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable state ambient air quality standard.
C. Expose sensitive receptors to substantial pollutant concentrations.
D. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.
E. Result in cumulatively considerable air quality impacts.

The CEQA Guidelines indicate that, where available, significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to determine whether the Project would have a significant impact on air quality. As outlined in the MDAQMD's *CEQA and Federal Conformity Guidelines* (MDAQMD 2016), a project would result in a significant environmental impact if it:

1. Would generate total emissions (direct and indirect) in excess of the established significance thresholds (presented as Table 4)
2. Would generate a violation of any ambient air quality standard when added to the local background
3. Does not conform with the applicable attainment or maintenance plan
4. Would expose sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million (10×10^{-6}) and/or a hazard index (noncarcinogenic) greater than or equal to 1

Residences, schools, daycare centers, playgrounds, and medical facilities are considered sensitive receptor land uses. The following project types proposed for sites within the specified distance to an existing or planned sensitive receptor land use must be evaluated using Threshold 4:

- any industrial project within 1,000 feet
- a distribution center (40 or more trucks per day) within 1,000 feet
- a major transportation project (50,000 or more vehicles per day) within 1,000 feet
- a dry cleaner using perchloroethylene within 500 feet
- a gasoline dispensing facility within 300 feet

The MDAQMD *CEQA Air and Federal Conformity Guidelines* (MDAQMD 2016) sets forth quantitative emission significance thresholds for criteria air pollutants below which a project would not have a significant impact on ambient air quality. Project-related air quality emissions estimated in this environmental analysis would be considered significant if any of the applicable significance thresholds presented in Table 4 are exceeded. The emission-based thresholds for O_3 precursors are intended to serve as a surrogate for an "ozone significance threshold" (i.e., the potential for adverse O_3 impacts to occur) because O_3 itself is not emitted directly. MDAQMD recommends that its quantitative air pollution thresholds be used to determine the significance of project emissions.

Table 4. Mojave Desert Air Quality Management District Daily Air Quality Significance Thresholds

Pollutant	Daily Threshold (pounds per day)
VOC	137
NO_x	137
CO	548
SO_x	137
PM_{10}	82
$PM_{2.5}$	65
Hydrogen sulfide[a]	54
Lead[a]	3

Source: MDAQMD 2016.
Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter.

[a] The Project includes typical equipment and on-road vehicles, which result in negligible (if any) emissions of hydrogen sulfide and lead. Therefore, these pollutants are not discussed in this analysis.

Regarding localized CO, although the MDAQMD does not have screening levels for intersection traffic that could result in potential CO hotspots, several other air districts have established these levels including the Southern California Air Quality Management District (SCAQMD), which are described below to provide context of the magnitude of hourly volumes that could result in significant localized CO:

- The SCAQMD conducted CO modeling for its 2003 Air Quality Management Plan (SCAQMD 2003a) for the four worst-case intersections in the South Coast Air Basin. At the time the 2003 Air Quality Management Plan was prepared, the intersection of Wilshire Boulevard and Veteran Avenue was the most congested intersection in Los Angeles County, with an average daily traffic volume of approximately 100,000 vehicles per day. Using CO emission factors for 2002, the peak modeled CO 1-hour concentration was estimated to be 4.6 ppm at the intersection of Wilshire Boulevard and Veteran Avenue. Accordingly, CO concentrations at congested intersections would not exceed the 1-hour or 8-hour CO CAAQS unless projected daily traffic would be at least more than 100,000 vehicles per day.
- The Bay Area Air Quality Management District (BAAQMD) determined that projects would result in a less-than-significant impact to localized CO concentrations if (1) project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour, or (2) project traffic would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadway) (BAAQMD 2017).

Based on the Project's proximity to the South Coast Air Basin, the SCAQMD screening criterion of 100,000 vehicles per day has been applied to this Project as a metric to evaluate CO hotspots.

2.4.2 Approach and Methodology

2.4.2.1 Construction Emissions

Construction of the Project would result in emissions primarily associated with the use of off-road construction equipment, on-road haul and vendor (material delivery) truck trips, and worker vehicle trips. Emissions from

construction were estimated using the California Emissions Estimator Model (CalEEMod) Version 2022.1.1.24[4] using a combination of CalEEMod default assumptions and Project-specific information provided by the Applicant where available. The methods and assumptions used to estimate the criteria air pollutant emissions from Project construction are described below in detail for each component. For additional details see Appendix A, CalEEMod Output Files.

For purposes of estimating Project emissions and based on information provided by the Applicant, it is assumed that construction of the Project would commence in April 2027 and would last approximately 18 months, ending in September 2028. The analysis contained herein is based on the following schedule assumptions (duration of phases is approximate):

- Site Preparation: 2 weeks
- Grading: 1 month
- Fine Grading: 1 month
- Underground Utilities: 1 month
- Building Construction: 12 months
- Paving: 1 month
- Architectural Coatings: 1 month

Off-Road Equipment

General offroad construction equipment assumptions (i.e., type and number of pieces) were provided by the Applicant and are summarized in Table 5. Default values for equipment horsepower and load factor provided in CalEEMod were used for all construction equipment. For the analysis, it was generally assumed that heavy-duty construction equipment would be operating at the site for up to approximately 8 hours per day, 6 days per week, during Project construction.

Table 5. Construction Off-Road Equipment Assumptions

Construction Phase	Equipment Type	Quantity
Site Preparation	Rubber Tired/Tracked Dozers	15
	Tractors/Loaders/Backhoes	20
Grading	Graders	5
	Excavators	10
	Tractors/Loaders/Backhoes	10
	Scrappers	10
	Rubber Tired/Tracked Dozers	5
Fine Grading	Graders	5
	Excavators	10
	Tractors/Loaders/Backhoes	10

[4] CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform to calculate construction and operational emissions from land use development projects. The model was developed for the California Air Pollution Control Officers Association in collaboration with multiple air districts across the state. Numerous lead agencies in the state, including MDAQMD and SCAQMD, use CalEEMod to estimate criteria air pollutant emissions in accordance with CEQA Guidelines Section 15064.4(a)(1).

Table 5. Construction Off-Road Equipment Assumptions

Construction Phase	Equipment Type	Quantity
	Scrappers	10
	Rubber Tired/Tracked Dozers	5
Underground Utilities	Excavators	20
	Trenchers	5
	Off-Highway Trucks	20
	Plate Compactors	15
	Rubber Tired/Tracked Dozers	5
	Skid Steer Loaders	20
Building Construction	Forklifts	15
	Generator Sets	5
	Cranes	5
	Welders	5
	Tractors/Loaders/Backhoes	15
Paving	Pavers	10
	Paving Equipment	10
	Rollers	10
Architectural Coatings	Air Compressors	5

Source: See Appendix A for details.

On-Road Vehicles

On-road vehicles would be required for worker travel, vendor trips, and haul trips to and from the Project site during construction. General assumptions for on-road vehicle travel are consistent with the Traffic Generation Analysis prepared for the Project and described below. CalEEMod default emission factors representing the vehicle mix and emissions were used to estimate emissions associated with vehicular sources. Fugitive dust emissions for paved and un-paved travel were estimated using default emission factors in CalEEMod. In accordance with MDAQMD Rule 403, the Project would employ the following fugitive dust control measures:

- Watering two times daily
- Limiting unpaved road travel speed to 25 miles per hour

2.4.2.2 Operational Emissions

Operation of the Project would result in criteria air pollutant emissions from daily operation of the logistics facility, convenience store, and truck wash and truck maintenance facility. Emissions from the operational phase of the Project were estimated using CalEEMod Version 2022.1.1.24 using a combination of CalEEMod default assumptions, and Project-specific information provided by the Applicant where available. Operational year 2028 was assumed consistent with the first full year following completion of Project construction.

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from consumer product use, architectural coatings, and landscape maintenance equipment. Emissions associated with natural gas usage in space heating and water heating are calculated in the building energy use module of CalEEMod, as described in the following text.

Consumer products are chemically formulated products used by household and institutional consumers, including detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. Other paint products, furniture coatings, or architectural coatings are not considered consumer products (CAPCOA 2022). Consumer product ROG emissions are estimated in CalEEMod based on the floor area of nonresidential buildings and on the default factor of pounds of ROG per building square foot per day.

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings, such as in paints and primers used during building maintenance. CalEEMod calculates the VOC evaporative emissions from the application of surface coatings based on the VOC emission factor, the building square footage, the assumed fraction of surface area, and the reapplication rate. The VOC emissions factor is based on the VOC content of the surface coatings, and MDAQMD Rule 1113, Architectural Coatings, governs the VOC content for interior and exterior coatings. This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories. CalEEMod default values were assumed, including the surface area to be painted, the VOC content of architectural coatings, and the reapplication rate of 10% of area per year.

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers. The emissions associated from landscape equipment use are estimated based on CalEEMod default values for emission factors (grams per square foot of nonresidential building space per day) and number of summer days (when landscape maintenance would generally be performed) and winter days.

Mobile Sources

The Project would generate criteria pollutant emissions from mobile sources (vehicular traffic) as a result of passenger vehicles (workers and visitors) and truck traffic associated with the commercial operations. For the analysis the commercial operations are modeled as fast food with drive-thru, retail with truck washing, electric vehicle charging, and warehouse operations. However, combustion emissions are not estimated from the electric vehicle trips associated with the EV charging facilities as electric vehicles do not generate combustion emissions. Particulate matter emissions would be generated from the electric vehicle trips from tire and brake wear and these emissions are estimated and included in the analysis.

Emissions from the mobile sources during operation of the Project were estimated in CalEEMod. The maximum daily trip rates, taken from the Transportation Impact Study (TIA - Dudek 2024), were 1,402 trips per day for fast food with drive-thru; 653 trips per day for retail; 1,097 trips per day for electric vehicle charging; 2,428 primary warehouse trips per day total, of which 1,760 trips would be passenger vehicles and 668 trips would be trucks, both of which were assumed 7 days per week. For the warehouse operation the passenger vehicle trip lengths were based on the Project's VMT analysis trip length of 12.8 miles for commercial-work trips (i.e., trips made by someone who is employed by the warehouse land use).

To identify an appropriate trip length assumption for warehouse heavy-duty truck trips, two different methods of estimation were evaluated: (1) project-specific EMFAC-based estimate, and (2) SCAQMD recommendations. For method 1, to determine an average operational truck trip distance, EMFAC data and the distance to the Port of Long Beach was examined. The Port of Long Beach was evaluated since it is the nearest major maritime cargo hub to the Project site and potential origin/destination for haulage outside the MCAB. EMFAC data was queried for San Bernardino County for operational year 2028 for light-heavy duty (LHDT1 and LHDT2)[5], medium heavy duty (MHDT), and heavy-heavy duty trucks (HHDT) for total VMT and number of vehicle trips. Based on the EMFAC data it is estimated that MHDTs average 4.23 miles per trip and HHDTs average 9.71 miles per trip in the county in 2028. LHDT1 and LHDT2s have a shorter EMFAC trip distance compared to MHDT; therefore, as a conservative assumption, LHDT1 and LHDT2 were assumed to have the same trip distance as MHDTs. The estimated trip distance from the Port of Long Beach to the Project site was estimated to be 134 miles. Based on the Project's TIA analysis, HHDT make up 62% of the total truck trips for the Project and LHDT1, LHDT2, and MHDTs make up 37.4% of truck trips. Conservatively, assuming all HHDTs originate from the Port of Long Beach, then 50% of HHDT truck trips, arrival trips, are assumed to be of a distance of 134 miles. The other 50% making up the HHDT departure from the Project are assumed to have trip distance equal to the average EMFAC San Bernardino County trip distance of 9.71 miles. To determine an average total truck distance for use in CalEEMod, HHDT trips are averaged with the other 37.4% of the trucks (and LHDT1, LHDT2, and MHDTs) to determine an overall weighted average truck trip distance, which equates to about 50 miles. See Table 6 for calculation details.

Table 6. Operational Truck Trip Distance -EMFAC Data

Vehicle	Percent of Trucks Trips (%)[1]	EMFAC Data			Trip Distance
		EMFAC Truck Classification	County-wide VMT per Year	County-wide Vehicle Trips per Year	VMT per Trip
2-3 Axle Trucks (Arriving and Departing)	37.4	LHDT1, LHDT2, and MHDT	165,558[2]	39,169[2]	4.23
4+ Axle Trucks (Arriving from Port)	31.3 (50% of total HHDT Trips[4])	HHDT	N/A	N/A	134[3]
4+ Axle Trucks (Departing)	31.3 (50% of total HHDT Trips[4])	HHDT	2,867,818	295,282	9.71
				Weighted Average (All Truck Trips)	*45.7*

Source: Appendix A.

Notes:

1 Based on Project traffic impact analysis.

2 LHDT1, LHDT2, and MHDT conservatively based on EMFAC VMT and Trip data for MHDT.

3 Based on the distance from the Project site (Barstow) to the Port of Long Beach.

4 Percent of truck trips represents arrival and departure trips, therefore 50% of trips (arrival) conservatively assumed to originate at the Port of Long Beach. 50% of trips assumed to depart the Project facility and estimated truck trip distance is based on EMFAC county-wide average HHDT truck VMT per trip.

5 LHDT1 and LHDT2 categories based on weight classes. Specifically, LHDT1 = 8,501 to 10,000 pounds and LHDT2 = 10,001 to 14,000 pounds.

For method 2, the EMFAC truck trip lengths were compared to the SCAQMD recommendation of 40 miles and when the EMFAC estimation was less than the SCAQMD recommendation then the SCAQMD recommendation of 40 miles was utilized in place of the EMFAC value and assumed to be 100% of primary trips.[6] Table 7 presents the weighted average truck trip distance based on the combination of SCAQMD recommendation and the specific distance from the Port for Long Beach to the Project site. Since method 2 provides a more conservative trip length based on the Project location and a reasonably anticipated origin and destination of operational truck trips and goods movement, it is conservatively applied in this analysis to estimate mobile source emissions.

Table 7. Operational Truck Trip Distance -SCAQMD Assumptions

Vehicle	Percent of Trucks Trips (%)[1]		Trip Distance
		EMFAC Truck Classification	VMT per Trip
2-3 Axle Trucks (Arriving and Departing)	37.4	LHDT1, LHDT2, and MHDT	40
4+ Axle Trucks (Arriving from Port)	31.3 (50% of total HHDT Trips[4])	HHDT	134[3]
4+ Axle Trucks (Departing)	31.3 (50% of total HHDT Trips[4])	HHDT	40
		Weighted Average (All Truck Trips)	*61*

Source: Appendix A.

Notes:

1 Based on Project traffic impact analysis.
2 LHDT1, LHDT2, and MHDT conservatively based on SCAQMD Recommendation.
3 Based on the distance from the Project site (Barstow) to the Port of Long Beach.

Vehicle emissions occur during startup, operation (running), and idling, as well as from evaporative losses when the engines are resting. The emissions factors for trucks and passenger vehicles were determined using CalEEMod.

Project truck idling for trucks accessing the logistics facility would be limited to 5 minutes in accordance with CARB's adopted Airborne Toxic Control Measure; however, for modeling purposes, it was conservatively assumed that trucks would idle for a total of 15 minutes: idling which occurs while the trucks are waiting to pull up to the loading dock, at the loading dock, and prior to entering and exiting the site.

Energy Source Emissions

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for greenhouse gas emissions in CalEEMod, since criteria pollutant emissions

6 The average trip length for heavy-duty trucks were based on implementation of the Facility-Based Mobile Source Measures adopted in the SCAQMD's 2016 AQMP. SCAQMD's "Preliminary Warehouse Emission Calculations" assumed a heavy-heavy-duty truck trip length of 39.9 miles (SCAQMD 2021), and the default commercial-nonwork trip length for trucks in CalEEMod is 6.6 miles. Therefore, the conservatively assumed trip length of 40 miles is used for this analysis.

would occur at the site of power plants, which are not on the Project site. However, natural gas combustion would occur at the Project site itself, in association with equipment that uses natural gas. The emissions associated with natural gas use were calculated using CalEEMod default parameters, which assume compliance with Title 24 Building Energy Efficiency Standards.

Off-Road Equipment

The most common type of cargo handling equipment are forklifts, pallet jacks, and yard trucks, which are designed for moving cargo containers. Yard trucks are also known as yard goats, utility tractors, hustlers, yard hostlers, and yard tractors. For this Project, based on the maximum square footage of building space permitted by the Project, on-site modeled operational equipment includes a total of 161 electric forklifts and 5 electric yard tractors operating at 24 hours a day for 365 days of the year. See Appendix B-1 for detailed calculations.

Health Risk Assessments

Construction Health Risk Assessment

An HRA was performed to evaluate potential health risk associated with construction of the Project. The following discussion summarizes the dispersion modeling and HRA methodology; supporting construction HRA documentation, including detailed assumptions, is presented in Appendix B-2.

For risk assessment purposes, PM_{10} in diesel exhaust is considered DPM, originating mainly from off-road equipment operating at a defined location for a given length of time at a given distance from sensitive receptors. Less-intensive, more-dispersed emissions result from on road vehicle exhaust (e.g., heavy-duty diesel trucks).

The air dispersion modeling methodology was based on MDAQMD's generally accepted modeling practices (MDAQMD 2020). Air dispersion modeling was performed using the EPA's American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) Version 23132 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 12.0.0. The HRA followed the Office of Environmental Health Hazard Assessment (OEHHA) 2015 guidelines (OEHHA 2015) and MDAQMD guidance to calculate the health risk impacts at all proximate receptors, as discussed below. The dispersion modeling included the use of standard regulatory default options. AERMOD parameters were selected consistent with the MDAQMD and EPA guidance and identified as representative of the Project site and Project activities. Principal parameters of this modeling are presented in Table 8.

Table 8. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters

Parameter	Details
Meteorological Data	AERMOD-specific meteorological data for the Barstow-Daggett Airport air monitoring station (KDAG) was used for the dispersion modeling based on the location of the Project. A meteorological data set from 2015 through 2020 was obtained from the CARB in a preprocessed format suitable for use in AERMOD.
Urban versus Rural Option	The rural dispersion option was selected due to the undeveloped nature of the Project site.

Table 8. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters

Parameter	Details
Terrain Characteristics	Digital elevation data were imported into AERMOD and elevations were assigned to receptors and emission sources, as necessary. Digital elevation data were obtained through the AERMOD View in the U.S. Geological Survey's National Elevation Dataset format.
Source Release Characterizations	Air dispersion modeling of DPM emissions was conducted assuming the off-road equipment and trucks would operate in accordance with the modeling scenario estimated in CalEEMod (Appendix B-1), based on the best information available at the time of analysis: ▪ Off-road construction equipment was modeled as a line of adjacent volume sources across the project site with a release height of 5 meters, a plume height of 10 meters, and plume width of 9 meters.
Receptors	Discrete receptors were placed at the nearest receptor locations in all directions to the Project site.

Source: See Appendix B.
Notes: AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; MDAQMD = Mojave Desert Air Quality Management District; DPM = diesel particular matter; CalEEMod = California Emissions Estimator Model. See Appendix B-2.

The health risk calculations were performed using the Hotspots Analysis and Reporting Program Version 2 (HARP2) Air Dispersion and Risk Tool (ADMRT, Version 22118). AERMOD was run with all sources emitting unit emissions (1 gram per second) to obtain the necessary input values for HARP2. The line of volume sources was partitioned evenly based on the 1 gram per second emission rate. The ground-level concentration plot files were then used to estimate the long-term cancer health risk to an individual, and the non-cancer chronic health indices. There is no reference exposure level for acute health impacts from DPM, and, thus, acute risk was not evaluated.

Operational Heath Risk Assessment

For the operational health risk, the operation year 2028 was assumed consistent with completion of Project construction. Emissions from operation of the Project include truck trips, and truck idling emissions. Truck idling for trucks accessing the logistics facility would be limited to 5 minutes in accordance with CARB's adopted Airborne Toxic Control Measure; however, truck idling was conservatively assumed to idle for 15 minutes.[7] Therefore, the analysis conservatively overestimates DPM emissions from idling. All deliveries would occur Monday through Sunday.

Dudek evaluated the Project's potential cancer and noncancer health impacts using exposure periods appropriate to evaluate long-term emission increases (third trimester of pregnancy to 30 years). Emissions dispersion of DPM was modeled using AERMOD, then cancer risk and noncancer health impacts subsequently using the CARB HARP2. The health risk results were then compared to MDAQMD thresholds to assess Project significance. Principal parameters of this modeling are presented in Table 9.

[7] Although the Project is required to comply with CARB's idling limit of 5 minutes, on-site idling emissions was estimated for 15 minutes of truck idling, which would take into account on-site idling while the trucks are waiting to pull up to the loading dock, idling at the loading dock, and idling during check-in and check-out.

Table 9. Operational Health Risk Assessment American Meteorological Society/U.S. Environmental Protection Agency Regulatory Model Operational Principal Parameters

Parameter	Details
Meteorological Data	AERMOD-specific meteorological data for the Barstow-Daggett Airport air monitoring station (KDAG) was used for the dispersion modeling based on the recommendation of the MDAQMD. A meteorological data set from 2015 through 2020 was obtained from CARB in a preprocessed format suitable for use in AERMOD.
Urban versus Rural Option	The rural dispersion option was selected due to the undeveloped nature of the Project site.
Terrain Characteristics	Digital elevation data were imported into AERMOD and elevations were assigned to receptors and emission sources, as necessary. Digital elevation data were obtained through the AERMOD View in the U.S. Geological Survey's National Elevation Dataset format.
Source Release Characterizations	The following operational source modeling parameters were based on the best information available at the time of analysis: ▪ Diesel truck travel was modeled as a line of adjacent volume sources with a release height of 3.4 meters, a plume height of 6.8 meters, and plume width of 13.4 meters allow the following truck routes, based on the TIA: 1. 5% of truck traffic to SR-58 from Agate Road via Lenwood Road 2. 45% of truck traffic to I-15 from Agate Road via SR-58 3. 50% of truck traffic to I-15 via Lenwood Road south of the project site. ▪ Truck idling was modeled as a line of adjacent volume sources along each side of the warehouse building with loading docks, with a release height of 4 meters, a plume height of 8 meters, and plume width of 8 meters.
Receptors	Discrete receptors were placed at the nearest receptor locations in all directions to the Project site.

Source: See Appendix B.
Note: AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; MDAQMD = Mojave Desert Air Quality Management District; SCAQMD = South Coast Air Quality Management District; EPA = U.S. Environmental Protection Agency.

2.5 Impact Analysis

2.5.1 Would the Project conflict with or obstruct implementation of the applicable air quality plan?

Potential to Conflict with MDAQMD Air Quality Plans

The control measures and related emission reduction estimates within the Federal Particulate Matter Attainment Plan and Ozone Attainment Plan for the MDAB are based upon emissions projections for a future development scenario derived from land use, population, and employment characteristics defined in consultation with local governments. A project is non-conforming with an air quality plan if it conflicts with or delays implementation of any applicable attainment or maintenance plan. A project is conforming if it complies with all applicable MDAQMD rules and regulations, complies with all proposed control measures that are not yet adopted from the applicable plan(s), and is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan). Zoning changes, specific plans, general plan amendments and similar land use plan changes that do not increase dwelling unit density, do not increase vehicle trips, and do not increase VMT are also deemed to comply with the

applicable air quality plan (MDAQMD 2020). The Project would be required to comply with all applicable MDAQMD Rules and Regulations, including, but not limited to Rules 401 (Visibile Emissions), 402 (Nuisance), and 403 (Fugitive Dust Control for the Mojave Desert Planning Area).

As discussed below, Project construction-source emissions for NO_x and VOC would exceed applicable MDAQMD regional thresholds without the implementation of mitigation measures AQ-1 and AQ-2. As such, NO_x and VOC construction emissions are considered less-than-significant with mitigation for construction activities and all other criteria air pollutants are consdiered less-than-significant for construction activies. The health effects of criteria air pollutants are discussed in depth under the next impact criterion.

Summary

The Project would comply with all applicable MDAQMD Rules and Regulations, including, but not limited to Rules 401 (Visibile Emissions), 402 (Nuisance), and 403 (Fugitive Dust Control for the Mojave Desert Planning Area). The zoning of the site is Rural Living (RL), where the RL zone allows, through conditional use pemit or minor use permit, some industrial, retail, transportation, communicaiton and infrastructure land uses. While the Project would require a rezone, General Plan Amendment, and a Conditional Use Permit, it would not increase dwelling unit density and as discussed in the Project's VMT analysis, the Project is expected to shorten vehicle trips that were already occuring and the overall VMT analysis including all Project facilites concluded no net increase in VMT per service population. Therefore, the Project would comply with the applicable air quality plan as described below.

The Project includes amenities that cater to both local residents and motorists traveling along Lenwood Road, I-15, and SR-58. It includes EV charging facilities that would primarily serve vehicles already using the adjacent freeways. This component, although not strictly local-serving in nature, does not generate additional trips that were not already occurring. In addition, by offering dining, shopping, and EV charging opportunities, the Project is expected to shorten vehicle trips for both local residents and passing motorists. This aligns with the County's objective to promote development that contributes to reducing VMT. Thus, the Project's EV charging and retail components qualify for exemption from a VMT assessment under the County Guidelines. The full VMT analysis conservatively includes all Project facilites and concludes the follows:

- The Project was evaluated against screening criteria as outlined in the County Guidelines. The Project's EV charging and retail component were found to meet the Local Serving Project screening criteria. However, the industrial component was not found to meet screening criteria and a VMT analysis was performed.
- Project-generated VMT estimates were calculated from SBTAM and compared to the County's adopted impact threshold of 4% below existing Countywide VMT per employee. Project-generated VMT per employee was found to be below the County's impact threshold.
- The Project's cumulative effect on VMT was found to be unchanged or below the County's adopted impact threshold of no net increase in VMT per service population for with Project conditions.

In addition, SCAG's adopted 2024-2050 RTP/SCS, "Connect SoCal 2024" identifies the following relevant policies and strategies that are intended to be supportive of implementing the 2024–2050 RTP/SCS and reducing GHGs: Sustainable Development, Clean Transportation, and Preservation, and Climate Resilience, which would collaterally reduce criteria pollutant emissions.

- **Sustainable Development**. The 2024-2050 RTP/SCS identifies sustainable development, including water and energy-efficient building practices and green infrastructure, as a strategy to reduce GHG emissions. As described herein, targeted sustainable design strategies of the Project include all cargo handling

equipment to be electric powered and the Project would support the transition from fossil fuel LDV to ZEV through its EV charging facilities. The Project would support increased usage of renewable electricity through approximately 2,338,800 kWh of onsite renewable energy produced per year.

- **Clean Transportation**. The 2024–2050 RTP/SCS identifies EV charging infrastructure, adoption of zero-emission vehicles, and clean transit as ways to reduce GHG emissions from mobile sources. As described herein, the Project would directly promote and support low emission technologies for transportation through the development of an EV charging station to serve light duty/passenger vehicles and medium and heavy-duty trucks.

In summary, the Project's cumulative effect on VMT was found to be unchanged or below the County's adopted impact threshold of no net increase in VMT per service population for with Project conditions; the Project would be supportive of the 2024–2050 RTP/SCS and reducing GHGs and collaterally $PM_{2.5}$ and ozone precursor pollutants; and that the Project would not exceed the MDAQMD's threshold during construction with mitigation or operation and thus, would not conflict with the MDAQMD plans including the Federal Particulate Matter Attainment Plan and Ozone Attainment Plan for the MDAB. Impacts related to the Project's potential to conflict with or obstruct implementation of the applicable air quality plan are considered **less-than-significant with mitigation**. Mitigation measure AQ-1 (Construction Equipment Emission Reductions) and mitigation measure AQ-2 (Construction VOC Emission Reductions) would be required to reduce Project construction-related emissions.

Additionally, the Project would directly support SCAG's policies and strategies and promote and support low emission technologies for transportation through the development of an EV charging station to serve light duty/passenger vehicles and medium and heavy-duty trucks, secondarily supporting MDAQMD plans including the Federal Particulate Matter Attainment Plan and Ozone Attainment Plan for the MDAB through the reduction of vehicular combustion emissions.

Mitigation Measures

The following mitigation measures are required to reduce emissions of NO_x and PM_{10} during construction. Compliance with these measures would reduce emissions of NO_x and PM_{10} to less than significant

AQ-1 Construction Equipment Emission Reductions. Prior to the commencement of construction activities for the project, the Project Applicant shall require its construction contractor(s) to use California Air Resources Board (CARB)-certified Tier 4 Final engines for all diesel-powered equipment that are 100 horsepower or greater throughout all phases of project construction.

In the event of changed circumstances (e.g., changes in the availability of specific types of construction equipment), the Project Applicant may submit a request to San Bernardino County Land Use Services Department (County) to apply an equivalent method of achieving project-generated construction emissions that fall below the numeric criteria air pollutant thresholds established by the Mojave Desert Air Quality Management District (MDAQMD). Documentation using industry-standard emission estimation methodologies shall be furnished to the County demonstrating that estimated project-generated construction emissions would not exceed the applicable MDAQMD criteria air pollutant thresholds with the alternate construction method(s). If the documentation demonstrates that project-generated construction emissions remain below the applicable MDAQMD criteria air pollutant thresholds, then the County may approve the alternate construction method(s), at the County's discretion. In addition, before an exemption may be granted, the Project Applicant's construction contractor shall demonstrate that at least two

construction fleet owners/operators in the County were contacted and those owners/operators confirmed Tier 4 final equipment could not be located within the County during the desired construction schedule.

AQ-2 Construction volatile organic compounds (VOC) Emission Reductions. During construction, the Project contractor shall use super-compliant low volatile organic compound (VOC) paint (less than 10 grams per liter VOC) for all interior and exterior paint applications for nonresidential land uses.

Level of Significance After Mitigation

Impacts would be less than significant after implementation of mitigation.

2.5.2 Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable state Ambient Air Quality Standard?

Past, present, and future development projects may contribute to adverse air quality impacts in the MDAB on a cumulative basis. By its nature, air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and MDAQMD develop and implement plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are used in the determination of whether a project's individual emissions would result in a cumulatively considerable net increase of any criteria pollutant. If a project's emissions would exceed the applied significance thresholds, it would result in a cumulatively considerable net increase in a criteria pollutant. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.

Construction and operation of the Project would result in emissions of criteria air pollutants, which may result in a cumulatively considerable net increase in emissions of criteria air pollutants for which the MDAB is designated as nonattainment under the NAAQS or CAAQS. As discussed in Section 2.3.1, the Riverside County portion of the MDAB has been designated as a nonattainment area for O_3 and PM_{10} under California standards (CAAQS). The following discussion quantitatively evaluates potential short-term construction and long-term operational impacts that would result from implementation of the Project.

Construction Emissions

Construction of the Project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (i.e., vendor trucks and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and, for dust, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated with a corresponding uncertainty in precise ambient air quality impacts.

As discussed in Section 2.4.2.1, Construction Emissions, criteria air pollutant emissions associated with temporary construction activity were quantified using CalEEMod. Construction emissions were calculated for the estimated worst-case day over the construction period associated with each phase and reported as the maximum daily emissions estimated during construction. Construction schedule assumptions, including phase type, duration, and sequencing, were based on information provided by the Project Applicant and are intended to represent a reasonable scenario based on the best information available. Default values provided in CalEEMod were used where detailed Project information was not available.

Implementation of the Project would generate air pollutant emissions from entrained dust, off-road equipment, and vehicle emissions. Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM_{10} and $PM_{2.5}$ emissions. The Project would be required to comply with MDAQMD Rule 403 to control dust emissions generated during the grading activities. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active sites two times per day depending on weather conditions. The Project would also employ an off-road speed limit of 25 miles per hour. Internal combustion engines used by construction equipment, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of VOCs, NO_x, CO, PM_{10}, and $PM_{2.5}$.

Table 10 presents the estimated maximum daily construction emissions generated during construction of the Project as compared to the MDAQMD thresholds. The values shown are the maximum summer or winter daily emissions results from CalEEMod. Details of the emission calculations are provided in Appendix A.

Table 10. Estimated Construction Criteria Air Pollutant Emissions – Unmitigated

Year	VOC	NOx	CO	SOx	PM10	PM2.5
Daily (pounds per day)						
2027	32.9	147	464	0.69	80.4	25.4
2028	500	124	399	0.57	79.5	21
Maximum	500	147	464	0.69	80.4	25.4
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
MDAQMD Threshold Exceeded?	**Yes**	**Yes**	No	No	No	No

Source: Appendix A.
Notes: ROG = reactive organic gas; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; MDAQMD = Mojave Desert Air Quality Management District.
The values shown are the maximum summer or winter daily emissions results from CalEEMod. These emissions reflect compliance with MDAQMD Rule 403 (Fugitive Dust), including watering of the Project site and unpaved roads two times per day.

As shown in Table 10, maximum daily construction emissions would not exceed the MDAQMD significance thresholds for CO, SO_x, PM_{10}, or $PM_{2.5}$. However, the Project would exceed the MDAQMD thresholds for NO_x and VOC during the construction period. As such, impacts related to construction would be **potentially significant** and mitigation is required.

To address the exceedance of NO_x emissions during construction, mitigation measure AQ-1 shall be implemented which requires use of Tier 4 final engines for offroad and diesel-powered equipment. Tier 4 final engines reduce emissions of NO_x through advanced exhaust emission control devices. To address the exceedance of VOC emissions during construction, the Project shall use super-compliant low-VOC paint during construction, as detailed in mitigation measure AQ-2.

Mitigation Measures

Implement mitigation measures AQ-1 and AQ-2.

Level of Significance After Mitigation

Table 11 presents the estimated annual construction emissions generated during construction of the Project including mitigation measures AQ-1 and AQ-2. Details of the emission calculations are provided in Appendix A.

Table 11. Estimated Construction Criteria Air Pollutant Emissions – Mitigated

Year	VOC	NOx	CO	SOx	PM10	PM2.5
Daily (pounds per day)						
2027	29	124	502	0.69	79.5	21.0
2028	*105*	*109*	*407*	*0.57*	*79.0*	*20.5*
Maximum	105	124	502	0.69	79.5	21.0
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
MDAQMD Threshold Exceeded?	No	No	No	No	No	No

Source: Appendix A.
Notes: ROG = reactive organic gas; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter
Emissions include application of mitigation measures AQ-1 and AQ-2.

As shown in Table 11, after mitigation, the Project would not exceed the daily MDAQMD significance thresholds for any criteria air pollutant. Therefore, the Project would result in a **less-than-significant impact with mitigation**.

Operational Emissions

Operation of the Project would generate ROG, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions from mobile sources, including vehicle trips from passenger vehicles and heavy-duty trucks; and area sources, including the use of consumer products. Table 12 presents the annual area, energy, off-road, stationary, and mobile emissions associated with the first full year of operation (2028) of the Project. Details of the emission calculations are provided in Appendix A.

Estimated total daily operational emissions are compared to MDAQMD thresholds.

Table 12. Estimated Operational Criteria Air Pollutant Emissions – Unmitigated

Emission Source	VOC	NO_x	CO	SO_x	PM10	PM2.5
Daily (pounds per day)						
Summer						
Mobile	16.8	111	190	1.47	78	21.9
Mobile (EV Diverted Trip Tire and Brake Wear)	N/A	N/A	N/A	N/A	0.56	0.18
Area	67.1	0.82	97.5	0.01	0.17	0.13
Energy	0.01	0.09	0.08	<0.005	0.01	0.01

Table 12. Estimated Operational Criteria Air Pollutant Emissions – Unmitigated

Emission Source	VOC	NO_x	CO	SO_x	PM10	PM2.5
Total	**83.91**	**111.91**	**287.58**	**1.48**	**78.7**	**22.04**
Winter						
Mobile	15.2	117	146	1.43	78	21.9
Mobile (EV Diverted Trip Tire and Brake Wear)	N/A	N/A	N/A	N/A	0.56	0.18
Area	51.1	-	-	-	-	-
Energy	0.01	0.09	0.08	<0.005	0.01	0.01
Total	**66.31**	**117.09**	**146.08**	**1.43**	**78.6**	**21.91**
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
MDAQMD Threshold Exceeded?	No	No	No	No	No	No

Source: Appendix A.
Notes: ROG = reactive organic gas; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter
Totals may not sum due to rounding.

As shown in Table 12, the daily and annual operational emissions for the Project would not exceed MDAQMD for any criteria air pollutant. As such, impacts would be **less than significant**.

As discussed in Section 2.3.1, the MDAB has been designated as a state nonattainment area for O_3 and PM_{10}. The nonattainment status is the result of cumulative emissions from various sources of air pollutants and their precursors within the MDAB including motor vehicles, off-road equipment, and commercial and industrial facilities. Construction of the Project would generate VOC and NO_x emissions (which are precursors to O_3) and emissions of PM_{10}. As indicated in Table 11, after mitigation, Project-generated construction emissions would not exceed the MDAQMD emission-based significance thresholds for any criteria air pollutant. The Project would not exceed MDAQMD emission-based significance thresholds for any criteria air pollutant during operation.

Cumulative Emissions

Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and the MDAQMD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are relevant in the determination of whether a project's individual emissions would have a cumulatively significant impact on air quality. Individual projects that do not generate operational or construction emissions that exceed the MDAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which the MDAB is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact,

The area of the MDAB in which the Project is located is a nonattainment area for O_3 and PM_{10} under the NAAQS and/or CAAQS. The poor air quality in the MDAB is the result of cumulative emissions from motor vehicles, off-road equipment, commercial and industrial facilities, and other emission sources. Projects that emit these pollutants or their precursors (i.e., VOC and NO_x for O_3) potentially contribute to poor air quality. As detailed herein, daily construction emissions associated with the Project would not exceed the MDAQMD significance thresholds after implementation of mitigation

measures AQ-1 and AQ-2 and Project operational-source air pollutant emissions would not exceed the MDAQMD significance thresholds of any criteria air pollutant.

The Project would have a less-than-significant impact with mitigation (construction) regarding cumulatively considerable net increases of criteria pollutants for which the Project region is in nonattainment (i.e., O_3 precursor, NO_x, and PM_{10}). No mitigation is required for long-term (operational) impacts due to Project implementation.

2.5.3 Would the Project expose sensitive receptors, located within one (1) mile of the Project site, to substantial pollutant concentrations?

Health Effects of Criteria Air Pollutants

Construction of the Project would result in emissions that would not exceed the MDAQMD thresholds for criteria air pollutants, including VOC and NO_x, after implementation of mitigation measures AQ-1 and AQ-2. Operation of the Project would result in emissions that would not exceed the MDAQMD thresholds for any criteria air pollutants. The following provides a discussion of the health effects of criteria air pollutants.

As discussed in Section 2.1.2.1, health effects associated with O_3 include respiratory symptoms, worsening of lung disease leading to premature death, and damage to lung tissue. VOCs and NO_x are precursors to O_3, for which the MDAB is designated as nonattainment with respect to the NAAQS and CAAQS. The contribution of VOCs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations in the MDAB due to O_3 precursor emissions tend to be found downwind of the source location because of the time required for the photochemical reactions to occur. Further, the potential for exacerbating excessive O_3 concentrations would also depend on the time of year that the VOC emissions would occur, because exceedances of the O_3 NAAQS and CAAQS tend to occur between April and October when solar radiation is highest. Due to the lack of quantitative methods to assess this complex photochemistry, the holistic effect of a single project's emissions of O_3 precursors is speculative. That being said, because the Project would not exceed the MDAQMD VOC and NO_x thresholds during Project construction with mitigation and would not exceed the MDAQMD VOC and NO_x thresholds during Project operations without mitigation, the Project would not contribute to health effects associated with O_3.

Health effects associated with NO_x and NO_2 (which is a constituent of NO_x) include lung irritation and enhanced allergic responses. Project-related NO_x emissions would not exceed the MDAQMD construction mass daily thresholds with mitigation and would not exceed the MDAQMD mass daily thresholds without mitigation during operation. Because the MDAB is a designated attainment area for NO_2 (and NO_2 is a constituent of NO_x) and the existing NO_2 concentrations in the area are well below the NAAQS and CAAQS standards,[8] it is not anticipated that the Project would cause an exceedance of the NAAQS and CAAQS for NO_2 or result in potential health effects associated with NO_2 and NO_x.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness (see Section 2.1.2.1). CO tends to be a localized impact associated with congested intersections. The potential for CO hotspots is discussed under the subsequent impact criterion below and

[8] See Table 4.2-2, which shows that ambient concentrations of NO_2 at the Victorville monitoring station have not exceeded the NAAQS or CAAQS between 2019 and 2021.

determined to be less than significant. Thus, the Project's CO emissions would not contribute to significant health effects associated with CO.

Health effects associated with PM_{10} include premature death and hospitalization, primarily for worsening of respiratory disease (see Section 2.1.2.1). Construction and operation of the Project would not exceed the MDAQMD threshold for PM_{10}. As such, the Project would not contribute to exceedances of the NAAQS and CAAQS for particulate matter and would not obstruct the MDAB from coming into attainment for these pollutants, the Project would not result in associated health effects.

The California Supreme Court's *Sierra Club v. County of Fresno* (2018) 6 Cal. 5th 502 decision (referred to herein as the Friant Ranch decision; issued on December 24, 2018), addresses the need to correlate mass emission values for criteria air pollutants to specific health consequences, and contains the following direction from the California Supreme Court: "The Environmental Impact Report (EIR) must provide an adequate analysis to inform the public how its bare numbers translate to create potential adverse impacts or it must explain what the agency *does* know and why, given existing scientific constraints, it cannot translate potential health impacts further" (italics original). Currently, MDAQMD, CARB, and EPA have not approved a quantitative method to reliably, meaningfully, and consistently translate the mass emission estimates for the criteria air pollutants resulting from a project to specific health effects. In addition, there are numerous scientific and technological complexities associated with correlating criteria air pollutant emissions from an individual project to specific health effects or potential additional nonattainment days.

In connection with the judicial proceedings culminating in issuance of the Friant Ranch decision, the SCAQMD and the San Joaquin Valley Air Pollution Control District (SJVAPCD) filed amicus briefs attesting to the extreme difficulty of correlating an individual project's criteria air pollutant emissions to specific health impacts. Both the SJVAPCD and the SCAQMD have among the most sophisticated air quality modeling and health impact evaluation capabilities of the air districts in the state. The key relevant points from the SCAQMD and SJVAPCD briefs are summarized herein.

In requiring a health impact type of analysis for criteria air pollutants, it is important to understand how O_3 and PM is formed, dispersed, and regulated. The formation of O_3 and PM in the atmosphere, as secondary pollutants,[9] involves complex chemical and physical interactions of multiple pollutants from natural and anthropogenic sources. The O_3 reaction is self-perpetuating (or catalytic) in the presence of sunlight because NO_2 is photochemically reformed from nitric oxide (NO). In this way, O_3 is controlled by both NO_x and VOC emissions (NRC 2005). The complexity of these interacting cycles of pollutants means that incremental decreases in one emission may not result in proportional decreases in O_3 (NRC 2005). Although these reactions and interactions are well understood, variability in emission source operations and meteorology creates uncertainty in the modeled O_3 concentrations to which downwind populations may be exposed (NRC 2005). Once formed, O_3 can be transported long distances by wind and due to atmospheric transport, contributions of precursors from the surrounding region can also be important (EPA 2008). Because of the complexity of O_3 formation, a specific tonnage of VOCs or NO_X emitted in a particular area does not equate to a particular concentration of O_3 in that area (SJVAPCD 2015). PM can be divided into two categories: directly emitted PM and secondary PM. Secondary PM, like O_3, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as SO_x and NO_x (SJVAPCD 2015). Because of the complexity of secondary PM formation, including the potential to be transported long distances by wind, the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area (SJVAPCD 2015). This is especially true for individual projects, like the Project, where Project-generated

9 Air pollutants formed through chemical reactions in the atmosphere are referred to as secondary pollutants.

criteria air pollutant emissions are not derived from a single "point source," but from construction equipment and mobile sources (passenger cars and trucks) driving to, from and around the Project site.

Another important technical nuance is that health effects from air pollutants are related to the concentration of the air pollutant that an individual is exposed to, not necessarily the individual mass quantity of emissions associated with an individual project. For example, health effects from O_3 are correlated with increases in the ambient level of O_3 in the air a person breathes (SCAQMD 2015). However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient O_3 levels over an entire region (SCAQMD 2015). The lack of a link between the tonnage of precursor pollutants and the concentration of O_3 and $PM_{2.5}$ formed is important because it is not necessarily the tonnage of precursor pollutants that causes human health effects; rather, it is the concentration of resulting O_3 that causes these effects (SJVAPCD 2015). Indeed, the ambient air quality standards, which are statutorily required to be set by EPA at levels that are requisite to protect the public health, are established as concentrations of O_3 and $PM_{2.5}$ and not as tonnages of their precursor pollutants (EPA 2018a). Because the ambient air quality standards are focused on achieving a particular concentration region-wide, the tools and plans for attaining the AAQS are regional in nature. For CEQA analyses, project-generated emissions are typically estimated in pounds per day or tons per year and compared to mass daily or annual emission thresholds. While CEQA thresholds are established at levels that the air basin can accommodate without affecting the attainment date for the AAQS, even if a project exceeds established CEQA significance thresholds, this does not mean that one can easily determine the concentration of O_3 or PM that will be created at or near the Project site on a particular day or month of the year, or what specific health impacts will occur (SJVAPCD 2015).

Regarding regional concentrations and air basin attainment, the SJVAPCD emphasized that attempting to identify a change in background pollutant concentrations that can be attributed to a single project, even one as large as the entire Friant Ranch Specific Plan, is a theoretical exercise. The SJVAPCD brief noted that it "would be extremely difficult to model the impact on NAAQS attainment that the emissions from the Friant Ranch project may have" (SJVAPCD 2015). The situation is further complicated by the fact that background concentrations of regional pollutants are not uniform either temporally or geographically throughout an air basin but are constantly fluctuating based upon meteorology and other environmental factors. SJVAPCD noted that the currently available modeling tools are equipped to model the impact of all emission sources in the San Joaquin Valley Air Basin on attainment (SJVAPCD 2015). The SJVAPCD brief then indicated that, "Running the photochemical grid model used for predicting O_3 attainment with the emissions solely from the Friant Ranch project (which equate to less than one-tenth of one percent of the total NO_x and VOC in the Valley) is not likely to yield valid information given the relative scale involved" (SJVAPCD 2015).

SCAQMD and SJVAPCD have indicated that it is not feasible to quantify project-level health impacts based on existing modeling (SCAQMD 2015; SJVAPCD 2015). Even if a metric could be calculated, it would not be reliable because the models are equipped to model the impact of all emission sources in an air basin on attainment and would likely not yield valid information or a measurable increase in O_3 concentrations sufficient to accurately quantify O_3-related health impacts for an individual project.

Nonetheless, following the Supreme Court's Friant Ranch decision, some EIRs where estimated criteria air pollutant emissions exceeded applicable air district thresholds have included a quantitative analysis of potential project-generated health effects using a combination of a regional photochemical grid model (PGM)[10] and the EPA Benefits Mapping and

[10] The first step in the publicly available HIAs includes running a regional PGM, such as the Community Multiscale Air Quality (CMAQ) model or the Comprehensive Air Quality Model with extensions (CAMx) to estimate the increase in concentrations of O_3 and $PM_{2.5}$ as a result of project-generated emissions of criteria and precursor pollutants. Air districts use photochemical air quality models for regional air quality planning. These photochemical models are large-scale air quality models that simulate the changes of pollutant concentrations in the atmosphere using a set of mathematical equations characterizing the chemical and physical processes in the atmosphere (EPA 2017).

Analysis Program (BenMAP or BenMAP–Community Edition [CE]).[11] The publicly available health impact assessments (HIAs) typically present results in terms of an increase in health incidences and/or the increase in background health incidence for various health outcomes resulting from a project's estimated increase in concentrations of O_3 and $PM_{2.5}$.[12] To date, the five publicly available HIAs reviewed have concluded that the evaluated projects' health effects associated with the estimated project-generated increase in concentrations of O_3 and $PM_{2.5}$ represent a small increase in incidences and a very small percentage of the number of background incidences, indicating that these health impacts are negligible and potentially within the models' margin of error. It is also important to note that while the results of the five available HIAs conclude that project emissions do not result in a substantial increase in health incidences, the estimated emissions and assumed toxicity is also conservatively inputted into the HIA and thus, overestimate health incidences, particularly for $PM_{2.5}$.

As explained in the SJVAPCD brief and noted previously, running the PGM used for predicting O_3 attainment with the emissions solely from an individual project like the Friant Ranch project or the Project is not likely to yield valid information given the relative scale involved. The five examples reviewed support the SJVAPCD's brief contention that consistent, reliable, and meaningful results may not be provided by methods applied at this time. Accordingly, additional work in the industry and more importantly, air district participation, is needed to develop a more meaningful analysis to correlate project-level mass criteria air pollutant emissions and health effects for decision makers and the public. Furthermore, at the time this report was drafted, no HIA has concluded that health effects estimated using the PGM and BenMAP approach are substantial provided that the estimated project-generated incidences represent a very small percentage of the number of background incidences, potentially within the models' margin of error.

In summary, construction with mitigation and operation of the Project would not result in exceedances of the MDAQMD significance thresholds for any criteria air pollutant, and the Project would not result in health effects associated with any criteria air pollutants. The Project is not anticipated to result in health effects associated with criteria air pollutants and the potential health effects associated with these criteria air pollutants are conservatively considered **less-than-significant impact with mitigation**.

Health Impacts of Toxic Air Contaminants

In addition to impacts from criteria pollutants, Project impacts may include emissions of pollutants identified by the state and federal government as TACs or HAPs. State law has established the framework for California's TAC identification and control program, which is generally more stringent than the federal program and aimed at TACs that are a problem in California. The state has formally identified more than 200 substances as TACs, including the federal HAPs, and is adopting appropriate control measures for sources of these TACs. The following measures are required by state law to reduce diesel particulate emissions:

[11] After estimating the increase in concentrations of O_3 and $PM_{2.5}$, the second step in the five examples includes use of BenMAP or BenMAP-CE to estimate the resulting associated health effects. BenMAP estimates the number of health incidences resulting from changes in air pollution concentrations (EPA 2018b). The health impact function in BenMAP-CE incorporates four key sources of data: (i) modeled or monitored air quality changes, (ii) population, (iii) baseline incidence rates, and (iv) an effect estimate. All of the five example HIAs focused on O_3 and $PM_{2.5}$.

[12] The following CEQA documents included a quantitative HIA to address Friant Ranch: (1) California State University Dominguez Hills 2018 Campus Master Plan EIR (CSUDH 2019), (2) March Joint Powers Association K4 Warehouse and Cactus Channel Improvements EIR (March JPA 2019), (3) Mineta San Jose Airport Amendment to the Airport Master Plan EIR (City of San Jose 2019), (4) City of Inglewood Basketball and Entertainment Center Project EIR (City of Inglewood 2019), and (5) San Diego State University Mission Valley Campus Master Plan EIR (SDSU 2019).

- Fleet owners of mobile construction equipment are subject to the CARB Regulation for In-Use Off-Road Diesel Vehicles (Title 13 California Code of Regulations, Chapter 9, Section 2449), the purpose of which is to reduce DPM and criteria pollutant emissions from in-use (existing) off-road diesel-fueled vehicles.
- All commercial diesel vehicles are subject to Title 13, Section 2485 of the California Code of Regulations, limiting engine idling time. Idling of heavy-duty diesel construction equipment and trucks during loading and unloading shall be limited to 5 minutes; electric auxiliary power units should be used whenever possible.

Health effects from carcinogenic air toxics are usually described in terms of cancer risk. The MDAQMD recommends an incremental cancer risk threshold of 10 in a million (MDAQMD 2020). "Incremental cancer risk" is the net increased likelihood that a person continuously exposed to concentrations of TACs resulting from a project over a 9-, 30-, and 70-year exposure period will contract cancer based on the use of standard Office of Environmental Health Hazard Assessment risk-assessment methodology.

The MDAQMD identifies sensitive receptors as residences, schools, daycare centers, playgrounds and medical facilities are considered sensitive receptor land uses (MDAQMD 2020). The closest off-site sensitive receptors to the Project site are residential units south and adjacent to the southern project site boundary. The closest school, Lenwood Elementary School, is located approximately 0.5-miles southeast of the Project site.

Construction Health Risk

As discussed in Section 2.4.2, a construction HRA was performed to estimate the Maximum Individual Cancer Risk and the Chronic Hazard Index for residential receptors as a result of Project construction, on-site development and off-site improvements. Results of the construction HRA are presented in Table 13. Detailed operational model outputs are presented in Appendix B-2.

Table 13. Construction Health Risk Assessment Results – Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk – Residential	Per Million	7.23	10	Less than Significant
Chronic Hazard Index – Residential	Index Value	0.006	1.0	Less than Significant

Source: Appendix B-2.
Note: CEQA = California Environmental Quality Act.

As shown in Table 13, Project construction activities would result in a Maximum Individual Cancer Risk of 7.23 in 1 million at the nearest residence, which is less than the significance threshold of 10 in 1 million. Project construction would result in a Chronic Hazard Index of 0.006, which is below the 1.0 significance threshold. Therefore, Project construction TAC health risk impacts would be **less than significant.**

Operational Health Risk

As discussed in Section 2.4.2, an HRA was performed to estimate the Maximum Individual Cancer Risk and Chronic Hazard Index for nearby residential receptors associated with Project operations. Results of the operational HRA are presented in Table 14. Detailed operational model outputs are presented in Appendix B-2.

Table 14. Operational Health Risk Assessment Results - Unmitigated

Impact Parameter	Units	Impact Level	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk – Residential	Per Million	3.87	10	Less than Significant
Chronic Hazard Index – Residential	Index Value	0.001	1.0	Less than Significant

Source: Appendix B-2.
Note: CEQA = California Environmental Quality Act

As shown in Table 14, the DPM emissions from operation of the Project would result in a Maximum Individual Cancer Risk of 3.87 in 1 million and a Chronic Hazard Index of 0.001. As such, both the Maximum Individual Cancer Risk and the Chronic Hazard Index would be below the significance thresholds. Therefore, potential impacts associated with exposure of sensitive receptors to TACs would be **less than significant**.

Health Impacts of Carbon Monoxide

As described previously, exposure to high concentrations of CO can result in dizziness, fatigue, chest pain, headaches, and impairment of central nervous system functions. Mobile-source impacts, including those related to CO, occur essentially on two scales of motion. Regionally, Project-related vehicle travel would add to regional trip generation and increase the VMT within the local airshed and the MDAB. Locally, construction and operational traffic would be added to the roadway system in the vicinity of the Project site. Although the MDAB is currently an attainment area for CO, there is a potential for the formation of microscale CO "hotspots" to occur immediately around points of congested traffic. Hotspots can form if such traffic occurs during periods of poor atmospheric ventilation, is composed of a large number of vehicles cold-started and operating at pollution-inefficient speeds, and/or is operating on roadways crowded with non-project traffic. Because of continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the MDAB is steadily decreasing.

During construction, the Project would generate trips associated with construction worker vehicles and vendor and haul trucks. Title 40 of the California Code of Regulations, Section 93.123(c)(5), Procedures for Determining Localized CO, PM_{10}, and PM_2 Concentrations (hot-spot analysis), states that "CO, PM_{10}, and $PM_{2.5}$ hot-spot analyses are not required to consider construction-related activities, which cause temporary increases in emissions. Each site which is affected by construction-related activities shall be considered separately, using established 'Guideline' methods. Temporary increases are defined as those which occur only during the construction phase and last five years or less at any individual site" (40 CFR 93.123). While Project construction would involve on-road vehicle trips from trucks and workers during construction, construction activities would be temporary and last up to approximately 18 months; therefore, a project-level construction hotspot analysis would not be required.

As discussed above, high CO concentrations would be associated with severely congested intersections operating at an unacceptable level of service (LOS) (LOS E or worse is unacceptable). Projects contributing to adverse traffic impacts may result in the formation of a CO hotspot. Additional analysis of CO hotspot impacts would be conducted if a project would result in a significant impact or contribute to an adverse traffic impact (i.e., LOS E or worse) at a signalized intersection that would potentially subject sensitive receptors to CO hotspots. According to the Project's TIA, operation of nearby intersections would not operate at an unacceptable LOS after the Project is constructed and in operation (Dudek 2024). As such, potential Project-generated impacts associated with CO hotspots would be **less than significant**.

Valley Fever

As discussed in Section 2.1.2.2, Valley Fever is not highly endemic to San Bernardino County as the latest report from the California Department of Public Health listed Riverside County as having 1.4 – 10.4 cases per 100,000 people (California Department of Public Health 2019). The Project would employ dust mitigation by watering two times per day and limiting speed on unpaved roads to 25 miles per hour in compliance with the MDAQMD. The Project would comply with MDAQMD Rule 403, which limits the amount of fugitive dust generated during construction and also minimizes the release of the *Coccidioides immitis fungus* from construction activities. Therefore, the Project would have a **less-than-significant impact** with respect to Valley Fever exposure for sensitive receptors, primarily construction workers and nearby residences.

Mitigation Measures

No mitigation is required.

2.5.4 Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The occurrence and severity of potential odor impacts depends on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints.

Odors potentially would be generated from vehicles and equipment exhaust emissions during construction activities. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment. Such odors would disperse rapidly from the Project site and generally occur at magnitudes that would not affect substantial numbers of people. Land uses and industrial operations associated with odor complaints typically include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). The Project would not create any new sources of odor from these types of operations. Therefore, impacts associated with odors during Project construction and operation would be **less than significant**.

Mitigation Measures

No mitigation is required.

2.5.5 Cumulative Impacts

Air pollution by nature is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and the MDAQMD develops and implements plans for future attainment of ambient air quality standards. In addition to the MDAQMD efforts, the CARB has comprehensive regulatory programs in place for new and existing sources of air pollution. Local policies, such as land use decisions that involve siting, zoning, and permitting actions, in conjunction with air agency efforts have the potential to greatly enhance the effectiveness of these programs by addressing cumulative impacts in local areas. Project-specific emissions associated with implementation of the proposed project could result in regional and localized impacts. Regional pollutants such as

O_3 and fine particulate matter (with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$)) are derived from complex interactions of emissions from many sources. In contrast, localized, or near-source, pollutants such as sulfur dioxide (SO_2) are mainly derived from a single source or group of sources. Cumulative air quality impacts are the effect of long-term emissions of the proposed project plus any existing emissions at the same location, as well as the effect of long-term emissions of reasonably foreseeable similar projects, on the projected regional air quality or localized air pollution in the MDAB and surrounding areas. Accordingly, impacts can be localized or far-reaching and the geographic scope of air quality impacts varies based on the type of emission source.

Based on the cumulative nature of air pollution and the various mechanisms in place to reduce cumulative air pollutant emissions, project-level thresholds of significance for criteria pollutants, as analyzed in Section 2.5.2, are relevant in the determination of whether the project's individual emissions would have a cumulatively significant impact on air quality. The Project is not expected to exceed the MDAQMD mass daily emission-based thresholds, and the Project would not conflict with the MDAQMD plans including the Federal Particulate Matter Attainment Plan and Ozone Attainment Plan for the MDAB. Impacts related to the Project's potential to conflict with or obstruct implementation of the applicable air quality plan, which addresses the cumulative emissions in the MDAB would be less than significant. In addition, as discussed herein, construction and operation of the project would not result in impacts to potential nearby sensitive receptors. As such, the Project's potential to result in a cumulatively considerable new increase of any criteria pollutant for which the proposed project region is in nonattainment under an applicable federal or state ambient air quality standard would be less than significant. Cumulative impacts resulting from the proposed project would not be cumulatively considerable resulting in a **less-than-significant impact or cumulative contribution**.

3 Greenhouse Gas Emissions

3.1 Environmental Setting

3.1.1 Climate Change Overview

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period of time (i.e., decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system. Many factors, both natural and human, can cause changes in Earth's energy balance, including variations in the sun's energy reaching Earth, changes in the reflectivity of Earth's atmosphere and surface, and changes in the greenhouse effect, which affects the amount of heat retained by Earth's atmosphere (EPA 2022b).

The greenhouse effect is the trapping and build-up of heat in the atmosphere (troposphere) near the Earth's surface. The greenhouse effect traps heat in the troposphere through a threefold process as follows: Short-wave radiation emitted by the Sun is absorbed by the Earth, the Earth emits a portion of this energy in the form of long-wave radiation, and greenhouse gases (GHGs) in the upper atmosphere absorb this long-wave radiation and emit it into space and toward the Earth. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature and creates a pleasant, livable environment on the Earth. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise.

The scientific record of the Earth's climate shows that the climate system varies naturally over a wide range of time scales and that, in general, climate changes prior to the Industrial Revolution in the 1700s can be explained by natural causes such as changes in solar energy, volcanic eruptions, and natural changes in GHG concentrations. Recent climate changes, in particular the warming observed over the past century, however, cannot be explained by natural causes alone. Rather, it is extremely likely that human activities have been the dominant cause of that warming since the mid-twentieth century and are the most significant driver of observed climate change (IPCC 2013; EPA 2017a). Human influence on the climate system is evident from the increasing GHG concentrations in the atmosphere, positive radiative forcing, observed warming, and improved understanding of the climate system (IPCC 2013). The atmospheric concentrations of GHGs have increased to levels unprecedented in the last 800,000 years, primarily from fossil fuel emissions and secondarily from emissions associated with land use changes (IPCC 2013). Continued emissions of GHGs will cause further warming and changes in all components of the climate system, which is discussed further in Section 3.3.2, Potential Effects of Climate Change.

3.1.2 Greenhouse Gases

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. As defined in California Health and Safety Code, Section 38505(g), for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3) (see also CEQA Guidelines, Section 15364.5). Some GHGs, such as CO_2, CH_4, and N_2O, occur naturally and are emitted into the atmosphere through natural processes and human activities. Of these gases, CO_2 and CH_4 are emitted in the greatest quantities from human activities. Manufactured GHGs, which have a much

greater heat-absorption potential than CO_2, include fluorinated gases, such as HFCs, PFCs, and SF_6, which are associated with certain industrial products and processes. The following paragraphs provide a summary of the most common GHGs and their sources.[13]

Carbon Dioxide. CO_2 is a naturally occurring gas and a by-product of human activities and is the principal anthropogenic GHG that affects the Earth's radiative balance. Natural sources of CO_2 include respiration of bacteria, plants, animals, and fungus; evaporation from oceans; volcanic out-gassing; and decomposition of dead organic matter. Human activities that generate CO_2 include combustion of fuels such as coal, oil, natural gas, and wood and changes in land use.

Methane. CH_4 is produced through both natural and human activities. CH_4 is a flammable gas and is the main component of natural gas. Methane is produced through anaerobic (without oxygen) decomposition of waste in landfills, flooded rice fields, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion.

Nitrous Oxide. N_2O is produced through natural and human activities, mainly through agricultural activities and natural biological processes, although fuel burning and other processes also create N_2O. Sources of N_2O include soil cultivation practices (microbial processes in soil and water), especially the use of commercial and organic fertilizers, manure management, industrial processes (such as in nitric acid production, nylon production, and fossil-fuel-fired power plants), vehicle emissions, and using N_2O as a propellant (e.g., rockets, racecars, and aerosol sprays).

Fluorinated Gases. Fluorinated gases (also referred to as F-gases) are synthetic powerful GHGs emitted from many industrial processes. Fluorinated gases are commonly used as substitutes for stratospheric ozone-depleting substances (e.g., CFCs, HCFCs, and halons). The most prevalent fluorinated gases include the following:

- **Hydrofluorocarbons:** HFCs are compounds containing only hydrogen, fluorine, and carbon atoms. HFCs are synthetic chemicals used as alternatives to ozone-depleting substances in serving many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are used in manufacturing.
- **Perfluorocarbons:** PFCs are a group of human-made chemicals composed of carbon and fluorine only. These chemicals were introduced as alternatives, with HFCs, to the ozone depleting substances. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Since PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere, these chemicals have long lifetimes, ranging between 10,000 and 50,000 years.
- **Sulfur Hexafluoride:** SF_6 is a colorless gas soluble in alcohol and ether and slightly soluble in water. SF_6 is used for insulation in electric power transmission and distribution equipment, semiconductor manufacturing, the magnesium industry, and as a tracer gas for leak detection.
- **Nitrogen Trifluoride:** NF_3 is used in the manufacture of a variety of electronics, including semiconductors and flat panel displays.

[13] The descriptions of GHGs are summarized from the Intergovernmental Panel on Climate Change (IPCC) Second Assessment Report (1995), IPCC Fourth Assessment Report (2007), CARB's "Glossary of Air Pollution Terms" (2016a), and EPA's "Glossary of Climate Change Terms" (2016e).

Chlorofluorocarbons. CFCs are synthetic chemicals that have been used as cleaning solvents, refrigerants, and aerosol propellants. CFCs are chemically unreactive in the lower atmosphere (troposphere) and the production of CFCs was prohibited in 1987 due to the chemical destruction of stratospheric O_3.

Hydrochlorofluorocarbons. HCFCs are a large group of compounds, whose structure is very close to that of CFCs—containing hydrogen, fluorine, chlorine, and carbon atoms—but including one or more hydrogen atoms. Like HFCs, HCFCs are used in refrigerants and propellants. HCFCs were also used in place of CFCs for some applications; however, their use in general is being phased out.

Black Carbon. Black carbon is a component of fine particulate matter, which has been identified as a leading environmental risk factor for premature death. It is produced from the incomplete combustion of fossil fuels and biomass burning, particularly from older diesel engines and forest fires. Black carbon warms the atmosphere by absorbing solar radiation, influences cloud formation, and darkens the surface of snow and ice, which accelerates heat absorption and melting. Black carbon is a short-lived species that varies spatially, which makes it difficult to quantify the global warming potential (GWP). DPM emissions are a major source of black carbon and are TACs that have been regulated and controlled in California for several decades to protect public health. CARB estimates that 2017 black carbon emissions were approximately 8 Metric Tons CO_2e ($MTCO_2e$), with the majority of anthropogenic sources coming from transportation—specifically heavy-duty vehicles. These emissions are expected to drop rapidly into the future as a result of the state's air quality programs and regulations addressing diesel engines and diesel fuels (CARB 2022c).

Water Vapor. The primary source of water vapor is evaporation from the ocean, with additional vapor generated by sublimation (change from solid to gas) from ice and snow, evaporation from other water bodies, and transpiration from plant leaves. Water vapor is the most important, abundant, and variable GHG in the atmosphere and maintains a climate necessary for life.

Ozone. Tropospheric O_3, which is created by photochemical reactions involving gases from both natural sources and human activities, acts as a GHG. Stratospheric O_3, which is created by the interaction between solar ultraviolet radiation and molecular oxygen (O_2), plays a decisive role in the stratospheric radiative balance. Depletion of stratospheric O_3, due to chemical reactions that may be enhanced by climate change, results in an increased ground-level flux of ultraviolet-B radiation.

Aerosols. Aerosols are suspensions of particulate matter in a gas emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light.

3.1.3 Global Warming Potential

Gases in the atmosphere can contribute to climate change both directly and indirectly. Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the Earth (e.g., affect cloud formation or albedo) (EPA

2022b). The Intergovernmental Panel on Climate Change (IPCC) developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas[14].

The current version of CalEEMod (Version 2022.1.1.26) assumes that the GWP for CH_4 is 25 (so emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2), and the GWP for N_2O is 298, based on the IPCC's Fourth Assessment Report (IPCC 2007).

3.2 Greenhouse Gas Inventories and Climate Change Conditions

3.2.1 Global Inventory

Anthropogenic GHG emissions worldwide in 2020 (the most recent year for which data is available) totaled approximately 49,800 million metric tons (MMT) of CO_2e, excluding land use change and forestry (PBL 2022). The top six GHG emitters include China, the United States, the Russian Federation, India, Japan, and the European Union, which accounted for approximately 60% of the total global emissions, or approximately 30,270 MMT CO_2e (PBL 2022). Table 15 presents the top GHG-emissions-producing countries.

Table 15. Six Top GHG Producer Countries

Emitting Countries	2020 GHG Emissions (MMT CO_2e)[a,b]
China	14,300
United States	5,640
European Union	3,440
India	3,520
Russian Federation	2,210
Japan	1,160
Total	**30,270**

Source: PBL 2022.
Notes: MMT CO_2e = million metric tons of carbon dioxide equivalent.
[a] Column may not add due to rounding.
[b] GHG emissions do not include land use change and forestry-related GHG emissions.

3.2.2 National Inventory

Per the EPA's Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2021, total United States GHG emissions were approximately 6,340.2 million MT CO_2e (MMT CO_2e) in 2021 (EPA 2023b). Total U.S. emissions have decreased by 2.3% from 1990 to 2021, down from a high of 15.8% above 1990 levels in 2007. Emissions increased from 2020 to 2021 by 5.2% (314.3 MMT CO_2e). Net emissions (i.e., including sinks) were 5,586.0 MMT CO_2e in 2021. Overall, net emissions increased 6.4% from 2020 to 2021 and decreased 16.6% from 2005 levels Between 2020 and 2021, the increase in total GHG emissions was driven largely by an increase in CO_2 emissions from fossil fuel combustion due to economic activity rebounding after the height of the COVID-19 pandemic. The

[14] The GWP of a GHG is defined as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram of a trace substance relative to that of 1 kilogram of a reference gas (IPCC 2014). The reference gas used is CO_2; therefore, GWP-weighted emissions are measured in metric tons of CO_2 equivalent (MT CO_2e).

CO_2 emissions from fossil fuel combustion increased by 6.8% from 2020 to 2021, including a 11.4% increase in transportation sector emissions and a 7.0% increase in electric power sector emissions. The increase in electric power sector emissions was due in part to an increase in electricity demand of 2.4% since 2020. Overall, there has been a decrease in electric power sector emissions from 1990 through 2021, which reflects the combined impacts of long-term trends in many factors, including population, economic growth, energy markets, technological changes including energy efficiency, and the carbon intensity of energy fuel choices (EPA 2023b).

3.2.3 State Inventory

According to California's 2000–2021 GHG emissions inventory (2023 edition), California emitted approximately 381.3 MMT CO_2e in 2021, including emissions resulting from out-of-state electrical generation (CARB 2023c). The sources of GHG emissions in California include transportation, industry, electric power production from both in-state and out-of-state sources, residential and commercial activities, agriculture, high-GWP substances, and recycling and waste. Table 6 presents California GHG emission source categories and their relative contributions to the emissions inventory in 2021.

Table 16. Greenhouse Gas Emissions Sources in California

Source Category	Annual GHG Emissions (MMT CO_2e)	Percent of Total
Transportation	145.6	38.2%
Industrial uses	73.9	19.4%
Electricity generation[a]	62.4	16.4%
Residential and commercial uses	38.8	10.2%
Agriculture and forestry	30.9	8.1%
High-GWP substances	21.3	5.6%
Recycling and waste	8.4	2.2%
Totals	**381.3**	**100%**

Source: CARB 2023c.
Notes: GHG = greenhouse gas; GWP = global warming potential; MMT CO_2e = million metric tons of carbon dioxide equivalent. Emissions reflect 2020 California GHG inventory. Totals may not sum due to rounding.
[a] Includes emissions associated with imported electricity, which account for 19.82 MMT CO_2e.

Per-capita GHG emissions in California have dropped from a 2001 peak of 13.8 MT per person to 9.7 MT per person in 2021, a 30% decrease. In 2016, statewide GHG emissions dropped below the 2020 GHG limit of 431 MMT CO_2e established by AB 32 and have remained below that level since that time (CARB 2023c).

3.2.4 Local Inventory

The County developed a GHG emission inventory as part of its Greenhouse Gas Reduction Plan (GGRP) (San Bernardino County 2021). The communitywide GHG inventory includes all major sources of emissions within the community the County serves. Community-wide GHG inventories include a broader range of emissions associated with both the activities within the community the County serves and the government operations.

Table 17 shows the 2016 community-wide emissions as provided in the GGRP.

Table 17. County of Riverside GHG Emissions by Source

Source	Annual GHG Emissions (MT CO_2e)	Percent of Total
On-road transportation	1,519,146	53
Off-road Equipment	35,618	1.2
Building Energy	948,183	33
Agriculture	143,146	5
Solid Waste Management	197,260	7
Waste Water Treatment	9,651	0.3
Water Transport, Distribution, and Treatment	20,456	0.7
Total	**2,873,469**	**100**

Source: San Bernardino County 2021.
Notes: MT CO_2e = metric tons of carbon dioxide equivalent per year.

3.2.5 Potential Effects of Climate Change

In California, climate change impacts have the potential to affect sea-level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, and electricity demand and supply. The primary effect of global climate change has been a rise in average global tropospheric temperature. Reflecting the long-term warming trend since pre-industrial times, observed mean surface temperature for the decade 2006–2015 was approximately 0.87°C (33.6°F) higher than the average over the 1850–1900 period (IPCC 2018). Scientific modeling predicts that continued emissions of GHGs at or above current rates would induce more extreme climate changes during the twenty-first century than were observed during the twentieth century. Human activities are estimated to have caused approximately 1.0°C (1.8°F) of global warming above pre-industrial levels, with a likely range of 0.8°C to 1.2°C (1.4°F to 2.2°F) (IPCC 2018). Global warming is likely to reach 1.5°C (2.7°F) between 2030 and 2052 if it continues to increase at the current rate (IPCC 2018).

Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. A scientific consensus confirms that climate change is already affecting California. The Office of Environmental Health Hazard Assessment identified various indicators of climate change in California, which are scientifically based measurements that track trends in various aspects of climate change. Many indicators reveal discernible evidence that climate change is occurring in California and is having significant, measurable impacts in the state. Changes in the state's climate have been observed, including an increase in annual average air temperature with record warmth from 2012 to 2016, more frequent extreme heat events, more extreme drought, a decline in winter chill, an increase in cooling degree days and a decrease in heating degree days[15], and an increase in variability of statewide precipitation (OEHHA 2018).

Warming temperatures and changing precipitation patterns have altered California's physical systems—the ocean, lakes, rivers and snowpack—upon which the state depends. Winter snowpack and spring snowmelt runoff from the Sierra Nevada and southern Cascade Mountains provide approximately one-third of the state's annual water supply. Impacts of climate on physical systems have been observed, such as high variability of snow-water content (i.e.,

[15] "Degree days" measure the difference between the average daily temperature and the reference temperature of 65 degrees Fahrenheit (°F). "Cooling" degree days refers to temperatures higher than 65 °F, while "heating" degree days refers to temperatures lower than 65 °F (OEHHA 2018).

amount of water stored in snowpack), decrease in snowmelt runoff, glacier change (loss in area), rise in sea levels, increase in average lake water temperature and coastal ocean temperature, and a decrease in dissolved oxygen in coastal waters (OEHHA 2018).

Impacts of climate change on biological systems, including humans, wildlife, and vegetation, have also been observed, including climate change impacts on terrestrial, marine, and freshwater ecosystems. As with global observations, species responses include those consistent with warming: elevational or latitudinal shifts in range, changes in the timing of key plant and animal life cycle events, and changes in the abundance of species and in community composition. Humans are better able to adapt to a changing climate than plants and animals in natural ecosystems. Nevertheless, climate change poses a threat to public health, as warming temperatures and changes in precipitation can affect vector-borne pathogen transmission and disease patterns in California as well as the variability of heat-related deaths and illnesses. In addition, since 1950, the area burned by wildfires each year has been increasing.

The California Natural Resources Agency (CNRA) has released four California Climate Change Assessments (2006, 2009, 2012, and 2018), which have addressed the following: acceleration of warming across the state, more intense and frequent heat waves, greater riverine flows, accelerating sea level rise, more intense and frequent drought, more severe and frequent wildfires, more severe storms and extreme weather events, shrinking snowpack and less overall precipitation, and ocean acidification, hypoxia, and warming. To address local and regional governments need for information to support action in their communities, the Fourth Assessment (CNRA 2018b) includes reports for nine regions of the state, including the Inland Deserts Region, where the Project is located. Key projected climate risks facing the Inland Deserts Region include the following (CNRA 2018b):

- Extremely high maximum temperatures are expected to occur in the Inland Deserts.
- The fate of the Salton Sea is a critical determinant of future environmental quality.
- Renewable energy development will have big impacts on the economy and infrastructure.
- Continuing current land use/development patterns (i.e., housing development in the region to compensate for lack of development on the coast) will require increased energy for cooling to compensate for a rise in extremely high temperatures.
- Higher temperatures will exacerbate water stress in an already very water-limited region.
- Changing water availability is a key determinant of the future for ecological and agricultural systems.
- Population in the Inland Deserts is highly vulnerable to the effects of climate change.
- Tourism is a major economic driver that is likely to be threatened by a changing climate.

Agriculture. Some of the specific challenges faced by the agricultural sector and farmers include more drastic and unpredictable precipitation and weather patterns; extreme weather events that range from severe flooding to extreme drought, to destructive storm events; significant shifts in water availably and water quality; changes in pollinator lifecycles; temperature fluctuations, including extreme heat stress and decreased chill hours; increased risks from invasive species and weeds, agricultural pests and plant diseases; and disruptions to the transportation and energy infrastructure supporting agricultural production.

Biodiversity and Habitat. Specific climate change challenges to biodiversity and habitat include species migration in response to climatic changes, range shift and novel combinations of species; pathogens, parasites and disease; invasive species; extinction risks; changes in the timing of seasonal life-cycle events; food web disruptions;

threshold effects (i.e., a change in the ecosystem that results in a "tipping point" beyond which irreversible damage or loss has occurred).

Energy. Specific climate change challenges for the energy sector include temperature, fluctuating precipitation patterns, increasing extreme weather events, and sea-level rise.

Forestry. The most significant climate change related risk to forests is accelerated risk of wildfire and more frequent and severe droughts. Droughts have resulted in more large-scale mortalities and combined with increasing temperatures have led to an overall increase in wildfire risks. Increased wildfire intensity subsequently increases public safety risks, property damage, fire suppression and emergency response costs, watershed and water quality impacts, and vegetation conversions.

Ocean and Coastal Ecosystems and Resources. Sea-level rise, changing ocean conditions, and other climate change stressors are likely to exacerbate long-standing challenges related to ocean and coastal ecosystems in addition to threatening people and infrastructure located along the California coastline and in coastal communities. Sea-level rise, in addition to more frequent and severe coastal storms and erosion, are threatening vital infrastructure such as roads, bridges, power plants, ports and airports, gasoline pipes, and emergency facilities, as well as negatively impacting the coastal recreational assets such as beaches and tidal wetlands.

Public Health. Climate change can impact public health through various environmental changes and is the largest threat to human health in the twenty-first century. Changes in precipitation patterns affect public health primarily through potential for altered water supplies, and extreme events such as heat, floods, droughts, and wildfires. Increased frequency, intensity, and duration of extreme heat and heat waves are likely to increase the risk of mortality due to heat-related illness, as well as exacerbate existing chronic health conditions. Other extreme weather events are likely to negatively impact air quality and increase or intensify respiratory illness, such as asthma and allergies.

Transportation. Although the transportation industry is a source of GHG emissions, it is also vulnerable to climate change risks. Increasing temperatures and extended periods of extreme heat threaten the integrity of the roadways and rail lines. High temperatures cause the road surfaces to expand, which leads to increased pressure and pavement buckling. High temperatures can also cause rail breakages, which could lead to train derailment. Other forms of extreme weather events, such as extreme storm events, can negatively impact infrastructure, which can impair movement of peoples and goods, or potentially block evacuation routes and emergency access roads. Increased wildfires, flooding, erosion risks, landslides, mudslides, and rockslides can all profoundly impact the transportation system and pose a serious risk to public safety.

Water. Climate change could seriously impact the timing, form, amount of precipitation, runoff patterns, and frequency and severity of precipitation events. Higher temperatures reduce the amount of snowpack and lead to earlier snowmelt, which can impact water supply availability, natural ecosystems, and winter recreation. Water supply availability during the intense dry summer months is heavily dependent on the snowpack accumulated during the wintertime. Increased risk of flooding has a variety of public health concerns, including water quality, public safety, property damage, displacement, and post-disaster mental health problems. Prolonged and intensified droughts can also negatively groundwater reserves and result in increased overdraft and subsidence. The higher risk of wildfires can lead to increased erosion, which can negatively impact watersheds and result in poor water quality.

3.3 Regulatory Setting

3.3.1 Federal Regulations

Massachusetts v. EPA

In *Massachusetts v. EPA* (April 2007), the U.S. Supreme Court directed the EPA administrator to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In December 2009, the administrator signed a final rule with the following two distinct findings regarding GHGs under section 202(a) of the federal Clean Air Act:

- The administrator found that elevated concentrations of GHGs—CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6—in the atmosphere threaten the public health and welfare of current and future generations. This is the "endangerment finding."
- The administrator further found that the combined emissions of GHGs—CO_2, CH_4, N_2O, and HFCs—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is the "cause or contribute finding."

These two findings were necessary to establish the foundation for regulation of GHGs from new motor vehicles as air pollutants under the Clean Air Act (42 U.S.C. Section 7401).

Energy Independence and Security Act

The Energy Independence and Security Act of 2007 (Public Law 110-140), among other key measures, included the following measures to aid in the reduction of national GHG emissions:

- Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020, and directs National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
- Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy-efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

Federal Vehicle Standards

In 2007, in response to the *Massachusetts v. EPA* U.S. Supreme Court ruling, the Bush Administration issued Executive Order (EO) 13432 directing the EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011; and, in 2010, the EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012 through 2016 (75 Fed. Reg. 25324–25728).

In 2010, President Obama issued a memorandum directing the Department of Transportation, Department of Energy, EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017 through 2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO_2 in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017 through 2021 (77 Fed. Reg. 62624–63200). On January 12, 2017, the EPA finalized its decision to maintain the current GHG emissions standards for model years 2022–2025 cars and light trucks.

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014 through 2018. The standards for CO_2 emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6% to 23% over the 2010 baselines (76 Fed. Reg. 57106–57513).

In August 2016, the EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all sizes of buses and work trucks. The final standards are expected to lower CO_2 emissions by approximately 1.1 billion MT and reduce oil consumption by up to 2 billion barrels over the lifetime of the vehicles sold under the program (EPA and NHTSA 2016).

On April 2, 2018, the EPA, under administrator Scott Pruitt, reconsidered the final determination for light-duty vehicles and withdrew its previous 2017 determination, stating that the current standards may be too stringent and therefore should be revised as appropriate (EPA 2018).

In August 2018, EPA and NHTSA proposed to amend certain fuel economy and GHG standards for passenger cars and light trucks and establish new standards for model years 2021 through 2026. Compared to maintaining the post-2020 standards then in place, the 2018 proposal would increase U.S. fuel consumption by about half a million barrels per day (2% to 3% of total daily consumption, according to the Energy Information Administration) and would impact the global climate by 3/1000th of one degree Celsius by 2100 (EPA and NHTSA 2018). California and other states have stated their intent to challenge federal actions that would delay or eliminate GHG reduction measures and have committed to cooperating with other countries to implement global climate change initiatives.

In 2019, the EPA and NHTSA published the Safer Affordable Fuel-Efficient Vehicles Rule Part One: One National Program (SAFE-1) (84 Fed. Reg. 51310), which revoked California's authority to set its own GHG emissions standards and set zero-emission vehicle (ZEV) mandates in California. In March 2020, Part Two was issued which set CO_2 emissions standards and corporate average fuel economy standards for passenger vehicles and light-duty trucks for model years 2021 through 2026. In March 2022, EPA reinstated California's authority under the Clean Air Act to implement its own GHG emission standards and ZEV sales mandate. EPA's action concludes its reconsideration of the 2019 SAFE-1 rule by finding that the actions taken under the previous administration as a part of SAFE-1 were decided in error and are now entirely rescinded.

Executive Order 13990

On January 20, 2021, President Biden issued Executive Order (EO) 13990, "Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis." Section 7(e) of this EO directs the White House Council on Environmental Quality (CEQ) to rescind the 2019 Draft GHG Guidance and review, revise, and update its 2016 GHG Guidance. Among its key provisions, the order directed federal agencies to review and potentially revise a range of policies, regulations, and actions that were inconsistent with the Biden administration's commitment to combatting climate change and promoting environmental sustainability. The order also sought to reestablish interagency working groups and committees that had been disbanded or sidelined during the previous administration, with a focus on restoring evidence-based decision-making processes.

The Interagency Working Group on the Social Cost of Greenhouse Gases (IWG) is a collaborative effort involving multiple U.S. federal agencies with the goal of providing scientifically sound estimates for the social cost of greenhouse gases (SC-GHG). This metric assigns a monetary value to the long-term damages caused by the emission of carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O) emissions, considering their impacts on climate change, public health, ecosystems, and the economy. The IWG under the authority of Executive Order 13990 released the "Technical Support Document: Social Cost of Carbon, Methane, and Nitrous Oxide Interim Estimates under Executive Order 13990" in February 2021. The Technical Support Document contains methodologies, data and analyses used by the IWG to develop interim estimates for the social cost of carbon ($SC\text{-}CO_2$), methane ($SC\text{-}CH_4$), and nitrous oxide ($SC\text{-}N_2O$) emissions under EO 13990.

Inflation Reduction Act of 2022

The Inflation Reduction Act was signed into law by President Biden in August 2022. The bill includes specific investment in energy and climate reform and is projected to reduce GHG emissions within the U.S. by 40 percent as compared to 2005 levels by 2030. The bill allocates funds to boost renewable energy infrastructure (e.g., solar panels and wind turbines), includes tax credits for the purchase of electric vehicles, and includes measures that make homes more energy efficient.

3.3.2 State Regulations

The statewide GHG emissions regulatory framework is summarized in this subsection by category: state climate change targets, building energy, renewable energy and energy procurement, mobile sources, water, solid waste, and other state actions. The following text describes EOs, ABs, Senate Bills (SBs), and other plans and policies that would directly or indirectly reduce GHG emissions and/or address climate change issues.

State Climate Change Targets

Executive Order S-3-05

EO S-3-05 (June 2005) established California's GHG emissions-reduction targets and laid out responsibilities among the state agencies for implementing the EO and for reporting on progress toward the targets. This EO established the following targets:

- By 2010, reduce GHG emissions to 2000 levels
- By 2020, reduce GHG emissions to 1990 levels

- By 2050, reduce GHG emissions to 80% below 1990 levels

EO S-3-05 also directed the California EPA to report biannually on progress made toward meeting the GHG targets and the impacts to California due to global warming, including impacts to water supply, public health, agriculture, the coastline, and forestry.

Executive Order B-30-15

EO B-30-15 (April 2015) identified an interim GHG-reduction target in support of targets previously identified under S-3-05 and AB 32. EO B-30-15 set an interim target goal of reducing GHG emissions to 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050, as set forth in S-3-05. To facilitate achieving this goal, EO B-30-15 called for CARB to update the Scoping Plan to express the 2030 target in terms of MMT CO_2e. The EO also called for state agencies to continue to develop and implement GHG emission-reduction programs in support of the reduction targets.

Executive Order B-55-18

EO B-55-18 (September 2018) establishes a statewide policy for the state to achieve carbon neutrality as soon as possible (no later than 2045) and achieve and maintain net negative emissions thereafter. The goal is an addition to the existing statewide targets of reducing the state's GHG emissions. CARB will work with relevant state agencies to ensure that future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal.

Assembly Bill 32

In furtherance of the goals established in EO S-3-05, the Legislature enacted AB 32, the California Global Warming Solutions Act of 2006 (California Health and Safety Code Sections 38500-38599 et seq.). AB 32 provided initial direction on creating a comprehensive multiyear program to limit California's GHG emissions at 1990 levels by 2020, and initiate the transformations required to achieve the state's long-range climate objectives.

Senate Bill 32 and Assembly Bill 197

Senate Bill (SB) 32 and AB 197 (enacted in 2016) are companion bills. SB 32 codified the 2030 emissions-reduction goal of EO B-30-15 by requiring CARB to ensure that statewide GHG emissions are reduced to 40% below 1990 levels by 2030. AB 197 established the Joint Legislative Committee on Climate Change Policies, consisting of at least three members of the Senate and three members of the Assembly, in order to provide ongoing oversight over implementation of the state's climate policies. AB 197 also added two members of the Legislature to the Board as nonvoting members; requires CARB to make available and update (at least annually via its website) emissions data for GHGs, criteria air pollutants, and toxic air contaminants from reporting facilities; and requires CARB to identify specific information for GHG emissions-reduction measures when updating the scoping plan.

California Air Resources Board's Climate Change Scoping Plan

One specific requirement of AB 32 is for CARB to prepare a "scoping plan" for achieving the maximum technologically feasible and cost-effective GHG emission reductions by 2020 (California Health and Safety Code Section 38561[a]), and to update the plan at least once every 5 years. In 2008, CARB approved the first scoping plan: The *Climate Change Proposed Scoping Plan: A Framework for Change* (Scoping Plan). The Scoping Plan included a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary

measures, policies, and other emission-reduction programs calculated to meet the 2020 statewide GHG emission limit and initiate the transformations needed to achieve the state's long-range climate objectives.

In 2014, CARB approved the first update to the Scoping Plan. The *First Update to the Climate Change Scoping Plan: Building on the Framework* (First Update) defined the state's GHG emission reduction priorities for the next 5 years and laid the groundwork to start the transition to the post-2020 goals set forth in EOs S-3-05 and B-16-2012 (CARB 2014). The First Update concluded that California was on track to meet the 2020 target but recommended a 2030 mid-term GHG reduction target be established to ensure a continuum of action to reduce emissions. The First Update recommended a mix of technologies in key economic sectors to reduce emissions through 2050 including energy demand reduction through efficiency and activity changes; large-scale electrification of on-road vehicles, buildings and industrial machinery; decarbonizing electricity and fuel supplies; and the rapid market penetration of efficient and clean energy technologies.

In December 2017, CARB released the *2017 Climate Change Scoping Plan Update* (Second Update) for public review and comment (CARB 2017a). The Second Update built upon the successful framework established in the initial Scoping Plan and First Update, while identifying new technologically feasible and cost-effective strategies that served as the framework to achieve the 2030 GHG target and define the state's climate change priorities to 2030 and beyond. The strategies' "known commitments" included implementing renewable energy and energy efficiency (including the mandates of SB 350), increased stringency of the Low Carbon Fuel Standard (LCFS), measures identified in the Mobile Source and Freight Strategies, measures identified in the proposed Short-Lived Climate Pollutant Plan, and increased stringency of SB 375 targets. To fill the gap in additional reductions needed to achieve the 2030 target, the Second Update recommended continuing the Cap-and-Trade Program and a measure to reduce GHGs from refineries by 20%. The Second Update was approved by CARB's Governing Board on December 14, 2017.

CARB approved the *2022 Scoping Plan for Achieving Carbon Neutrality* in December 2022, which outlines the state's plan to reduce anthropogenic emissions to 85 percent below 1990 levels by 2045, and achieve carbon neutrality by 2045 or earlier. The Plan also assesses the progress the state is making toward reducing GHG emissions by at least 40% below 1990 levels by 2030, as is required by SB 32 and laid out in the Second Update. The carbon neutrality goal requires CARB to expand proposed actions from only the reduction of anthropogenic sources of GHG emissions to also include those that capture and store carbon (e.g., through natural and working lands, or mechanical technologies). The carbon reduction programs build on and accelerate those currently in place, including moving to zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing use of chemicals and refrigerants with high GWP; providing communities with sustainable options for walking, biking, and public transit; displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines); and scaling up new options such as green hydrogen[16]. The *2022 Scoping Plan for Achieving Carbon Neutrality* also introduces stringent per capita VMT reductions of 25% below 2019 levels by 2030, and 30% below 2019 levels by 2045 (CARB 2022c).

The *2022 Scoping Plan for Achieving Carbon Neutrality* also emphasizes that there is no realistic path to carbon neutrality without carbon removal and sequestration, and to achieve the state's carbon neutrality goal, carbon reduction programs must be supplemented by strategies to remove and sequester carbon. Strategies for carbon

[16] Green hydrogen refers to hydrogen that is generated by renewable energy or from low-carbon power, and has significantly lower associated carbon emissions than grey hydrogen, which is produced using natural gas and makes up the majority of hydrogen production. For the purposes of the *Draft 2022 Scoping Plan*, the term "green hydrogen" is not limited to only electrolytic hydrogen produced from renewables.

removal and sequestration include carbon capture and storage (CCS) from anthropogenic point sources, where CO_2 is captured as it leaves a facility's smokestack and is injected into geologic formations or used in industrial materials (e.g., concrete); and carbon dioxide removal (CDR) from ambient air, through mechanical (e.g., direct air capture with sequestration [DACS]) or nature-based (e.g., management of natural and working lands) applications.

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32, SB 32, AB 1279(see below), and the EOs; it also establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. A project is considered consistent with the statutes and EOs if it would meet the general policies in reducing GHG emissions in order to facilitate the achievement of the state's goals and would not impede attainment of those goals.

California Air Resources Board's Regulations for the Mandatory Reporting of Greenhouse Gas Emissions

CARB's Regulation for the Mandatory Reporting of Greenhouse Gas Emissions (Cal. Code Regs. tit. 17, Section 95100–95157) incorporated by reference certain requirements that EPA promulgated in its Final Rule on Mandatory Reporting of Greenhouse Gases (40 Code of Federal Regulations Section 98). Specifically, section 95100(c) of the Mandatory Reporting Regulation incorporated those requirements that EPA promulgated in the *Federal Register* on October 30, 2009; July 12, 2010; September 22, 2010; October 28, 2010; November 30, 2010; December 17, 2010; and April 25, 2011. In general, entities subject to the Mandatory Reporting Regulation that emit over 10,000 MT CO_2e per year are required to report annual GHGs through the California Electronic GHG Reporting Tool. Certain sectors, such as refineries and cement plants, are required to report regardless of emission levels. Entities that emit more than the 25,000 MT CO_2e per year threshold are required to have their GHG emissions report verified by a CARB-accredited third party.

Executive Order B-18-12

EO B-18-12 (April 2012) directed state agencies, departments, and other entities under the Governor's executive authority to take action to reduce entity-wide GHG emissions by at least 10% by 2015 and 20% by 2020, as measured against a 2010 baseline. EO B-18-12 also established goals for existing state buildings for reducing grid-based energy purchases and water use.

Senate Bill 605 and Senate Bill 1383

SB 605 (2014) requires CARB to complete a comprehensive strategy to reduce emissions of short-lived climate pollutants (SLCPs) in the state (California Health and Safety Code Section 39730); and SB 1383 (2016) requires CARB to approve and implement that strategy by January 1, 2018 (Cal. PRC Section 42652-43654). SB 1383 also establishes specific targets for the reduction of SLCPs (40% below 2013 levels by 2030 for CH_4 and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon) and provides direction for reductions from dairy and livestock operations and landfills. Accordingly, and as mentioned above, CARB adopted its *Short-Lived Climate Pollutant Reduction Strategy* (SLCP Reduction Strategy) in March 2017. The SLCP Reduction Strategy establishes a framework for the statewide reduction of emissions of black carbon, methane, and fluorinated gases (CARB 2017b).

Assembly Bill 1279

The Legislature enacted AB 1279, the California Climate Crisis Act, in September 2022. The bill declares the policy of the state to achieve net zero GHG emissions as soon as possible, but no later than 2045, and achieve and maintain net negative GHG emissions thereafter.

Although AB 1279 establishes an overall policy to achieve net zero GHG emissions as soon as possible, but no later than 2045, recognizing the need to implement carbon dioxide removal and carbon capture, utilization and storage technologies, the Legislature established a specific target of 85% below 1990 levels by 2045 for anthropogenic GHG emissions. Therefore, the net zero target does not directly apply to development projects, but the 2045 target of 85% below 1990 levels represents the reductions required to accomplish the state's overall net zero policy.

Building Energy

California Code of Regulations, Title 24, Part 6

The California Building Standards Code was established in 1978 and serves to enhance and regulate California's building standards. While not initially promulgated to reduce GHG emissions, Part 6 of Title 24 specifically established Building Energy Efficiency Standards that are designed to ensure that new and existing buildings in California achieve energy efficiency and preserve outdoor and indoor environmental quality. These energy efficiency standards are reviewed every few years by the Building Standards Commission and the California Energy Commission (CEC), and revised if necessary (Cal. Pub. Resources Code [PRC] Section 25402(b)(1)). The regulations receive input from members of industry, as well as the public, in order to "reduce the wasteful, uneconomic, inefficient, or unnecessary consumption of energy" (Cal. PRC Section 25402). These regulations are carefully scrutinized and analyzed for technological and economic feasibility (Cal. PRC Section 25402(d)) and cost effectiveness (Cal. PRC Section 25402(b)(2–3)). As a result, these standards save energy, increase electricity supply reliability, increase indoor comfort, avoid the need to construct new power plants, and help preserve the environment.

The current 2022 standards improve upon the 2019 standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The CEC updates the Title 24 Energy Code every 3 years. The CEC adopted the 2022 Title 24 Energy Code in August 2021 and the California Building Standards Commission approved incorporating the updated code into the California Building Standards Code (CALGreen) in December 2021. The 2022 Energy Code went into effect on January 1, 2023. When compared to the 2019 Title 24 Standards, the 2022 amendments include measures that further reduce energy use in single family, multifamily, and nonresidential buildings, through the following strategies (CEC 2021a):

- New prescriptive and performance standards for electric heat pumps for space conditioning and water heating, as appropriate for the various climate zones in California,
- Require PV and battery storage systems for newly constructed multifamily and selected nonresidential buildings,
- Updated efficiency measures for lighting, building envelope, heating, ventilation, and air conditioning (HVAC), and
- Improvements to reduce the energy loads of certain equipment subject to the requirements of the Energy Code that perform a commercial process that is not related to the occupant needs in the building (such as

refrigeration equipment in refrigerated warehouses, or air conditioning for computer equipment in data processing centers).

California Code of Regulations, Title 24, Part 11

In addition to the CEC's efforts, in 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as California's Green Building Standards (CALGreen) and establishes minimum mandatory standards and voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The CALGreen standards took effect in January 2011 and instituted mandatory minimum environmental performance standards for all ground-up, new construction of commercial, low-rise residential and state-owned buildings and schools and hospitals. The 2022 CALGreen standards are the current applicable standards. For nonresidential projects, some of the key mandatory CALGreen standards involve requirements related to bicycle parking, designated parking for clean air vehicles, EV charging stations, shade trees, water conserving plumbing fixtures and fittings, outdoor potable water use in landscaped areas, recycled water supply systems, construction waste management, excavated soil and land clearing debris, and commissioning (Cal. Code Regs. tit. 24, Part 11).

Assembly Bill 1109

AB 1109 (2007) required the CEC to adopt minimum energy efficiency standards for general-purpose lighting to reduce electricity consumption by 50% for indoor residential lighting and by 25% for indoor commercial lighting (Cal. PRC Section 25402.5.4).

Renewable Energy and Energy Procurement

Senate Bill 1078

SB 1078 (2002) (Cal. PRC Section 399.11 et seq.) established the Renewables Portfolio Standard (RPS) program, which required an annual increase in renewable generation by the utilities equivalent to at least 1% of sales, with an aggregate goal of 20% by 2017. This goal was subsequently accelerated, requiring utilities to obtain 20% of their power from renewable sources by 2010 (see SB 107, EO S-14-08, and EO S-21-09).

Senate Bill 1368

SB 1368 (2006) required the CEC to develop and adopt regulations for GHG emission performance standards for the long-term procurement of electricity by local publicly owned utilities (California Public Utilities Code Section 8340-8341 et seq.). These standards must be consistent with the standards adopted by the California Public Utilities Commission (CPUC).

Executive Order S-14-08

EO S-14-08 (2008) focused on the contribution of renewable energy sources to meet the electrical needs of California while reducing the GHG emissions from the electrical sector. This EO required that all retail suppliers of electricity in California serve 33% of their load with renewable energy by 2020. Furthermore, the EO directed state agencies to take appropriate actions to facilitate reaching this target. The CNRA, through collaboration with CEC and the California Department of Fish and Wildlife, was directed to lead this effort.

Executive Order S-21-09 and Senate Bill X1-2

EO S-21-09 (2009) directed CARB to adopt a regulation consistent with the goal of EO S-14-08 by July 31, 2010. CARB was further directed to work with CPUC and CEC to ensure that the regulation builds upon the RPS program and was applicable to investor-owned utilities, publicly owned utilities, direct access providers, and community choice providers. Under this order, CARB was to give the highest priority to those renewable resources that provide the greatest environmental benefits with the least environmental costs and impacts on public health, and those that can be developed the most quickly in support of reliable, efficient, cost-effective electricity system operations. On September 23, 2010, CARB initially approved regulations to implement a Renewable Electricity Standard; however, this regulation was not finalized because of subsequent legislation (SB X1-2) signed by Governor Brown in April 2011.

SB X1-2 expanded RPS by establishing a renewable energy target of 20% of the total electricity sold to retail customers in California per year by December 31, 2013, and 33% by December 31, 2020, and in subsequent years. Under the bill, a renewable electrical generation facility is one that uses biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation (30 megawatts or less), digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location.

SB X1-2 applies to all electricity retailers in the state, including publicly owned utilities, investor-owned utilities, electricity service providers, and community choice aggregators. All of these entities must meet the renewable energy goals listed above.

Senate Bill 350

SB 350 (2015) further expanded the RPS program by establishing a goal of 50% of the total electricity sold to retail customers in California per year by December 31, 2030. In addition, SB 350 included the goal to double the energy efficiency savings in electricity and natural gas final end uses (such as heating, cooling, lighting, or class of energy uses on which an energy-efficiency program is focused) of retail customers through energy conservation and efficiency. The bill also requires the CPUC, in consultation with the CEC, to establish efficiency targets for electrical and gas corporations consistent with this goal.

Senate Bill 100

SB 100 (2018) increased the standards set forth in SB 350, requiring that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California. This bill requires that the achievement of 100% zero-carbon electricity resources do not increase the carbon emissions elsewhere in the western grid and that the achievement not be accomplished through resource shuffling.

Senate Bill 1020

SB 1020 (2022) revises the standards from SB 100, requiring the following percentage of retail sales of electricity to California end-use customers come from eligible renewable energy resources and zero-carbon resources:

- 90% by December 31, 2035

- 95% by December 31, 2040
- 100% by December 31, 2045

Mobile Sources

State Vehicle Standards (Assembly Bill 1493 and Executive Order B-16-12)

AB 1493 (July 2002) was enacted in response to the transportation sector accounting for more than half of California's CO_2 emissions. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by the state board to be vehicles that are primarily used for noncommercial personal transportation in the state. The bill required that CARB set GHG emission standards for motor vehicles manufactured in 2009 and all subsequent model years. CARB adopted the standards in September 2004. EO B-16-12 (March 2012) required that state entities under the governor's direction and control support and facilitate the rapid commercialization of zero-emissions vehicles. It ordered CARB, CEC, CPUC, and other relevant agencies to work with the Plug-in Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to help achieve goals established for 2015, 2020, and 2025. On a statewide basis, EO B-16-12 established a target reduction of GHG emissions from the transportation sector equaling 80% less than 1990 levels by 2050. This directive did not apply to vehicles that have special performance requirements necessary for the protection of the public safety and welfare. As explained under the "Federal Vehicle Standards" description above, EPA and NHTSA approved the SAFE Vehicles Rule Part One and Two, which revoked California's authority to set its own GHG emissions standards and set zero-emission vehicle mandates in California. As the EPA rule is the subject of pending legal challenges, this analysis continues to utilize the best available information at this time, as set forth in EMFAC.

Heavy-Duty Diesel

CARB adopted the final Heavy-Duty Truck and Bus Regulation on December 31, 2014, to reduce diesel particulate matter, a major source of black carbon, and oxides of nitrogen emissions from heavy-duty diesel vehicles (Cal. Code Regs. tit. 13, Section 2025). The rule requires diesel particulate matter filters be applied to newer heavier trucks and buses by January 1, 2012, with older vehicles required to comply by January 1, 2015. The rule will require nearly all diesel trucks and buses to be compliant with the 2010 model year engine requirement by January 1, 2023. CARB also adopted an Airborne Toxic Control Measure to limit idling of diesel-fueled commercial vehicles on December 12, 2013. This rule requires diesel-fueled vehicles with gross vehicle weights greater than 10,000 pounds to idle no more than 5 minutes at any location (Cal. Code Regs. tit. 13, Section 2485).

Executive Order S-1-07

EO S-1-07 (2007) implementing regulation adopted in April 2009, sets a declining Low Carbon Fuel Standard (LCFS) for GHG emissions measured in CO_2e grams per unit of fuel energy sold in California. The target of the LCFS is to reduce the carbon intensity of California passenger vehicle fuels by at least 10% by 2020 (Cal. Code Regs. tit. 17, Section 95480 et seq.). The carbon intensity measures the amount of GHG emissions in the lifecycle of a fuel—including extraction/feedstock production, processing, transportation, and final consumption—per unit of energy delivered.

Senate Bill 375

SB 375 (California Government Code Section 65080 amendment, 2008) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 requires CARB to adopt regional GHG-reduction targets for the automobile and light-truck sector for 2020 and 2035, and to update those targets every 8 years. SB 375 requires the state's 18 regional metropolitan planning organizations (MPOs) to prepare a sustainable communities strategy (SCS) as part of their RTP that will achieve the GHG-reduction targets set by CARB. If an MPO is unable to devise an SCS to achieve the GHG-reduction target, the MPO must prepare an Alternative Planning Strategy demonstrating how the GHG-reduction target would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies.

A SCS does not: (i) regulate the use of land; (ii) supersede the land use authority of cities and counties; or (iii) require that a city or county's land use policies and regulations, including those in a general plan, be consistent with it (California Government Code Section 65080[b][2][K]). Nonetheless, SB 375 makes regional and local planning agencies responsible for developing those strategies as part of the federally required metropolitan transportation planning process and the state-mandated housing element process. The SCS applicable to the County is the Southern California Association of Governments (SCAG) RTP/SCS. The SCAG 2020–2045 RTP/SCS is a regional growth management strategy that targets per capita GHG reduction from passenger vehicles and light trucks in the Southern California Region pursuant to SB 375.

Advanced Clean Cars Program and Zero-Emissions Vehicle Program

The Advanced Clean Cars (ACC) I program (2012) is an emissions-control program for model years 2015 through 2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package of regulations: the Low-Emission Vehicle regulation for criteria air pollutant and GHG emissions and a technology forcing regulation for zero emission vehicles (ZEVs) that contributes to both types of emission reductions (CARB 2022c). The package includes elements to reduce smog-forming pollution, reduce GHG emissions, promote clean cars, and provide the fuels for clean cars. To improve air quality, CARB has implemented new emission standards to reduce smog-forming emissions beginning with 2015 model year vehicles. It is estimated that in 2025 cars will emit 75% less smog-forming pollution than the average new car sold in 2015. The ZEV program will act as the focused technology of the ACC I program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid EVs in the 2018 to 2025 model years.

The ACC II program is currently in development to establish the next set of low-emission vehicle and ZEV requirements for model years after 2025 to contribute to meeting federal ambient air quality ozone standards and California's carbon neutrality standards (CARB 2022c). The main objectives of ACC II are:

1. Maximize criteria and GHG emission reductions through increased stringency and real-world reductions.
2. Accelerate the transition to ZEVs through both increased stringency of requirements and associated actions to support wide-scale adoption and use.

An ACC II rulemaking package, which will consider technological feasibility, environmental impacts, equity, economic impacts, and consumer impacts, is anticipated to be presented to CARB for consideration in June 2022. However, as detailed previously, EPA and NHTSA published the SAFE Vehicles Rule, which revokes California's authority to set its own GHG emissions standards and set ZEV mandates in California. Since California and 22 other

states, as well as the District of Columbia and four cities, filed suit against the EPA and a petition for reconsideration of the SAFE Rule, the ACC II rulemaking's course may vary depending on the results of this ongoing litigation.

Executive Order N-79-20

EO N-79-20 (September 2020) requires CARB to develop regulations as follows: (1) Passenger vehicle and truck regulations requiring increasing volumes of new ZEVs sold in the State towards the target of 100% of in-state sales by 2035; (2) medium- and heavy-duty vehicle regulations requiring increasing volumes of new zero-emission trucks and buses sold and operated in the state towards the target of 100% of the fleet transitioning to zero-emission vehicles by 2045 everywhere feasible and for all drayage trucks to be zero emission by 2035; and (3) strategies, in coordination with other state agencies, the EPA and local air districts, to achieve 100% zero-emission from off-road vehicles and equipment operations in the State by 2035. EO N-79-20 called for the development of a Zero-Emissions Vehicle Market Development Strategy, which was released February 2021, to be updated every 3 years, that ensures coordination and implementation of the EO and outlines actions to support new and used ZEV markets. In addition, the EO specifies identification of near-term actions, and investment strategies, to improve clean transportation, sustainable freight, and transit options; and calls for development of strategies, recommendations, and actions by July 15, 2021, to manage and expedite the responsible closure and remediation of former oil extraction sites as the State transitions to a carbon-neutral economy.

Advanced Clean Trucks Regulation

The Advanced Clean Trucks Regulation was also approved by CARB in 2020. The purpose of the regulation is to accelerate the market for ZEVs in the medium- and heavy-duty truck sector and to reduce air pollutant emissions generated from on-road mobile sources (CARB 2022d). The regulation has two components including (1) a manufacturer sales requirement and (2) a reporting requirement:

- Zero-emission truck sales: Manufacturers who certify Class 2b-8 chassis or complete vehicles with combustion engines will be required to sell zero-emission trucks as an increasing percentage of their annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales would need to be 55% of Class 2b – 3 truck sales, 75% of Class 4 – 8 straight truck sales, and 40% of truck tractor sales.
- Company and fleet reporting: Large employers including retailers, manufacturers, brokers and others will be required to report information about shipments and shuttle services. Fleet owners, with 50 or more trucks, will be required to report about their existing fleet operations. This information will help identify future strategies to ensure that fleets purchase available zero-emission trucks and place them in service where suitable to meet their needs.

Water

Senate Bill X7-7

SB X7-7, or the Water Conservation Act of 2009, required that all water suppliers increase their water use efficiency with an overall goal of reducing per capita urban water use by 20% by December 31, 2020. Each urban water supplier was required to develop water use targets to meet this goal.

Executive Order B-29-15

In response to the ongoing drought in California, EO B-29-15 (April 2015) set a goal of achieving a statewide reduction in potable urban water usage of 25% relative to water use in 2013. The term of the EO extended through February 28, 2016, although many of the directives have become permanent water-efficiency standards and requirements. The EO includes specific directives that set strict limits on water usage in the state. In response to EO B-29-15, the California Department of Water Resources has modified and adopted a revised version of the Model Water Efficient Landscape Ordinance that, among other changes, significantly increases the requirements for landscape water use efficiency and broadens its applicability to include new development projects with smaller landscape areas.

Executive Order N-10-21

In response to a state of emergency due to severe drought conditions, EO N-10-21 (July 2021) called on all Californians to voluntarily reduce their water use by 15% from their 2020 levels. Actions suggested in EO N-10-21 include reducing landscape irrigation, running dishwashers and washing machines only when full, finding and fixing leaks, installing water-efficient showerheads, taking shorter showers, using a shut-off nozzle on hoses, and taking cars to commercial car washes that use recycled water.

Solid Waste

Assembly Bill 939, Assembly Bill 341, Assembly Bill 1826, and Senate Bill 1383

In 1989, AB 939, known as the Integrated Waste Management Act (Cal. PRC Section 40000 et seq.), was passed because of the increase in waste stream and the decrease in landfill capacity. The statute established the California Integrated Waste Management Board (replaced in 2010 by the California Department of Resources Recycling and Recovery, or CalRecycle), which oversees a disposal reporting system. AB 939 required jurisdictions to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by the year 2000.

AB 341 (2011) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by the year 2020, and annually thereafter. In addition, AB 341 required CalRecycle to develop strategies to achieve the state's policy goal. CalRecycle has conducted multiple workshops and published documents that identify priority strategies that it believes would assist the state in reaching the 75% goal by 2020.

AB 1826 (Chapter 727, Statutes of 2014, effective 2016) requires businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) depending on the amount of waste they generate per week. This law also requires local jurisdictions across the state to implement an organic waste recycling program to divert organic waste generated by businesses, including multi-family residential dwellings that consist of five or more units. The minimum threshold of organic waste generation by businesses decreases over time, which means an increasingly greater proportion of the commercial sector will be required to comply.

SB 1383 (2016) requires a 50% reduction in organic waste disposal from 2014 levels by 2020, and a 75% reduction by 2025—essentially requiring the diversion of up to 27 million tons of organic waste—to reduce GHG

emissions. SB 1383 also requires that not less than 20% of edible food that is currently disposed be recovered for human consumption by 2025.

Other State Actions

Senate Bill 97

SB 97 (2007) directed the Governor's Office of Planning and Research (OPR)[17] and the CNRA to develop guidelines under CEQA for the mitigation of GHG emissions. In 2008, OPR issued a technical advisory as interim guidance regarding the analysis of GHG emissions in CEQA documents. The advisory indicated that the lead agency should identify and estimate a project's GHG emissions, including those associated with vehicular traffic, energy consumption, water usage, and construction activities (OPR 2007). The advisory further recommended that the lead agency determine significance of the impacts and impose all mitigation measures necessary to reduce GHG emissions to a level that is less than significant. The CNRA adopted the CEQA Guidelines amendments in December 2009, which became effective in March 2010.

Under the CEQA Guidelines, a lead agency has the discretion to determine whether to use a quantitative or qualitative analysis or apply performance standards to determine the significance of GHG emissions resulting from a particular project (Cal. Code Regs. tit. 14, Section 15064.4[a]). The CEQA Guidelines require a lead agency to consider the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (Cal. Code Regs. tit. 14, Section 15064.4[b]). The CEQA Guidelines also allow a lead agency to consider feasible means of mitigating the significant effects of GHG emissions, including reductions in emissions through the implementation of project features or off-site measures (Cal. Code Regs. tit. 14, Section 15126.4[c]). The adopted amendments do not establish a GHG emission threshold, instead allowing a lead agency to develop, adopt, and apply its own thresholds of significance or those developed by other agencies or experts. The CNRA also acknowledged that a lead agency could consider compliance with regulations or requirements implementing AB 32 in determining the significance of a project's GHG emissions (CNRA 2009). The County's GHG reduction plan is discussed in Section 3.3.3.3.

With respect to GHG emissions, CEQA Guidelines Section 15064.4(a), as subsequently amended in 2018, states that lead agencies "shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions. The CEQA Guidelines now note that an agency "shall have discretion to determine, in the context of a particular project, whether to: (1) [q]uantify greenhouse gas emissions resulting from a project; and/or (2) [r]ely on a qualitative analysis or performance-based standards" (Cal. Code Regs. tit. 14, Section 15064.4[a]). Section 15064.4(b) states that the lead agency should consider the following when assessing the significance of impacts from GHG emissions on the environment: (1) the extent a project may increase or reduce GHG emissions as compared to the existing environmental setting; (2) whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and (3) the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (Cal. Code Regs. tit. 14, Section 15064.4[b]).

Executive Order S-13-08

EO S-13-08 (November 2008) is intended to hasten California's response to the impacts of global climate change, particularly sea-level rise. Therefore, the EO directs state agencies to take specified actions to assess and plan for

[17] Recently renamed the Governor's Office of Land Use and Climate Innovation.

such impacts. The final *2009 California Climate Adaptation Strategy* report was issued in December 2009, and an update, *Safeguarding California: Reducing Climate Risk*, followed in July 2014. To assess the state's vulnerability, the report summarizes key climate change impacts to the state for the following areas: Agriculture, Biodiversity and Habitat, Emergency Management, Energy, Forestry, Ocean and Coastal Ecosystems and Resources, Public Health, Transportation, and Water. Issuance of the *Safeguarding California: Implementation Action Plans* followed in March 2016. In January 2018, the CNRA released the *Safeguarding California Plan: 2018 Update,* which communicates current and needed actions that state government should take to build climate change resiliency.

3.3.3 Local Regulations

3.3.3.2 Mojave Desert Air Quality Management District

The Project site is under the jurisdiction of the MDAQMD. The MDAQMD has adopted GHG emissions thresholds in its CEQA Guidelines but has not adopted a comprehensive strategy for reducing GHG emissions. The MDAQMD threshold is 100,000 tons of CO_2e per year, or approximately 90,718 MT CO_2e per year (MDAQMD 2020).

3.3.3.3 San Bernardino County Countywide Plan/Policy Plan

The Countywide Policy Plan contains the long-term goals and policies that guide County decisions, investments, and improvements toward achieving the Countywide Vision. The Policy Plan represents a unique approach to county planning. It serves as the County's General Plan for the unincorporated areas, which is mandated by state law, but it also includes policy direction for adult and child supportive services, healthcare, public safety, and other regional services the County administers in both incorporated and unincorporated areas. The Policy Plan policies from the Natural Resources Element and the Renewable Energy & Conservation Element related to GHG emissions are as follows:

Natural Resources Element

Policy NR-1.1
Promote compact and transit-oriented development countywide and regulate the types and locations of development in unincorporated areas to minimize vehicle miles traveled and greenhouse gas emissions

Policy NR-1.7
Strive to meet the 2040 and 2050 greenhouse gas emission reduction targets in accordance with state law.

Policy NR-1.8
Invest in County facilities and fleet vehicles to improve energy efficiency and reduce emissions. We encourage County contractors and other builders and developers to use low-emission construction vehicles and equipment to improve air quality and reduce emissions.

Policy NR-1.9
Use the CALGreen Code to meet energy efficiency standards for new buildings and encourage the upgrading of existing buildings to incorporate design elements, building materials, and fixtures that improve environmental sustainability and reduce emissions.

Renewable Energy & Conservation Element

Policy RE-1.1
Continue implementing the energy conservation and efficiency measures identified in the County of San Bernardino Greenhouse Gas Emissions Reduction Plan.

Policy RE-1.2
Optimize energy efficiency in the built environment

- RE 1.2.6: Encourage new development to comply with the optional energy efficiency measures of the CALGreen Code.

Policy RE-2.1
Support solar energy generation, solar water heating, wind energy and bioenergy systems that are consistent with the orientation, siting and environmental compatibility policies of the General Plan

- RE 2.1.1: Utilize renewable energy development standards in the Development Code to minimize impacts on surrounding properties.

Policy RE-2.2
Promote use of energy storage technologies that are appropriate for the character of the proposed location.

- RE 2.2.1: Encourage onsite energy storage with RE[18] generation facilities, consistent with County Development Code requirements.
- RE 2.2.2: Encourage and allow energy storage facilities as an accessory component of RE generation facilities.

Policy RE-2.3
Encourage the use of feasible emerging and experimental renewable energy technologies that are compatible with County regulatory standards.

- RE 2.3.1: Monitor emerging renewable energy technologies and amend County development standards as needed to accommodate suitable new technology types.
- RE 2.3.2: Monitor improvements in existing renewable energy technologies, and consider allowing additional types of renewable energy facilities as they become compatible with County regulatory standards.

Policy RE-2.5
Support renewable energy systems that accelerate zero net energy (ZNE) through innovative design, construction, and operations of residences, businesses, and institutions that are grid-neutral and independent of centralized energy infrastructure.

- RE 2.5.1: Allow and encourage construction of new buildings designed to ZNE standards consistent with state programs.

[18] RE = Renewable Energy

- RE 2.5.2: Incorporate ZNE into outreach and educational strategies about renewable energy and energy efficiency.
- RE 2.5.4: Encourage energy independence and resiliency, including zero net energy and stand-alone systems not connected to the grid, in County economic development presentations and outreach efforts.

Policy RE-2.6

Encourage energy efficiency through appropriate renewable energy systems.

- RE 2.6.1: Pursue and consider development incentives such as density bonuses and streamlined permitting for projects that install accessory renewable energy facilities.
- RE 2.6.2: Allow developers of nonresidential properties to reduce required on-site parking spaces below minimum standards when space equivalent to the parking space reduction is devoted to renewable energy generation and storage facilities designed to serve onsite energy needs.
- RE 2.6.3: Encourage solar energy generation on rooftops and on covered parking as the first priority for on-site energy generation.

Policy RE-3.1

Prioritize, facilitate, and encourage onsite accessory RE generation to serve the unincorporated county, with a primary focus on rooftop and parking lot solar energy generation.

- RE 3.1.1: Permit rooftop, parking lot, and similar accessory RE generation facilities that primarily serve on-site energy needs in all zoning districts, including micro-grid systems, with minimal regulation and permitting requirements.

Policy RE-3.2

Encourage community-oriented renewable energy (CORE) generation that primarily serves local uses in the county.

- RE 3.2.1: Specific standards shall be established and maintained for community-oriented RE generation facilities appropriate to the Valley, Desert, and Mountain regions.
- RE 3.2.2: Encourage through the regulatory system the establishment of local and regional organizations to pursue community-oriented RE production and storage.
- RE 3.2.3: CORE facilities shall be designed primarily to meet the needs of the local users, with an adequate overage margin to meet peak demands and defray the cost of the systems.
- RE 3.2.3: Encourage utilities and developers to establish community-shared solar programs that allow residents and businesses to purchase shares of the output of RE generation facilities to offset their electricity bills.
- RE 3.2.4: Provide information and educational opportunities in the Countywide Plan Community Development Tool Kit for local organizations pursuing the acquisition of Community-Oriented Renewable Energy (CORE).
- RE 3.2.5: Encourage utilization of micro-grid technologies to support the principle of “local production primarily for local consumption,” to enhance local energy security and to improve local costs of living and commerce.
- RE 3.2.6: Apply minimal discretion in the permit approval process for CORE facilities.

- RE 3.2.7: Encourage infrastructure, net metering and regulatory systems that support CORE facilities.

Policy RE-3.3

Promote an adaptive distributed energy infrastructure that sustains local communities and improves resiliency to grid failures and increasing energy prices.

- RE 3.3.2: Encourage new institutional campuses and large residential/commercial developments to include micro-grids with onsite renewable energy generation and energy storage systems.

Policy RE-3.4

Require renewable energy facilities developed in spheres of influence of incorporated cities to be compatible and consistent with standards of the sphere cities.

Policy RE-3.6

Encourage renewable energy facilities to meet community goals, including supporting community health, wellness, and recreational needs.

- RE 3.6.2: Encourage the use of renewable energy facilities as shade structures in parks and community centers, and over parking lots and parking structures.

Policy RE-3.7

Continue to foster local economic benefits of renewable energy facilities through community involvement.

- RE 3.7.2: Encourage RE generation facility developers to give preference to San Bernardino County residents in hiring for construction, operation, and decommissioning of the facility.

County of San Bernardino Greenhouse Gas Emissions Reduction Plan

The County adopted its current Greenhouse Gas Emissions Reduction Plan (GHGRP) in 2011 and prepared a plan update in June 2021. As discussed in GHGRP, the 2021 GHGRP update may be used as GHG mitigation in the Countywide Plan, which is an update of the County's General Plan to demonstrate that the County's GHG reduction targets are aligned with state goals for reducing GHG emissions to a level less than cumulatively considerable. The GHGRP provided baseline greenhouse gas (GHG) emissions inventory for the year 2008, and targets to reduce the County's GHG emissions to 15% below baseline emissions by 2020. This was roughly equivalent to the 2008 Scoping Plan adopted by the State of California in 2008 that recommended a target of 15% below 'current' (2005-2008) levels by the year 2020. The County updated the GHG inventory for year 2016, which demonstrated that the County achieved the 2020 reduction target in that year. Since the adoption of the County's GHG Emissions Reduction Plan, the state has enacted new climate change regulations, most notably SB 32, which stipulates statewide targets to reduce GHG emissions to 40% below 1990 levels by 2030. AB 1279 and the CARB approved the *2022 Scoping Plan for Achieving Carbon Neutrality* in December 2022, which outlines the state's plan to reduce anthropogenic emissions to 85% below 1990 levels by 2045 and achieve carbon neutrality by 2045 or earlier. The Plan also assesses the progress the state is making toward reducing GHG emissions by at least 40% below 1990 levels by 2030, as is required by SB 32 and laid out in the Second Update. In the 2021 GHGRP update, the County has determined that reducing GHG emissions within the unincorporated county area 40% below the 2020 levels of emissions by 2030 matches the state's goal outlined in SB 32 and complements the statewide efforts outlined in the Scoping Plan putting the County on a path towards meeting the state's long-term goal to achieve zero net carbon emissions by 2045.

The County's CAP is a qualified GHG reduction plan under CEQA Guidelines Section 15183.5, and thus it can be used in a cumulative impacts analysis to determine significance. This is further discussed in Section 3.4.1.

3.4 Significance Criteria and Methodology

3.4.1 Thresholds of Significance

The significance criteria used to evaluate the Project's GHG emissions impacts is based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this GHG emissions analysis, the Project would have a significant environmental impact if it would (14 CCR 15000 et seq.):

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. There are currently no established thresholds for assessing whether the GHG emissions of a project, such as the proposed Project, would be considered a cumulatively considerable contribution to global climate change; however, all reasonable efforts should be made to minimize a project's contribution to global climate change. In addition, while GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008), GHG emissions impacts must also be evaluated on a project-level under CEQA.

The County's GHG Emissions Reduction Plan includes measures developed in order to reduce emissions within the unincorporated county area 40% below the 2016 levels of emissions by 2030. Mitigation of GHG emissions impacts during the development review process of projects provides a cost-effective way of implementing the GHG reduction strategies for reducing GHG emissions associated with new development. If the project does not qualify for a CEQA exemption, then the applicant needs to incorporate GHG reductions and implement the County's GHG Plan using a uniform set of performance standards applied to development projects. These performance standards are part of the County Development Code to ensure consistent application during development review. The complete Development Review Process, including the use of performance standards, for assessing and mitigating GHG emissions is outlined below.

a) County Performance Standards. All development projects, including those otherwise determined to be exempt from CEQA will be subject to applicable Development Code provisions, including the GHG performance standards, and state requirements, such as the California Building Code requirements for energy efficiency. With the application of the GHG performance standards, projects that are exempt from CEQA and small projects that do not exceed 3,000 MTCO2e per year will be considered to be consistent with the Plan and determined to have a less than significant individual and cumulative impact for GHG emissions.

b) Regulatory Agency Performance Standards. When, and if, Mojave Basin Air Quality Management District adopts standards, the County will consider such guidance and incorporate all applicable standards.

c) Projects Using Screening Table. For projects exceeding 3,000 MTCO2e per year of GHG emissions, the County will use Screening Tables as a tool to assist with calculating GHG reduction measures and the

determination of a significance finding. Projects that garner a 100 or greater points would not require quantification of project specific GHG emissions. The point system was devised to ensure to Project compliance with the reduction measures in the GHG Plan such that the GHG emissions from new development, when considered together with those existing development, will allow the County to meet its 2020 target and support reductions in GHG emissions beyond 2020. Consistent with the CEQA Guidelines, such projects are consistent with the Plan and therefore will be determined to have a less than significant individual and cumulative impact for GHG emissions.

d) Projects Not Using Screening Tables. Projects exceeding 3,000 MTY of GHG emissions that do not use the Screening Tables, will be required to quantify project-specific GHG emissions and achieve the equivalent level of GHG emissions efficiency as a 100-point project. Consistent with the CEQA Guidelines, such projects are consistent with the Plan and therefore will be determined to have a less than significant individual and cumulative impact for GHG emissions.

e) Residential Projects Located Outside City Sphere of Influence. Residential Projects (or mixed use projects with a residential component) in excess of 250 residential dwelling units that are located in unincorporated area not within a City Sphere of Influence (SOI) will not be eligible to use the Screening Tables or rely on the Plan for a determination of less than significant on individual or cumulative impact for GHG emissions. These projects must perform an independent project-specific evaluation of GHG emissions as described in Attachments 1 and 3 hereto, and present project-specific conclusions regarding significance of GHG emissions impacts. (As part of the implementation of the County GHG Plan, a uniform set of performance standards will be applied to development projects. These performance standards will be added to the County Development Code to ensure consistent application during development review.

3.4.2 Approach and Methodology

3.4.2.1 Construction

Construction of the proposed Project would result in emissions of GHG emissions primarily associated with the use of off-road construction equipment, on-road haul and vendor (material delivery) truck trips, and worker vehicle trips. Emissions from construction of the Project were estimated using CalEEMod using a combination of CalEEMod default assumptions and Project-specific information provided by the Applicant where available. All details for construction criteria air pollutants discussed in Section 2.4.2.1 are also applicable for the estimation of construction-related GHG emissions. As such, see Section 2.4.2.1 for a discussion of construction emissions calculation methodology and assumptions.

Water Use

In addition to the sources discussed in Section 2.4.2.1, the supply, conveyance, treatment, and distribution of water for Project construction would require use of electricity, which would result in associated indirect GHG emissions. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for GHGs in CalEEMod, since criteria pollutant emissions occur at the site of the power plant, which is typically off site.

Refrigerants

Refrigerants from air conditioning systems in vehicles will also result in GHG emissions from worker, haul, and vendor mobile trips during construction. Refrigerant emissions were estimated in CalEEMod based on default assumptions for on-road mobile refrigerant leakage from air conditioning usage. Refrigerant assumptions used in CalEEMod are based on information provided by CARB, which uses a "top-down" approach from total emission inventory estimates and activity data to estimate average (i.e., statewide) leakage rates for light-duty and heavy-duty vehicles (CAPCOA 2022).

Per the EPA's Significant New Alternatives Policy, certain refrigerants with high GWPs (e.g., HFC-134a) must be replaced with lower GWP alternatives. Starting in 2021, HFC-134a is forbidden in new light-duty vehicles and will be forbidden in all vehicles after 2026. Given this phase out of high GWP refrigerants, the emissions associated with refrigerant leakage from on-road vehicles is expected to decrease over time as new vehicles are introduced and older vehicles are retired from the fleet (CAPCOA 2022).

3.4.2.2 Operation

CalEEMod was used to estimate potential Project-generated operational GHG emissions from area sources (landscape maintenance), energy sources (natural gas and electricity), mobile sources, solid waste, and water supply and wastewater treatment. All details for operational criteria air pollutants discussed in Section 2.4.2.2 are also applicable for the estimation of operational GHG emissions. As such, see Section 2.4.2.2 for a discussion of operational emissions calculation methodology and assumptions. For additional details see Appendix A, *CalEEMod Output Files*.

Energy Use

As represented in CalEEMod, energy sources include emissions associated with building electricity for the project and would also include electricity for warehouse forklift operation, and electric vehicle charging. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for GHGs in CalEEMod and spreadsheet calculations (forklifts, electric vehicle charging) since criteria pollutant emissions occur at the site of the power plant, which is typically off site. CalEEMod default values for energy consumption were applied for the Project analysis building emissions. The energy use from nonresidential land uses is calculated in CalEEMod based on the Commercial Appliance Saturation Study (CAPCOA 2022). Detailed emissions calculations for forklift and electric vehicle charging are calculated via spreadsheet calculations provided in Appendix A.

Electric vehicle (EV) charging is a separate operation from the warehouse operations and is not dependent on the warehouse tenant's trucking schedule or need. As such the Project's EV charging facilities do not generate new electric vehicles but serve to support existing electric vehicles within the area fleet mix at the time of Project operation. For this reason, the GHG emissions associated with electric energy throughput of the EV charging facilities of the Project would not be attributable to the Project. Only EV truck electric energy associated with the diverted trip from the highway (I-15 via Lenwood Road) to the site and electric energy losses associated with the charging facilities would be potentially attributable to the Project with dependency on final equipment design and energy efficiency ratings, for this analysis is assumed that 10%[19] of the electric energy is lost at the Project site.

[19] https://insideevs.com/features/711659/ev-charger-efficiency-losses/ Based on level 3 DC fast charging.

Energy losses occur from the charging facilities due to alternating current distribution, energy rectification, and direct current losses and from heating ventilation and air conditioning (HVAC) on both the charging equipment and the vehicles. It is anticipated that approximately 6.5% of the electric energy processed through EV charging would be generated onsite with solar photovoltaic (PV) generation, approximately 2,338,800 kWh of renewable energy per year, which would displace GHG emissions from the same generation sources from the utility. For informational purposes, the Project is anticipated to charge electric vehicles with a cumulative annual total of 35,740,800 kWh of electric energy with 33,401,977 kWh sourced from the electric power grid and the remaining 6.5% from onsite solar PV generation. Based on a utility CO_2 intensity factor of 531.983 lb/MWh, this amount of electric energy would result in approximately 8,060 MT/year of CO_2, of which 10% would be attributable to the project through energy losses, equal to approximately 806 MT/year of CO_2.

In addition, there would also be a Battery Energy Storage System (BESS) included in the Project. The operation of the BESS would result in approximately 16 MWh of energy per day energy throughput. However, this electricity is only stored in the BESS and related GHG emissions from the energy would be accounted for in the GHG emissions estimates from building operations (CalEEMod), forklifts, and electric vehicle charging operations.

Solid Waste

The Project would generate solid waste and, therefore, result in CO_2e emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste.

Refrigerants

Refrigerants are substances used in equipment for air conditioning and refrigeration. Most of the refrigerants used today are HFCs or blends thereof, which can have high GWP values. All equipment that uses refrigerants has a charge size (i.e., quantity of refrigerant the equipment contains), and an operational refrigerant leak rate, and each refrigerant has a GWP that is specific to that refrigerant. CalEEMod quantifies refrigerant emissions from leaks during regular operation and routine servicing over the equipment lifetime, and then derives average annual emissions from the lifetime estimate.

SF_6 Leakage

During operations and maintenance, fugitive GHG emissions could also occur due to sulfur hexafluoride (SF_6) gas leakage from substation components and related electrical transmission and distribution equipment built for the dedicated use of the Project. SF_6 has a GWP of 23,900 using CO_2 at a reference value of 1 (IPCC 2007). Project related transformers, breakers, switchers, meters, and other related equipment would contain SF_6 gas. It is conservatively estimated that the Project would maintain a total of 61 pounds of SF_6 gas at the substation supporting the Project operation. Although leakage is unlikely, for the purposes of the Project's emissions inventory, it was assumed that the breakers would have a maximum annual leak rate of 0.5% in accordance with the Institute of Electrical and Electronics Engineers (IEEE) PC37.122 - Standard for High Voltage Gas-Insulated Substations Rated Above 52 kV (IEEE 2018). Emissions from SF_6 gas are included as part of area source emissions and detailed emissions calculations are provided in Appendix A.

3.5 Impact Analysis

3.5.1 Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Construction and Decommissioning Emissions

Construction of the Project would result in GHG emissions, which are primarily associated with the use of off-road construction equipment, haul trucks, on-road vendor trucks, and worker vehicles.

CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Sections 2.4.2.1 and 3.4.2.1. On-site sources of GHG emissions include off-road equipment and off-site sources include vendor trucks and worker vehicles. Table 18 presents construction emissions for the Project from on-site and off-site emission sources.

Table 18. Estimated Annual Construction Greenhouse Gas Emissions – Unmitigated

	CO2	CH4	N2O	R	CO2e
Year	Metric Tons Per Year				
2027	12,117	0.17	0.87	12.80	12,394
2028	9.453	0.12	0.68	9.27	9,668
Total					**22,062**
				Amortized (30-year Project life)	*735.40*

Source: Appendix A.
Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.
See Appendix A for complete results.
The values shown are the annual emissions reflect California Emissions Estimator Model "mitigated" output.
Totals may not add due to rounding.

As shown in Table 18, the estimated total GHG emissions during construction of would be approximately 22,062 MT CO_2e over the construction period. Estimated Project-generated construction emissions amortized over 30 years, the "life-span" of the Project, would be approximately 735 MT CO_2e per year. Amortization of construction emissions over the life of the project is performed in order to add the construction emissions to the operational emissions to present a total annual GHG emissions estimation, see Table 19.

Operational Emissions

Operation of the Project would generate GHG emissions from area sources (landscape maintenance equipment operation), energy use (natural gas combustion and utility generation of electricity consumed by the Project), mobile sources (vehicular traffic), off-road equipment (electric equipment), solid waste disposal, generation of electricity associated with water supply, treatment, and distribution and wastewater treatment, and electric vehicle charging energy losses. The estimated operational GHG emissions are shown in Table 19. Detailed operational model outputs are presented in Appendix A

The annual Project generated operational GHG emissions are summarized in Table 19, including the amortized construction GHG emissions.

Table 19. Estimated Annual Operational Greenhouse Gas Emissions

Emission Source	CO2	CH4	N2O	R	CO2e
	Metric Tons Per Year				
Mobile[1]	23,056	0.21	2.71	25.3	23,896
Area[2]	32.7	<0.005	<0.005	-	36.2
Energy[3]	4,594	0.44	0.05	-	4,621
Water	639	16.8	0.4	-	1,179
Waste	218	21.8	0	-	764
Refrig.	0	0	0	794	794
Off-Road (Electric Forklifts)	1,898.5	0.12	0.01	-	1,905.7
				Total Annual Operational Emissions	**33,196**
				Amortized 30-Year Construction and Decommissioning Emissions	735.4
				Total Annual Project Emissions	***33,932***

Source: Appendix A.
Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent; < 0.005 = reported emissions less than 0.005.
Totals may not add due to rounding.
1 Includes GHG emissions from EV trucks diverted trip from the highway (I-15 via Lenwood Road). See Appendix A.
2 Includes CO_2e emissions from SF_6 leakage from substation components and related electrical transmission and distribution equipment.
3 Includes energy loss from electric vehicle charging and ventilation and air conditioning for BESS.

As shown in Table 18, annual operation of the proposed Project would result in the emission of approximately 32,380 $MTCO_2e$ per year. Combined with amortized construction emissions, the total annual GHG emissions resulting from Project implementation would be 33,115 $MTCO_2e$ per year. GHG emissions are provided for informational purposes only, project significance is determined via consistency with the County Greenhouse Gas Emissions Reduction Plan, as discussed in the following section.

3.5.3 Would the Project conflict with applicable plans, policies, and regulations adopted for the purpose of reducing GHG emissions?

Project Potential to Conflict with State Reduction Targets and CARB's Scoping Plan

The California State Legislature passed AB 32 to provide initial direction to limit California's GHG emissions to 1990 levels by 2020 and initiate the state's long-range climate objectives. Since the passage of AB 32, the state has adopted GHG emissions reduction targets for future years beyond the initial 2020 horizon year. CARB is required to develop the Scoping Plan, which provides the framework for actions to achieve the state's GHG emission targets. While the Scoping Plan is not directly applicable to specific projects, nor is it intended to be used as the sole basis for project-level evaluations, it is the official framework for the measures and regulations that will be implemented to reduce California's GHG emissions in alignment with the adopted targets. Therefore, a project would be found to not conflict with the statutes if it would meet the Scoping Plan policies and would not impede attainment of the goals therein.

For the Project, the relevant GHG emissions reduction targets include those established by SB 32 and AB 1279, which require GHG emissions be reduced to 40% below 1990 levels by 2030, and 85% below 1990 levels by 2045, respectively. In addition, AB 1279 requires the state achieve net zero GHG emissions by no later than 2045 and achieve and maintain net negative GHG emissions thereafter. CARB's 2017 Scoping Plan update was the first to address the state's strategy for achieving the 2030 GHG reduction target set forth in SB 32 (CARB 2017), and the most recent CARB 2022 Scoping Plan update outlines the state's plan to reduce emissions and achieve carbon neutrality by 2045 in alignment with AB 1279 and assesses progress is making toward the 2030 SB 32 target (CARB 2022). As such, given that SB 32 and AB 1279 are the relevant GHG emission targets, the 2017 and 2022 Scoping Plan updates that outline the strategy to achieve those targets, are the most applicable to the Project.

The 2017 Scoping Plan included measures to promote renewable energy and energy efficiency (including the mandates of SB 350), increase stringency of the LCFS, measures identified in the Mobile Source and Freight Strategies, measures identified in the proposed Short-Lived Climate Pollutant Plan, and increase stringency of SB 375 targets. The 2022 Scoping Plan builds upon and accelerates programs currently in place, including moving to zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high GWP; providing communities with sustainable options for walking, biking, and public transit; and displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines) (CARB 2022). Many of the measures and programs included in the Scoping Plan would result in the reduction of Project-related GHG emissions with no action required at the project-level, including GHG emission reductions through increased energy efficiency and renewable energy production (SB 350), reduction in carbon intensity of transportation fuels (LCFS), and the accelerated efficiency and electrification of the statewide vehicle fleet (Mobile Source Strategy).

Table 20 highlights the measures from the 2022 Scoping Plan that are relevant to the Project.

Table 20. Project Potential to Conflict with 2022 Scoping Plan

Sector	Action	Potential to Conflict
Light-duty Vehicle (LDV) Zero Emission Vehicles (ZEVs)	100% of LDV sales are ZEV by 2035	*No conflict*. As this action pertains to LDV sales within California, the Project would not obstruct or interfere with its implementation. Furthermore, the Project would support the transition from fossil fuel LDV to ZEV through its EV charging facilities.
Truck ZEVs	100% of medium-duty vehicle (MDV)/ heavy-duty vehicle (HDV) sales are ZEV by 2040	*No conflict*. As this action pertains to MDV and HDV sales within California, the Project would not obstruct or interfere with its implementation. Furthermore, the Project would support the transition from fossil fuel LDV to ZEV through its EV charging facilities.

Table 20. Project Potential to Conflict with 2022 Scoping Plan

Sector	Action	Potential to Conflict
Electricity Generation	Sector GHG target of 38 million metric tons of carbon dioxide equivalent ($MMTCO_2e$) in 2030 and 30 $MMTCO_2e$ in 2035 Retail sales load coverage[1] 20 gigawatts (GW) of offshore wind by 2045 Meet increased demand for electrification without new fossil gas-fired resources	*No conflict*. As this Action pertains to the statewide procurement of renewably generated electricity, the Project would not obstruct or interfere with its implementation. However, the Project would support increased usage of renewable electricity through approximately 2,338,800 kWh of onsite renewable energy produced per year.
New Residential and Commercial Buildings	All electric appliances beginning 2026 (residential) and 2029 (commercial), contributing to 6 million heat pumps installed statewide by 2030	*No conflict*. The Project would not obstruct or interfere with agency efforts to meet the all-electric appliance and heat pump goals. The Project would exclude natural gas usage with the exception of restaurant(s) in the commercial building.
Construction Equipment	25% of energy demand electrified by 2030 and 75% electrified by 2045	*No conflict*. As this Action pertains to the electrification of off-road equipment across California, the Project would not obstruct or interfere with its implementation. However, the Project would support the Action through the requirement that all cargo handling to be electric powered.
Low Carbon Fuels for Transportation	Biomass supply is used to produce conventional and advanced biofuels, as well as hydrogen	*No conflict*. The Project would not obstruct or interfere with agency efforts to increase the provision of low carbon fuels for transportation. Furthermore, the Project would support the transition from fossil fuel LDV to ZEV through its EV charging facilities.
Low Carbon Fuels for Buildings and Industry	In 2030s biomethane blended in pipeline Renewable hydrogen blended in fossil gas pipeline at 7% energy (~20% by volume), ramping up between 2030 and 2040 In 2030s, dedicated hydrogen pipelines constructed to serve certain industrial clusters	*No conflict*. The Project would not obstruct or interfere with agency efforts to increase the provision of low carbon fuels for use in buildings and industry. The Project would support increased usage of renewable electricity through approximately 2,338,800 kWh of onsite renewable energy produced per year.
High GWP Potential Emissions	Low GWP refrigerants introduced as building electrification increases, mitigating HFC emissions	*No conflict*. The Project would not obstruct or interfere with agency efforts to introduce low GWP refrigerants.

Source: CARB 2022.
Note:

[1] As noted in Table 2-1 of the 2022 Scoping Plan, SB 100 speaks only to retail sales and state agency procurement of electricity (i.e., wholesale or non-retail sales and losses from storage and transmission and distribution lines are not subject to the law).

Based on the analysis in Table 20, the Project would be consistent with the applicable strategies and measures in the 2017 Scoping Plan and 2022 Scoping Plan, respectively.

The 2045 carbon neutrality goal required CARB to expand proposed actions in the 2022 Scoping Plan to include those that capture and store carbon in addition to those that reduce only anthropogenic sources of GHG emissions. However, the 2022 Scoping Plan emphasizes that reliance on carbon sequestration in the state's natural and working lands will not be sufficient to address residual GHG emissions, and achieving carbon neutrality will require research, development, and deployment of additional methods to capture atmospheric GHG emissions (e.g., mechanical direct air capture). Given that the specific path to neutrality will require development of technologies and programs that are not currently known or available, the Project's role in supporting the statewide goal would be speculative and cannot be wholly identified at this time.

Overall, the Project would comply will all regulations adopted in furtherance of the Scoping Plan to the extent applicable and required by law. As demonstrated above, the Project would not conflict with CARB's 2017 or 2022 Scoping Plan updates and with the state's ability to achieve the 2030 and 2045 GHG reduction and carbon neutrality goals.

Potential to Conflict with the County Greenhouse Gas Emissions Reduction Plan

As discussed in Section 3.2.3.3, the County's Greenhouse Gas Emissions Reduction Plan is a qualified GHG reduction plan according to CEQA Guidelines Section 15183.5 and thus can be used in a cumulative impacts analysis to determine significance. As shown in Section 3.5.1, net GHG emissions from the Project would exceed the 3,000 MT CO_2e threshold established by the GHGRP. As such, the Project applies the GHGRP Screening Table. as a tool to assist with calculating GHG reduction measures and the determination of a significance finding. Projects that garner a 100 or greater points would not require quantification of project specific GHG emissions. The point system was devised to ensure to Project compliance with the reduction measures in the GHG Plan such that the GHG emissions from new development, when considered together with those existing development, will allow the County to support reductions in GHG emissions beyond 2020. Consistent with the CEQA Guidelines, such projects are consistent with the Plan and therefore will be determined to have a less-than-significant individual and cumulative impact for GHG emissions. Table 21 provides the Project's application of the Screening Tables.

Table 21. Project Potential to Conflict with the GHGRP Emissions Screening Table

Feature	Description	Assigned Point Values	Project Points
Reduction Measure Energy: Exceed Energy Efficiency Standards in New Commercial Units			
Building Envelope			
Insulation	2019 Baseline (walls R-16: roof/attic: R-32)	0 points	9 points
	Modestly Enhanced Insulation (walls R-15, roof/attic R-38)	9 points	
	Enhanced Insulation (rigid wall insulation R-13, roof/attic: R-38)	11 points	
	Greatly Enhanced Insulation (spray foam wall insulated walls R-18 or higher, roof/attic R-38 or higher)	12 points	
Windows	2019 Title 24 Windows (0.57 U-factor, 0.4 SHGC)	0 points	4 points
	Modestly Enhanced Window Insulation (0.4 U-factor, 0.32 SHGC)	4 points	
	Enhanced Window Insulation (0.32 U-factor, 0.25 SHGC)	5 points	
	Greatly Enhanced Window Insulation (0.28 or less U-factor, 0.22 or less SHGC)	7 points	
Cool Roof	Enhanced Cool Roof (CRRC Rated 0.2 aged solar reflectance, 0.75 thermal emittance)	8 points	8 points
	Greatly Enhanced Cool Roof (CRRC Rated 0.35 aged solar reflectance, 0.75 thermal emittance)	10 points	
Air Infiltration	Air barrier applied to exterior walls, calking, and visual inspection such as the HERS Verified Quality Insulation Installation (QII or equivalent)	7 points	0 points
	Blower Door HERS Verified Envelope Leakage or equivalent	6 points	
Thermal Storage of Building	Modest Thermal Mass (10% of floor or 10% of walls 12” or more thick exposed concrete or masonry with no permanently installed floor covering such as carpet, linoleum, wood or other insulating materials)	2 points	0 points

Table 21. Project Potential to Conflict with the GHGRP Emissions Screening Table

Feature	Description	Assigned Point Values	Project Points
Reduction Measure Energy: Exceed Energy Efficiency Standards in New Commercial Units			
	Enhanced Thermal Mass (20% of floor or 20% of walls: 12" or more thick exposed concrete or masonry. No permanently installed floor covering such as carpet, linoleum, wood, or other insulating materials)	4 points	
	Enhanced Thermal Mass (80% of floor or 80% of walls: 12" or more thick exposed concrete or masonry. No permanently installed floor covering such as carpet, linoleum, wood, or other insulating materials)	14 points	
Indoor Space Efficiencies			
Heating/Cooling Distribution System	Minimum Duct Insulation (R-6 required)	0 points	6 points
	Enhanced Duct Insulation (R-8)	6 points	
	Distribution loss reduction with inspection (HERS Verified Duct Leakage or equivalent	8 points	
Space Heating/Cooling Equipment	2019 Minimum HVAC Efficiency (EER 13/75% AFUE or 7.7 HSPF)	0 points	4 points
	Improved Efficiency HVAC (EER 14/78% AFUE or 8 HSPF)	4 points	
	High Efficiency HVAC (EER 15/80% AFUE or 8.5 HSPF)	5 points	
	Very High Efficiency HVAC (EER 16/82% AFUE or 9 HSPF)	7 points	
Commercial Heat Recovery Systems	Heat recovery strategies employed with commercial laundry, cooking equipment, and other commercial heat sources for reuse in HVAC air intake or other appropriate heat recovery technology. Point values for these types of systems will be determined based upon design and engineering data documenting the energy saving	TBD	0 Points
Water Heaters	2019 Minimum Efficiency (0.57 Energy Factor)	0 points	8 points

Table 21. Project Potential to Conflict with the GHGRP Emissions Screening Table

Feature	Description	Assigned Point Values	Project Points
Reduction Measure Energy: Exceed Energy Efficiency Standards in New Commercial Units			
	Improved Efficiency Water Heater (0.675 Energy Factor)	8 points	
	High Efficiency Water Heater (0.72 Energy Factor)	10 points	
	Very High Efficiency Water Heater (0.92 Energy Factor)	11 points	
	Solar Pre-heat System (0.2 Net Solar Fraction)	2 points	
	Enhanced Solar Pre-heat System (0.35 Net Solar Fraction)	5 points	
Daylighting	All peripheral rooms within building have at least one window or skylight 0	0 points	0 points
	All rooms within building have daylight (through use of windows, solar tubes, skylights, etc.)	1 point	
	All rooms daylighted	1 point	
Artificial Lighting	Efficient Lights (25% of in-unit fixtures considered high efficacy. High efficacy is defined as 40 lumens/watt for 15 watt or less fixtures; 50 lumens/watt for 15-40 watt fixtures, 60 lumens/watt for fixtures >40watt)	5 points	5 points
	High Efficiency Lights (50% of in-unit fixtures are high efficacy)	7 points	
	Very High Efficiency Lights (100% of in-unit fixtures are high efficacy)	8 points	
Appliances	Energy Star Commercial Refrigerator (new)	2 points	0 points
	Energy Star Commercial Dish Washer (new)	2 points	
	Energy Star Washing Machine (new)	2 points	
Miscellaneous Commercial Building Efficiencies			

Table 21. Project Potential to Conflict with the GHGRP Emissions Screening Table

Feature	Description	Assigned Point Values	Project Points
Reduction Measure Energy: Exceed Energy Efficiency Standards in New Commercial Units			
Building Placement	North/South alignment of building or other building placement such that the orientation of the buildings optimizes conditions for natural heating, cooling, and lighting.	4 points	0 points
Shading	At least 90% of south-facing glazing will be shaded by vegetation or overhangs at noon on Jun 21st.	6 points	0 points
Other	This allows innovation by the applicant to provide design features that increase the energy efficiency of the project not provided in the table. Note that engineering data will be required documenting the energy efficiency of innovative designs and point values given based upon the proven efficiency beyond Title 24 Energy Efficiency Standards	TBD	0 points
Existing Commercial Buildings Retrofits	Not Applicable to the Project	NA	NA
Reduction Measure Energy-3: All Electric Buildings			
All-Electric Buildings	All electric buildings reduce GHG emissions, as the grid electricity they use is generated using less carbon over time. Grid electricity in California will be 60 percent renewable energy by 2030 and 100 percent renewable energy by 2040	0 points	0 points
Reduction Measure Energy-7: Clean Energy			
Photovoltaic	30 percent of the power needs of the project	8 points	0 points
	40 percent of the power needs of the project	12 points	
	50 percent of the power needs of the project	16 points	
	60 percent of the power needs of the project	19 points	
	70 percent of the power needs of the project	23 points	

Table 21. Project Potential to Conflict with the GHGRP Emissions Screening Table

Feature	Description	Assigned Point Values	Project Points
Reduction Measure Energy: Exceed Energy Efficiency Standards in New Commercial Units			
	80 percent of the power needs of the project	26 points	
	90 percent of the power needs of the project	30 points	
	100 percent of the power needs of the project	34 points	
Wind Turbines	30 percent of the power needs of the project 9	8 points	0 points
	40 percent of the power needs of the project	12 points	
	50 percent of the power needs of the project	16 points	
	60 percent of the power needs of the project	19 points	
	70 percent of the power needs of the project	23 points	
	80 percent of the power needs of the project	26 points	
	90 percent of the power needs of the project	30 points	
	100 percent of the power needs of the project	34 points	
Off-site Renewable Energy Project	The applicant may submit a proposal to supply an off-site renewable energy project such as renewable energy retrofits of existing residential or existing commercial/industrial. These off-site renewable energy retrofit project proposals will be determined on a case-by-case basis accompanied by a detailed plan documenting the quantity of renewable energy the proposal will generate. Point values will be based upon the energy generated by the proposal	TBD	0 points

Table 21. Project Potential to Conflict with the GHGRP Emissions Screening Table

Feature	Description	Assigned Point Values	Project Points
Reduction Measure Energy: Exceed Energy Efficiency Standards in New Commercial Units			
Other Renewable Energy Generation	The applicant may have innovative designs or unique site circumstances (such as geothermal) that allow the project to generate electricity from renewable energy not provided in the table. The ability to supply other renewable energy and the point values allowed would be decided based upon engineering data documenting the ability to generate electricity	TBD	0 points
Irrigation and Landscaping			
Water Efficient Landscaping	Eliminate conventional turf from landscaping	0 points	5 points
	Only moderate water using plants	2 points	
	Only low water using plants	3 points	
	Only California Native landscape that requires no or only supplemental irrigation	5 points	
Water Efficient Irrigation Systems	Low precipitation spray heads < .75”/hr or drip irrigation	1 point	3 points
	Weather based irrigation control systems combined with drip irrigation (demonstrate 20% reduced water use)	3 points	
Recycled Water	Recycled water connection (purple pipe) to irrigation system on site	6 points	0 points
Storm Water Reuse Systems	Innovative on-site storm water collection, filtration, and reuse systems are being developed that provide supplemental irrigation water and provide vector control. These systems can greatly reduce the irrigation needs of a project. Point values for these types of systems will be determined based upon design and engineering data documenting the water savings	TBD	0 points
Commercial Potable Water			

Table 21. Project Potential to Conflict with the GHGRP Emissions Screening Table

Feature	Description	Assigned Point Values	Project Points
Reduction Measure Energy: Exceed Energy Efficiency Standards in New Commercial Units			
Showers	Water Efficient Showerheads (2.0 gpm)	2 points	2 points
Toilets	Water Efficient Toilets (1.5gpm)	3 points	3 points
	Waterless Urinals (note that commercial buildings having both waterless urinals and high efficiency toilets will have a combined point value of 6 points)	3 points	0 points
Faucets	Water Efficient faucets (1.28gpm)	2 points	2 points
Commercial Dishwashers	Water Efficient dishwashers (20% water savings)	2 points	NA
Commercial Laundry Washers	Water Efficient laundry (15% water savings)	2 points	NA
	High Efficiency laundry equipment that captures and reuses rinse water (30% water savings)	4 points	NA
Commercial Water Operations Program	Establish an operational program to reduce water loss from pools, water features, etc., by covering pools, adjusting fountain operational hours, and using water treatment to reduce draw down and replacement of water. Point values for these types of plans will be determined based upon design and engineering data documenting the water savings	TBD	0 points
Increase Commercial/Industrial Reclaimed Water Use			
Recycled Water	Graywater (purple pipe) irrigation system on site	5 points	0 points
Reduction Measure On-Road: Alternative Transportation Options			
Mixed-Use Development			

Table 21. Project Potential to Conflict with the GHGRP Emissions Screening Table

Feature	Description	Assigned Point Values	Project Points
Reduction Measure Energy: Exceed Energy Efficiency Standards in New Commercial Units			
Mixed-Use	Mixes of land uses that complement one another in a way that reduces the need for vehicle trips can greatly reduce GHG emissions. The point value of mixed-use projects will be determined based upon traffic studies that demonstrate trip reductions and/or reductions in vehicle miles traveled	TBD	0 points
Local Retail Near Residential (Commercial only Projects)	Having residential developments within walking and biking distance of local retail helps to reduce vehicle trips and/or vehicle miles traveled. The point value of residential projects in close proximity to local retail will be determined based upon traffic studies that demonstrate trip reductions and/or reductions in vehicle miles traveled	TBD	0 points
Preferential Parking			
Parking	Provide reserved preferential parking spaces for car-share, carpool, and ultra-low or zero emission vehicles	1 point	0 points
	Provide larger parking spaces that can accommodate vans used for ride-sharing programs and reserve them for vanpools and include adequate passenger waiting/loading areas	1 point	1 point
Signal Synchronization and Intelligent Traffic Systems			
Signal Improvements	synchronize signals along arterials used by project	1 point/signal	0 points
	Connect signals along arterials to existing ITS	3 points/signal	0 points

Table 21. Project Potential to Conflict with the GHGRP Emissions Screening Table

Feature	Description	Assigned Point Values	Project Points
Reduction Measure Energy: Exceed Energy Efficiency Standards in New Commercial Units			
Increase Public Transit			
Public Transit	The point value of a project's ability to increase public transit use will be determined based upon a Transportation Impact Analysis (TIA) demonstrating decreased use of private vehicles and increased use of public transportation. Increased transit accessibility (1–15 points)	TBD	0 points
Reduction Measure: Install Electric Vehicle Chargers			
Worker and Customer Based Electric Vehicle Chargers	Installation of Electric Vehicle (EV) Chargers for passenger EVs: Level 2 240 volt AC Fast Chargers	5 points/charger	350 points (70 chargers)
	Level 3 480 volt DC Rapid Chargers	8 points/charger	64 points (8 Level 3 chargers)
Electric Commercial Truck Chargers	Level 1 AC Chargers for EV Medium Duty Trucks	3 points/charger	0 points
	Level 1 AC Chargers for EV Class 8 (Heavy Duty) Trucks	5 points/charger	0 points
	Level 2 AC Chargers for EV Medium Duty Truck	8 points/charger	0 points
	Level 2 AC Chargers for EV Class 8 (Heavy Duty) Trucks	12 points/charger	0 points
	Level 3 DC Fast Chargers for EV Class 8 (Heavy Duty) Trucks	16 points/charger	720 points (45 Charging stations for HD trucks)
Reduction Measure: Adopt and Implement a Bicycle Master Plan to Expand Bike Routes around the County			

Table 21. Project Potential to Conflict with the GHGRP Emissions Screening Table

Feature	Description	Assigned Point Values	Project Points
Reduction Measure Energy: Exceed Energy Efficiency Standards in New Commercial Units			
Sidewalks	Provide sidewalks on both sides of the street (required)	0 points	3 points
	Provide pedestrian linkage between commercial and residential land uses within 1 mile	3 points	
Bicycle Paths	Provide bicycle paths within project boundaries.	1 point	0 points
	Provide bicycle path linkages between residential and other land uses.	2 points	
	Provide bicycle path linkages between commercial and transit.	5 points	
Reduction Measure: Reduce Waste to Landfills			
Recycling	Provide separated recycling bins within each commercial building/floor and provide large external recycling collection bins at central location for collection truck pick-up	2 points	2 points
	Provide commercial/industrial recycling programs that fulfills an onsite goal of 80% diversion of solid waste	5 points	
	Recycle construction waste	4 points	4 points
Other GHG Reduction Feature Implementation			
Other GHG Emissions Reduction Features	This allows innovation by the applicant to provide commercial design features that the GHG emissions from construction and/or operation of the project not provided in the table. Note that engineering data will be required documenting the GHG reduction amount and point values given based upon emission reductions calculations using approved models, methods, and protocols.	TBD	0 points
Total Points			**1,203**

Source: County of San Bernardino, June 2021.

As shown in Table 20, the Project applies the GHGRP Screening Table calculating GHG reduction measures with a resulting 1,203 points. Projects that garner a 100 or greater points would not require quantification of project specific GHG emissions. The point system was devised to ensure to Project compliance with the reduction measures

in the GHG Plan such that the GHG emissions from new development, when considered together with those existing development, will allow the County to support reductions in GHG emissions beyond 2020. Consistent with the CEQA Guidelines, such projects are consistent with the Plan and therefore the Project would not conflict with the goals of the GHGRP and is determined to have a **less-than-significant individual and cumulative impact for GHG emissions.**

Potential to Conflict with the SCAG's 2024–2050 Regional Transportation Plan/Sustainable Communities Strategy

SCAG adopted the 2024-2050 RTP/SCS, "Connect SoCal 2024" on April 4, 2024. The following relevant policies and strategies are intended to be supportive of implementing the 2024–2050 RTP/SCS and reducing GHGs: Sustainable Development, Clean Transportation, and Preservation, and Climate Resilience.

- **Sustainable Development**. The 2024-2050 RTP/SCS identifies sustainable development, including water and energy-efficient building practices and green infrastructure, as a strategy to reduce GHG emissions. As described herein, targeted sustainable design strategies of the Project include all cargo handling equipment to be electric powered and the project would support the transition from fossil fuel LDV to ZEV through its EV charging facilities. The Project would support increased usage of renewable electricity through approximately 2,338,800 kWh of onsite renewable energy produced per year.
- **Clean Transportation**. The 2024–2050 RTP/SCS identifies EV charging infrastructure, adoption of zero-emission vehicles, and clean transit as ways to reduce GHG emissions from mobile sources. As described herein, the Project would directly promote and support low emission technologies for transportation through the development of an electric vehicle (EV) charging station to serve light duty/passenger vehicles and medium and heavy-duty trucks.
- **Climate Resilience**. The 2024–2050 RTP/SCS promotes regional coordination and solutions for effective emergency response for climate-related hazards. Additionally, in the category of climate resilience, SCAG has established the following policies: prioritize the most vulnerable populations and communities subject to climate hazards; support local and regional climate and hazard planning; support nature-based solutions to increase regional resilience; promote sustainable water use planning; and support an integrated planning approach to help jurisdictions meet housing needs in a drier environment. While the Project does not directly pertain to these regional coordination efforts for climate resilience, the Project would not interfere with this strategy.

As demonstrated above, the Project would be consistent with the SCAG 2024–2050 RTP/SCS.

Summary

Overall, the proposed Project would comply with all regulations adopted in furtherance of the Scoping Plan to the extent applicable and required by law would be consistent with the SCAG 2024-2050 RTP/SCS. In addition, as demonstrated herein, the Project would achieve 1,203 points with the GHGRP Screening Table eclipsing the 100 points required to show compliance with the reduction measures in the GHG Plan such that the GHG emissions from new development, when considered together with those existing development, will allow the County to support reductions in GHG emissions beyond 2020. Consistent with the CEQA Guidelines, such projects are consistent with the Plan and therefore the Project would not conflict with the goals of the GHGRP and is determined to have a **less-than-significant individual and cumulative impact for GHG emissions.**

Mitigation Measures

No mitigation is required.

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13 CCR 2449–2449.3 and Appendix A. General Requirements for In-Use Off-Road Diesel-Fueled Fleets.14 CCR 15000–15387 and Appendices A–L. Guidelines for Implementation of the California Environmental Quality Act, as amended.

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6 List of Preparers

David Larocca, Air Quality Specialist

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Lenwood EV July 2024 v2 Detailed Report

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1.1. Basic Project Information

Data Field	Value
Project Name	Lenwood EV July 2024 v2
Construction Start Date	4/1/2027
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	5.00
Precipitation (days)	11.6
Location	34.88605560747003, -117.11627169436377
County	San Bernardino-Mojave Desert
City	Unincorporated
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5110
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southwest Gas Corp.
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	973	1000sqft	22.3	972,538	627,041	—	—	Warehouse Passenger Vehicles

Unrefrigerated Warehouse-Rail	369	1000sqft	8.47	368,894	0.00	—	—	Warehouse Trucks
Industrial Park	876	1000sqft	20.1	876,170	0.00	—	—	EV Truck Charging
Convenience Market (24 hour)	22.0	1000sqft	0.51	22,000	0.00	—	—	Retail, includes truck wash and maintenance
Other Asphalt Surfaces	1,498	1000sqft	34.4	0.00	0.00	—	—	Other paved surfaces
Fast Food Restaurant with Drive Thru	3.00	1000sqft	0.07	3,000	0.00	—	—	Restaurant

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-13	Use Low-VOC Paints for Construction

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	501	500	147	464	0.69	5.86	77.2	80.4	5.39	20.0	25.4	—	147,379	147,379	1.87	9.83	335	150,690
Mit.	106	105	124	502	0.69	2.35	77.2	79.5	2.25	20.0	21.0	—	147,379	147,379	1.87	9.83	335	150,690
% Reduced	79%	79%	15%	-8%	—	60%	—	1%	58%	—	17%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	29.9	25.9	126	314	0.57	2.51	77.2	79.7	2.38	18.7	21.1	—	126,752	126,752	1.54	9.87	8.68	129,740
Mit.	28.4	24.7	114	322	0.57	2.00	77.2	79.2	1.92	18.7	20.7	—	126,752	126,752	1.54	9.87	8.68	129,740
% Reduced	5%	5%	10%	-3%	—	20%	—	1%	19%	—	2%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	43.4	42.3	85.6	202	0.35	2.02	43.8	45.8	1.90	11.2	13.1	—	73,190	73,190	1.02	5.27	77.2	74,862
Mit.	18.0	17.2	66.5	212	0.35	1.21	43.8	45.0	1.16	11.2	12.4	—	73,190	73,190	1.02	5.27	77.2	74,862
% Reduced	59%	59%	22%	-5%	—	40%	—	2%	39%	—	6%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.93	7.72	15.6	36.8	0.06	0.37	7.99	8.36	0.35	2.04	2.39	—	12,117	12,117	0.17	0.87	12.8	12,394
Mit.	3.28	3.14	12.1	38.7	0.06	0.22	7.99	8.21	0.21	2.04	2.26	—	12,117	12,117	0.17	0.87	12.8	12,394
% Reduced	59%	59%	22%	-5%	—	40%	—	2%	39%	—	6%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	37.6	32.9	147	464	0.69	5.86	77.2	80.4	5.39	20.0	25.4	—	147,379	147,379	1.87	9.83	335	150,690
2028	501	500	124	399	0.57	4.93	77.2	79.5	4.54	18.7	21.0	—	131,534	131,534	1.42	9.72	300	134,765
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	29.9	25.9	126	314	0.57	2.51	77.2	79.7	2.38	18.7	21.1	—	126,752	126,752	1.54	9.87	8.68	129,740
2028	26.8	24.9	120	296	0.57	2.33	77.2	79.5	2.21	18.7	21.0	—	124,204	124,204	1.44	9.72	7.77	127,146

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	18.6	16.1	85.6	202	0.35	2.02	43.8	45.8	1.90	11.2	13.1	—	73,190	73,190	1.02	5.27	77.2	74,862
2028	43.4	42.3	63.3	155	0.27	1.46	35.1	36.6	1.37	8.75	10.1	—	57,098	57,098	0.75	4.11	56.0	58,396
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	3.39	2.93	15.6	36.8	0.06	0.37	7.99	8.36	0.35	2.04	2.39	—	12,117	12,117	0.17	0.87	12.8	12,394
2028	7.93	7.72	11.5	28.2	0.05	0.27	6.41	6.67	0.25	1.60	1.85	—	9,453	9,453	0.12	0.68	9.27	9,668

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	32.7	29.0	124	502	0.69	2.35	77.2	79.5	2.25	20.0	21.0	—	147,379	147,379	1.87	9.83	335	150,690
2028	106	105	104	407	0.57	1.87	77.2	79.0	1.79	18.7	20.5	—	131,534	131,534	1.42	9.72	300	134,765
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	28.4	24.7	114	322	0.57	2.00	77.2	79.2	1.92	18.7	20.7	—	126,752	126,752	1.54	9.87	8.68	129,740
2028	25.4	23.8	109	304	0.57	1.87	77.2	79.0	1.79	18.7	20.5	—	124,204	124,204	1.44	9.72	7.77	127,146
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	16.0	13.9	66.5	212	0.35	1.21	43.8	45.0	1.16	11.2	12.4	—	73,190	73,190	1.02	5.27	77.2	74,862
2028	18.0	17.2	51.1	161	0.27	0.93	35.1	36.0	0.89	8.75	9.64	—	57,098	57,098	0.75	4.11	56.0	58,396
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.91	2.55	12.1	38.7	0.06	0.22	7.99	8.21	0.21	2.04	2.26	—	12,117	12,117	0.17	0.87	12.8	12,394
2028	3.28	3.14	9.33	29.4	0.05	0.17	6.41	6.58	0.16	1.60	1.76	—	9,453	9,453	0.12	0.68	9.27	9,668

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	86.9	83.9	112	287	1.48	2.63	75.6	78.2	2.47	19.6	22.1	2,307	184,133	186,440	237	19.6	5,188	203,389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	68.0	66.3	118	146	1.43	2.45	75.6	78.0	2.34	19.6	21.9	2,307	179,459	181,766	237	19.6	4,804	198,355
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	74.9	72.9	114	168	1.32	2.44	63.1	65.5	2.31	16.4	18.7	2,307	167,848	170,155	237	19.2	4,947	186,741
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.7	13.3	20.9	30.7	0.24	0.45	11.5	12.0	0.42	3.00	3.42	382	27,789	28,171	39.3	3.17	819	30,917

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.5	16.8	111	190	1.47	2.45	75.6	78.0	2.33	19.6	21.9	—	153,113	153,113	1.35	16.8	394	158,544
Area	68.4	67.1	0.82	97.5	0.01	0.17	—	0.17	0.13	—	0.13	—	401	401	0.02	< 0.005	—	403
Energy	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27,748	27,748	2.64	0.32	—	27,909
Water	—	—	—	—	—	—	—	—	—	—	—	988	2,870	3,858	102	2.44	—	7,123
Waste	—	—	—	—	—	—	—	—	—	—	—	1,319	0.00	1,319	132	0.00	—	4,616
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,794	4,794
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	86.9	83.9	112	287	1.48	2.63	75.6	78.2	2.47	19.6	22.1	2,307	184,133	186,440	237	19.6	5,188	203,389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.9	15.2	117	146	1.43	2.45	75.6	78.0	2.33	19.6	21.9	—	148,841	148,841	1.40	16.9	10.2	153,912
Area	51.1	51.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27,748	27,748	2.64	0.32	—	27,909
Water	—	—	—	—	—	—	—	—	—	—	—	988	2,870	3,858	102	2.44	—	7,123
Waste	—	—	—	—	—	—	—	—	—	—	—	1,319	0.00	1,319	132	0.00	—	4,616
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,794	4,794
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	68.0	66.3	118	146	1.43	2.45	75.6	78.0	2.34	19.6	21.9	2,307	179,459	181,766	237	19.6	4,804	198,355
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.2	13.9	114	120	1.31	2.35	63.1	65.4	2.24	16.4	18.7	—	137,032	137,032	1.16	16.4	153	142,100
Area	59.6	59.0	0.40	48.1	< 0.005	0.09	—	0.09	0.06	—	0.06	—	198	198	0.01	< 0.005	—	199
Energy	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27,748	27,748	2.64	0.32	—	27,909
Water	—	—	—	—	—	—	—	—	—	—	—	988	2,870	3,858	102	2.44	—	7,123
Waste	—	—	—	—	—	—	—	—	—	—	—	1,319	0.00	1,319	132	0.00	—	4,616
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,794	4,794
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	74.9	72.9	114	168	1.32	2.44	63.1	65.5	2.31	16.4	18.7	2,307	167,848	170,155	237	19.2	4,947	186,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.78	2.54	20.8	21.9	0.24	0.43	11.5	11.9	0.41	3.00	3.41	—	22,687	22,687	0.19	2.71	25.3	23,526
Area	10.9	10.8	0.07	8.78	< 0.005	0.02	—	0.02	0.01	—	0.01	—	32.7	32.7	< 0.005	< 0.005	—	32.9
Energy	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4,594	4,594	0.44	0.05	—	4,621
Water	—	—	—	—	—	—	—	—	—	—	—	164	475	639	16.8	0.40	—	1,179
Waste	—	—	—	—	—	—	—	—	—	—	—	218	0.00	218	21.8	0.00	—	764

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	794	794
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	13.7	13.3	20.9	30.7	0.24	0.45	11.5	12.0	0.42	3.00	3.42	382	27,789	28,171	39.3	3.17	819	30,917

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.5	16.8	111	190	1.47	2.45	75.6	78.0	2.33	19.6	21.9	—	153,113	153,113	1.35	16.8	394	158,544
Area	68.4	67.1	0.82	97.5	0.01	0.17	—	0.17	0.13	—	0.13	—	401	401	0.02	< 0.005	—	403
Energy	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27,748	27,748	2.64	0.32	—	27,909
Water	—	—	—	—	—	—	—	—	—	—	—	988	2,870	3,858	102	2.44	—	7,123
Waste	—	—	—	—	—	—	—	—	—	—	—	1,319	0.00	1,319	132	0.00	—	4,616
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,794	4,794
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	86.9	83.9	112	287	1.48	2.63	75.6	78.2	2.47	19.6	22.1	2,307	184,133	186,440	237	19.6	5,188	203,389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.9	15.2	117	146	1.43	2.45	75.6	78.0	2.33	19.6	21.9	—	148,841	148,841	1.40	16.9	10.2	153,912
Area	51.1	51.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27,748	27,748	2.64	0.32	—	27,909
Water	—	—	—	—	—	—	—	—	—	—	—	988	2,870	3,858	102	2.44	—	7,123
Waste	—	—	—	—	—	—	—	—	—	—	—	1,319	0.00	1,319	132	0.00	—	4,616
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,794	4,794
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	68.0	66.3	118	146	1.43	2.45	75.6	78.0	2.34	19.6	21.9	2,307	179,459	181,766	237	19.6	4,804	198,355
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.2	13.9	114	120	1.31	2.35	63.1	65.4	2.24	16.4	18.7	—	137,032	137,032	1.16	16.4	153	142,100
Area	59.6	59.0	0.40	48.1	< 0.005	0.09	—	0.09	0.06	—	0.06	—	198	198	0.01	< 0.005	—	199
Energy	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27,748	27,748	2.64	0.32	—	27,909
Water	—	—	—	—	—	—	—	—	—	—	—	988	2,870	3,858	102	2.44	—	7,123
Waste	—	—	—	—	—	—	—	—	—	—	—	1,319	0.00	1,319	132	0.00	—	4,616
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,794	4,794
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	74.9	72.9	114	168	1.32	2.44	63.1	65.5	2.31	16.4	18.7	2,307	167,848	170,155	237	19.2	4,947	186,741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.78	2.54	20.8	21.9	0.24	0.43	11.5	11.9	0.41	3.00	3.41	—	22,687	22,687	0.19	2.71	25.3	23,526
Area	10.9	10.8	0.07	8.78	< 0.005	0.02	—	0.02	0.01	—	0.01	—	32.7	32.7	< 0.005	< 0.005	—	32.9
Energy	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4,594	4,594	0.44	0.05	—	4,621
Water	—	—	—	—	—	—	—	—	—	—	—	164	475	639	16.8	0.40	—	1,179
Waste	—	—	—	—	—	—	—	—	—	—	—	218	0.00	218	21.8	0.00	—	764
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	794	794
Off-Road	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	13.7	13.3	20.9	30.7	0.24	0.45	11.5	12.0	0.42	3.00	3.42	382	27,789	28,171	39.3	3.17	819	30,917

3. Construction Emissions Details

3.1. Site Preparation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	18.2	15.3	140	141	0.24	5.86	—	5.86	5.39	—	5.39	—	26,489	26,489	1.07	0.21	—	26,580
Dust From Material Movement	—	—	—	—	—	—	38.3	38.3	—	19.7	19.7	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.50	4.60	4.65	0.01	0.19	—	0.19	0.18	—	0.18	—	871	871	0.04	0.01	—	874
Dust From Material Movement	—	—	—	—	—	—	1.26	1.26	—	0.65	0.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.84	0.85	< 0.005	0.04	—	0.04	0.03	—	0.03	—	144	144	0.01	< 0.005	—	145
Dust From Material Movement	—	—	—	—	—	—	0.23	0.23	—	0.12	0.12	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.41	0.36	6.42	0.00	0.00	1.18	1.18	0.00	0.28	0.28	—	1,265	1,265	0.01	0.04	3.94	1,282
Vendor	0.01	0.01	0.30	0.13	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	305	305	< 0.005	0.04	0.70	318
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	37.9	37.9	< 0.005	< 0.005	0.06	38.4
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.0	10.0	< 0.005	< 0.005	0.01	10.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.28	6.28	< 0.005	< 0.005	0.01	6.36
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.66	1.66	< 0.005	< 0.005	< 0.005	1.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	4.25	3.88	29.9	139	0.24	0.98	—	0.98	0.94	—	0.94	—	26,489	26,489	1.07	0.21	—	26,580
Dust From Material Movement	—	—	—	—	—	—	38.3	38.3	—	19.7	19.7	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.13	0.98	4.58	0.01	0.03	—	0.03	0.03	—	0.03	—	871	871	0.04	0.01	—	874
Dust From Material Movement	—	—	—	—	—	—	1.26	1.26	—	0.65	0.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.18	0.84	< 0.005	0.01	—	0.01	0.01	—	0.01	—	144	144	0.01	< 0.005	—	145
Dust From Material Movement	—	—	—	—	—	—	0.23	0.23	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.41	0.36	6.42	0.00	0.00	1.18	1.18	0.00	0.28	0.28	—	1,265	1,265	0.01	0.04	3.94	1,282
Vendor	0.01	0.01	0.30	0.13	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	305	305	< 0.005	0.04	0.70	318
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	37.9	37.9	< 0.005	< 0.005	0.06	38.4
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.0	10.0	< 0.005	< 0.005	0.01	10.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.28	6.28	< 0.005	< 0.005	0.01	6.36
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.66	1.66	< 0.005	< 0.005	< 0.005	1.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	17.5	14.7	128	136	0.30	5.22	—	5.22	4.80	—	4.80	—	32,990	32,990	1.34	0.27	—	33,104

Dust From Material Movement	—	—	—	—	—	—	17.9	17.9	—	7.12	7.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.49	1.25	10.9	11.6	0.03	0.44	—	0.44	0.41	—	0.41	—	2,802	2,802	0.11	0.02	—	2,812
Dust From Material Movement	—	—	—	—	—	—	1.52	1.52	—	0.61	0.61	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.23	1.98	2.11	< 0.005	0.08	—	0.08	0.07	—	0.07	—	464	464	0.02	< 0.005	—	465
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.51	2.27	1.97	35.7	0.00	0.00	6.54	6.54	0.00	1.53	1.53	—	7,026	7,026	0.08	0.24	21.9	7,120

Vendor	0.01	0.01	0.30	0.13	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	305	305	< 0.005	0.04	0.70	318
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.20	2.27	0.00	0.00	0.55	0.55	0.00	0.13	0.13	—	544	544	0.01	0.02	0.80	551
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.0	26.0	< 0.005	< 0.005	0.03	27.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.42	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	90.1	90.1	< 0.005	< 0.005	0.13	91.3
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.30	4.30	< 0.005	< 0.005	< 0.005	4.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.95	4.59	32.1	176	0.30	1.05	—	1.05	1.01	—	1.01	—	32,990	32,990	1.34	0.27	—	33,104
Dust From Material Movement	—	—	—	—	—	—	17.9	17.9	—	7.12	7.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.39	2.73	14.9	0.03	0.09	—	0.09	0.09	—	0.09	—	2,802	2,802	0.11	0.02	—	2,812
Dust From Material Movement	—	—	—	—	—	—	1.52	1.52	—	0.61	0.61	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.50	2.73	< 0.005	0.02	—	0.02	0.02	—	0.02	—	464	464	0.02	< 0.005	—	465
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.51	2.27	1.97	35.7	0.00	0.00	6.54	6.54	0.00	1.53	1.53	—	7,026	7,026	0.08	0.24	21.9	7,120
Vendor	0.01	0.01	0.30	0.13	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	305	305	< 0.005	0.04	0.70	318
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.20	2.27	0.00	0.00	0.55	0.55	0.00	0.13	0.13	—	544	544	0.01	0.02	0.80	551
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.0	26.0	< 0.005	< 0.005	0.03	27.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.42	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	90.1	90.1	< 0.005	< 0.005	0.13	91.3
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.30	4.30	< 0.005	< 0.005	< 0.005	4.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Fine Grading (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	17.1	14.4	122	136	0.30	4.93	—	4.93	4.53	—	4.53	—	32,991	32,991	1.34	0.27	—	33,105
Dust From Material Movement	—	—	—	—	—	—	17.9	17.9	—	7.12	7.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	1.45	1.22	10.3	11.5	0.03	0.42	—	0.42	0.38	—	0.38	—	2,802	2,802	0.11	0.02	—	2,812
Dust From Material Movement	—	—	—	—	—	—	1.52	1.52	—	0.61	0.61	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.22	1.89	2.11	< 0.005	0.08	—	0.08	0.07	—	0.07	—	464	464	0.02	< 0.005	—	465
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.43	2.19	1.75	33.2	0.00	0.00	6.54	6.54	0.00	1.53	1.53	—	6,892	6,892	0.08	0.24	19.7	6,985
Vendor	0.01	0.01	0.29	0.12	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	298	298	< 0.005	0.04	0.62	310
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.17	0.19	2.11	0.00	0.00	0.55	0.55	0.00	0.13	0.13	—	534	534	0.01	0.02	0.72	541
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.3	25.3	< 0.005	< 0.005	0.02	26.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.03	0.03	0.39	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	88.4	88.4	< 0.005	< 0.005	0.12	89.5
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.19	4.19	< 0.005	< 0.005	< 0.005	4.36
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Fine Grading (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.88	4.54	31.7	176	0.30	1.00	—	1.00	0.96	—	0.96	—	32,991	32,991	1.34	0.27	—	33,105
Dust From Material Movement	—	—	—	—	—	—	17.9	17.9	—	7.12	7.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.39	2.69	14.9	0.03	0.08	—	0.08	0.08	—	0.08	—	2,802	2,802	0.11	0.02	—	2,812
Dust From Material Movement	—	—	—	—	—	—	1.52	1.52	—	0.61	0.61	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.49	2.73	< 0.005	0.02	—	0.02	0.01	—	0.01	—	464	464	0.02	< 0.005	—	465
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.43	2.19	1.75	33.2	0.00	0.00	6.54	6.54	0.00	1.53	1.53	—	6,892	6,892	0.08	0.24	19.7	6,985
Vendor	0.01	0.01	0.29	0.12	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	298	298	< 0.005	0.04	0.62	310
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.17	0.19	2.11	0.00	0.00	0.55	0.55	0.00	0.13	0.13	—	534	534	0.01	0.02	0.72	541
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.3	25.3	< 0.005	< 0.005	0.02	26.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.39	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	88.4	88.4	< 0.005	< 0.005	0.12	89.5
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.19	4.19	< 0.005	< 0.005	< 0.005	4.36
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.15	5.15	47.0	64.7	0.12	1.68	—	1.68	1.55	—	1.55	—	11,985	11,985	0.49	0.10	—	12,027
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.15	5.15	47.0	64.7	0.12	1.68	—	1.68	1.55	—	1.55	—	11,985	11,985	0.49	0.10	—	12,027
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.25	20.5	28.3	0.05	0.74	—	0.74	0.68	—	0.68	—	5,235	5,235	0.21	0.04	—	5,253
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	0.41	3.74	5.16	0.01	0.13	—	0.13	0.12	—	0.12	—	867	867	0.04	0.01	—	870

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	23.6	21.3	18.5	335	0.00	0.00	61.4	61.4	0.00	14.4	14.4	—	66,041	66,041	0.73	2.23	206	66,929
Vendor	2.45	1.79	55.5	23.1	0.45	0.83	15.7	16.6	0.83	4.35	5.18	—	56,211	56,211	0.12	7.40	130	58,548
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	21.5	19.2	20.7	225	0.00	0.00	61.4	61.4	0.00	14.4	14.4	—	58,492	58,492	0.93	2.33	5.32	59,216
Vendor	2.21	1.59	58.6	24.0	0.45	0.83	15.7	16.6	0.83	4.35	5.18	—	56,274	56,274	0.12	7.44	3.36	58,497
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	9.39	8.37	9.87	110	0.00	0.00	26.6	26.6	0.00	6.24	6.24	—	26,300	26,300	0.41	1.02	38.8	26,652
Vendor	1.00	0.73	25.6	10.3	0.20	0.36	6.83	7.19	0.36	1.89	2.25	—	24,564	24,564	0.05	3.25	24.4	25,558
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.71	1.53	1.80	20.1	0.00	0.00	4.86	4.86	0.00	1.14	1.14	—	4,354	4,354	0.07	0.17	6.42	4,413
Vendor	0.18	0.13	4.67	1.89	0.04	0.07	1.25	1.31	0.07	0.34	0.41	—	4,067	4,067	0.01	0.54	4.04	4,231
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.66	3.96	34.7	72.7	0.12	1.18	—	1.18	1.09	—	1.09	—	11,985	11,985	0.49	0.10	—	12,027
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.66	3.96	34.7	72.7	0.12	1.18	—	1.18	1.09	—	1.09	—	11,985	11,985	0.49	0.10	—	12,027
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.73	15.2	31.7	0.05	0.51	—	0.51	0.48	—	0.48	—	5,235	5,235	0.21	0.04	—	5,253
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.32	2.77	5.79	0.01	0.09	—	0.09	0.09	—	0.09	—	867	867	0.04	0.01	—	870
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	23.6	21.3	18.5	335	0.00	0.00	61.4	61.4	0.00	14.4	14.4	—	66,041	66,041	0.73	2.23	206	66,929
Vendor	2.45	1.79	55.5	23.1	0.45	0.83	15.7	16.6	0.83	4.35	5.18	—	56,211	56,211	0.12	7.40	130	58,548
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	21.5	19.2	20.7	225	0.00	0.00	61.4	61.4	0.00	14.4	14.4	—	58,492	58,492	0.93	2.33	5.32	59,216
Vendor	2.21	1.59	58.6	24.0	0.45	0.83	15.7	16.6	0.83	4.35	5.18	—	56,274	56,274	0.12	7.44	3.36	58,497
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	9.39	8.37	9.87	110	0.00	0.00	26.6	26.6	0.00	6.24	6.24	—	26,300	26,300	0.41	1.02	38.8	26,652
Vendor	1.00	0.73	25.6	10.3	0.20	0.36	6.83	7.19	0.36	1.89	2.25	—	24,564	24,564	0.05	3.25	24.4	25,558
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.71	1.53	1.80	20.1	0.00	0.00	4.86	4.86	0.00	1.14	1.14	—	4,354	4,354	0.07	0.17	6.42	4,413
Vendor	0.18	0.13	4.67	1.89	0.04	0.07	1.25	1.31	0.07	0.34	0.41	—	4,067	4,067	0.01	0.54	4.04	4,231
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.92	4.96	44.6	64.7	0.12	1.50	—	1.50	1.38	—	1.38	—	11,987	11,987	0.49	0.10	—	12,028

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.92	4.96	44.6	64.7	0.12	1.50	—	1.50	1.38	—	1.38	—	11,987	11,987	0.49	0.10	—	12,028
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.43	2.04	18.3	26.6	0.05	0.62	—	0.62	0.57	—	0.57	—	4,926	4,926	0.20	0.04	—	4,943
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.37	3.35	4.85	0.01	0.11	—	0.11	0.10	—	0.10	—	816	816	0.03	0.01	—	818
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	22.8	20.6	16.4	312	0.00	0.00	61.4	61.4	0.00	14.4	14.4	—	64,788	64,788	0.73	2.23	185	65,655
Vendor	2.37	1.75	53.7	22.1	0.45	0.83	15.7	16.6	0.83	4.35	5.18	—	54,759	54,759	0.12	7.40	115	57,081
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	18.8	18.3	18.5	209	0.00	0.00	61.4	61.4	0.00	14.4	14.4	—	57,395	57,395	0.83	2.23	4.80	58,085
Vendor	2.17	1.59	56.7	22.5	0.45	0.83	15.7	16.6	0.83	4.35	5.18	—	54,822	54,822	0.12	7.40	2.98	57,033
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.79	7.62	8.45	96.0	0.00	0.00	25.1	25.1	0.00	5.87	5.87	—	24,279	24,279	0.34	0.92	32.9	24,593
Vendor	0.94	0.69	23.2	9.12	0.19	0.34	6.43	6.77	0.34	1.78	2.12	—	22,515	22,515	0.05	3.04	20.3	23,442
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.42	1.39	1.54	17.5	0.00	0.00	4.57	4.57	0.00	1.07	1.07	—	4,020	4,020	0.06	0.15	5.45	4,072
Vendor	0.17	0.13	4.23	1.66	0.03	0.06	1.17	1.24	0.06	0.32	0.39	—	3,728	3,728	0.01	0.50	3.37	3,881
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.50	3.83	33.6	72.7	0.12	1.04	—	1.04	0.96	—	0.96	—	11,987	11,987	0.49	0.10	—	12,028
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	4.50	3.83	33.6	72.7	0.12	1.04	—	1.04	0.96	—	0.96	—	11,987	11,987	0.49	0.10	—	12,028
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.85	1.57	13.8	29.9	0.05	0.43	—	0.43	0.40	—	0.40	—	4,926	4,926	0.20	0.04	—	4,943
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.29	2.52	5.45	0.01	0.08	—	0.08	0.07	—	0.07	—	816	816	0.03	0.01	—	818
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	22.8	20.6	16.4	312	0.00	0.00	61.4	61.4	0.00	14.4	14.4	—	64,788	64,788	0.73	2.23	185	65,655
Vendor	2.37	1.75	53.7	22.1	0.45	0.83	15.7	16.6	0.83	4.35	5.18	—	54,759	54,759	0.12	7.40	115	57,081
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	18.8	18.3	18.5	209	0.00	0.00	61.4	61.4	0.00	14.4	14.4	—	57,395	57,395	0.83	2.23	4.80	58,085
Vendor	2.17	1.59	56.7	22.5	0.45	0.83	15.7	16.6	0.83	4.35	5.18	—	54,822	54,822	0.12	7.40	2.98	57,033
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.79	7.62	8.45	96.0	0.00	0.00	25.1	25.1	0.00	5.87	5.87	—	24,279	24,279	0.34	0.92	32.9	24,593
Vendor	0.94	0.69	23.2	9.12	0.19	0.34	6.43	6.77	0.34	1.78	2.12	—	22,515	22,515	0.05	3.04	20.3	23,442
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.42	1.39	1.54	17.5	0.00	0.00	4.57	4.57	0.00	1.07	1.07	—	4,020	4,020	0.06	0.15	5.45	4,072
Vendor	0.17	0.13	4.23	1.66	0.03	0.06	1.17	1.24	0.06	0.32	0.39	—	3,728	3,728	0.01	0.50	3.37	3,881
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Underground Utilities (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	11.6	9.75	72.6	106	0.24	2.38	—	2.38	2.19	—	2.19	—	25,126	25,126	1.02	0.20	—	25,213
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.88	6.56	9.59	0.02	0.22	—	0.22	0.20	—	0.20	—	2,272	2,272	0.09	0.02	—	2,279

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.20	1.75	< 0.005	0.04	—	0.04	0.04	—	0.04	—	376	376	0.02	< 0.005	—	377
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	23.6	21.3	18.5	335	0.00	0.00	61.4	61.4	0.00	14.4	14.4	—	66,041	66,041	0.73	2.23	206	66,929
Vendor	2.45	1.79	55.5	23.1	0.45	0.83	15.7	16.6	0.83	4.35	5.18	—	56,211	56,211	0.12	7.40	130	58,548
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.94	1.73	2.04	22.8	0.00	0.00	5.51	5.51	0.00	1.29	1.29	—	5,444	5,444	0.08	0.21	8.03	5,517
Vendor	0.21	0.15	5.30	2.14	0.04	0.07	1.41	1.49	0.07	0.39	0.47	—	5,084	5,084	0.01	0.67	5.06	5,290
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.32	0.37	4.15	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	901	901	0.01	0.03	1.33	913
Vendor	0.04	0.03	0.97	0.39	0.01	0.01	0.26	0.27	0.01	0.07	0.09	—	842	842	< 0.005	0.11	0.84	876
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Underground Utilities (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.68	5.84	50.1	144	0.24	1.52	—	1.52	1.42	—	1.42	—	25,126	25,126	1.02	0.20	—	25,213
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.53	4.53	13.0	0.02	0.14	—	0.14	0.13	—	0.13	—	2,272	2,272	0.09	0.02	—	2,279
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.83	2.37	< 0.005	0.03	—	0.03	0.02	—	0.02	—	376	376	0.02	< 0.005	—	377
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	23.6	21.3	18.5	335	0.00	0.00	61.4	61.4	0.00	14.4	14.4	—	66,041	66,041	0.73	2.23	206	66,929
Vendor	2.45	1.79	55.5	23.1	0.45	0.83	15.7	16.6	0.83	4.35	5.18	—	56,211	56,211	0.12	7.40	130	58,548
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.94	1.73	2.04	22.8	0.00	0.00	5.51	5.51	0.00	1.29	1.29	—	5,444	5,444	0.08	0.21	8.03	5,517
Vendor	0.21	0.15	5.30	2.14	0.04	0.07	1.41	1.49	0.07	0.39	0.47	—	5,084	5,084	0.01	0.67	5.06	5,290
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.32	0.37	4.15	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	901	901	0.01	0.03	1.33	913
Vendor	0.04	0.03	0.97	0.39	0.01	0.01	0.26	0.27	0.01	0.07	0.09	—	842	842	< 0.005	0.11	0.84	876
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.08	3.43	33.1	49.5	0.07	1.28	—	1.28	1.18	—	1.18	—	7,555	7,555	0.31	0.06	—	7,581
Paving	4.09	4.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.25	0.21	2.00	2.99	< 0.005	0.08	—	0.08	0.07	—	0.07	—	455	455	0.02	< 0.005	—	457
Paving	0.25	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.04	0.04	0.36	0.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	75.4	75.4	< 0.005	< 0.005	—	75.7
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.35	0.28	5.31	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,103	1,103	0.01	0.04	3.15	1,118
Vendor	0.01	0.01	0.29	0.12	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	298	298	< 0.005	0.04	0.62	310
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	60.6	60.6	< 0.005	< 0.005	0.08	61.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	0.02	18.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.0	10.0	< 0.005	< 0.005	0.01	10.2
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.97	2.97	< 0.005	< 0.005	< 0.005	3.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.08	3.43	33.1	49.5	0.07	1.28	—	1.28	1.18	—	1.18	—	7,555	7,555	0.31	0.06	—	7,581
Paving	4.09	4.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.21	2.00	2.99	< 0.005	0.08	—	0.08	0.07	—	0.07	—	455	455	0.02	< 0.005	—	457
Paving	0.25	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.36	0.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	75.4	75.4	< 0.005	< 0.005	—	75.7
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.35	0.28	5.31	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,103	1,103	0.01	0.04	3.15	1,118
Vendor	0.01	0.01	0.29	0.12	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	298	298	< 0.005	0.04	0.62	310
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	60.6	60.6	< 0.005	< 0.005	0.08	61.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	0.02	18.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.0	10.0	< 0.005	< 0.005	0.01	10.2
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.97	2.97	< 0.005	< 0.005	< 0.005	3.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.54	4.04	5.59	0.01	0.08	—	0.08	0.07	—	0.07	—	668	668	0.03	0.01	—	670

Architectural	492	492	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.24	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.2	40.2	< 0.005	< 0.005	—	40.4
Architectural Coatings	29.6	29.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.66	6.66	< 0.005	< 0.005	—	6.68
Architectural Coatings	5.41	5.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	9.14	8.25	6.57	125	0.00	0.00	24.6	24.6	0.00	5.76	5.76	—	25,915	25,915	0.29	0.89	74.0	26,262
Vendor	0.01	0.01	0.29	0.12	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	298	298	< 0.005	0.04	0.62	310

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.45	0.50	5.63	0.00	0.00	1.47	1.47	0.00	0.34	0.34	—	1,424	1,424	0.02	0.05	1.93	1,443
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	0.02	18.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.09	1.03	0.00	0.00	0.27	0.27	0.00	0.06	0.06	—	236	236	< 0.005	0.01	0.32	239
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.97	2.97	< 0.005	< 0.005	< 0.005	3.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.54	4.04	5.59	0.01	0.08	—	0.08	0.07	—	0.07	—	668	668	0.03	0.01	—	670
Architectural Coatings	96.4	96.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.24	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.2	40.2	< 0.005	< 0.005	—	40.4
Architectural Coatings	5.81	5.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.66	6.66	< 0.005	< 0.005	—	6.68
Architectural Coatings	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	9.14	8.25	6.57	125	0.00	0.00	24.6	24.6	0.00	5.76	5.76	—	25,915	25,915	0.29	0.89	74.0	26,262
Vendor	0.01	0.01	0.29	0.12	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	298	298	< 0.005	0.04	0.62	310
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.45	0.50	5.63	0.00	0.00	1.47	1.47	0.00	0.34	0.34	—	1,424	1,424	0.02	0.05	1.93	1,443
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	0.02	18.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.09	1.03	0.00	0.00	0.27	0.27	0.00	0.06	0.06	—	236	236	< 0.005	0.01	0.32	239
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.97	2.97	< 0.005	< 0.005	< 0.005	3.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.70	4.40	2.99	57.8	0.16	0.06	15.6	15.7	0.06	3.93	3.99	—	16,342	16,342	0.33	0.34	42.5	16,494
Unrefrigerated Warehouse-Rail	2.76	2.29	97.1	23.6	1.03	2.18	35.4	37.5	2.08	9.44	11.5	—	108,447	108,447	0.23	15.3	270	113,293
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Convenience Market (24 hour)	3.49	3.20	3.53	34.4	0.09	0.07	7.81	7.88	0.06	1.98	2.04	—	9,002	9,002	0.25	0.35	25.8	9,140
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant with Drive Thru	7.50	6.87	7.58	73.9	0.19	0.14	16.8	16.9	0.13	4.25	4.38	—	19,322	19,322	0.54	0.76	55.4	19,617
Total	18.5	16.8	111	190	1.47	2.45	75.6	78.0	2.33	19.6	21.9	—	153,113	153,113	1.35	16.8	394	158,544
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.27	3.97	3.29	40.1	0.14	0.06	15.6	15.7	0.06	3.93	3.99	—	14,544	14,544	0.36	0.36	1.10	14,662
Unrefrigerated Warehouse-Rail	2.67	2.21	102	23.6	1.03	2.18	35.4	37.5	2.08	9.44	11.5	—	108,474	108,474	0.23	15.4	7.00	113,062
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market (24 hour)	3.16	2.87	3.81	26.0	0.08	0.07	7.81	7.88	0.06	1.98	2.04	—	8,207	8,207	0.26	0.37	0.67	8,323
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Fast Food Restaurant with Drive Thru	6.78	6.16	8.18	55.9	0.17	0.14	16.8	16.9	0.13	4.25	4.38	—	17,616	17,616	0.55	0.79	1.44	17,865
Total	16.9	15.2	117	146	1.43	2.45	75.6	78.0	2.33	19.6	21.9	—	148,841	148,841	1.40	16.9	10.2	153,912
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.79	0.73	0.63	8.15	0.03	0.01	2.83	2.84	0.01	0.71	0.72	—	2,476	2,476	0.06	0.06	3.04	2,499
Unrefrigerated Warehouse-Rail	0.49	0.41	18.9	4.28	0.19	0.40	6.41	6.81	0.38	1.71	2.09	—	17,956	17,956	0.04	2.54	19.3	18,734
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market (24 hour)	0.48	0.45	0.43	3.12	0.01	0.01	0.75	0.76	0.01	0.19	0.20	—	750	750	0.03	0.04	0.98	762
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant with Drive Thru	1.02	0.95	0.88	6.36	0.02	0.01	1.51	1.52	0.01	0.38	0.40	—	1,505	1,505	0.06	0.07	1.97	1,531
Total	2.78	2.54	20.8	21.9	0.24	0.43	11.5	11.9	0.41	3.00	3.41	—	22,687	22,687	0.19	2.71	25.3	23,526

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.70	4.40	2.99	57.8	0.16	0.06	15.6	15.7	0.06	3.93	3.99	—	16,342	16,342	0.33	0.34	42.5	16,494
Unrefrigerated Warehouse-Rail	2.76	2.29	97.1	23.6	1.03	2.18	35.4	37.5	2.08	9.44	11.5	—	108,447	108,447	0.23	15.3	270	113,293
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market (24 hour)	3.49	3.20	3.53	34.4	0.09	0.07	7.81	7.88	0.06	1.98	2.04	—	9,002	9,002	0.25	0.35	25.8	9,140
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant with Drive Thru	7.50	6.87	7.58	73.9	0.19	0.14	16.8	16.9	0.13	4.25	4.38	—	19,322	19,322	0.54	0.76	55.4	19,617
Total	18.5	16.8	111	190	1.47	2.45	75.6	78.0	2.33	19.6	21.9	—	153,113	153,113	1.35	16.8	394	158,544
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.27	3.97	3.29	40.1	0.14	0.06	15.6	15.7	0.06	3.93	3.99	—	14,544	14,544	0.36	0.36	1.10	14,662

Unrefrig Warehouse-Rail	2.67	2.21	102	23.6	1.03	2.18	35.4	37.5	2.08	9.44	11.5	—	108,474	108,474	0.23	15.4	7.00	113,062
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market (24 hour)	3.16	2.87	3.81	26.0	0.08	0.07	7.81	7.88	0.06	1.98	2.04	—	8,207	8,207	0.26	0.37	0.67	8,323
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant with Drive Thru	6.78	6.16	8.18	55.9	0.17	0.14	16.8	16.9	0.13	4.25	4.38	—	17,616	17,616	0.55	0.79	1.44	17,865
Total	16.9	15.2	117	146	1.43	2.45	75.6	78.0	2.33	19.6	21.9	—	148,841	148,841	1.40	16.9	10.2	153,912
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.79	0.73	0.63	8.15	0.03	0.01	2.83	2.84	0.01	0.71	0.72	—	2,476	2,476	0.06	0.06	3.04	2,499
Unrefrigerated Warehouse-Rail	0.49	0.41	18.9	4.28	0.19	0.40	6.41	6.81	0.38	1.71	2.09	—	17,956	17,956	0.04	2.54	19.3	18,734
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market (24 hour)	0.48	0.45	0.43	3.12	0.01	0.01	0.75	0.76	0.01	0.19	0.20	—	750	750	0.03	0.04	0.98	762

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant with Drive Thru	1.02	0.95	0.88	6.36	0.02	0.01	1.51	1.52	0.01	0.38	0.40	—	1,505	1,505	0.06	0.07	1.97	1,531
Total	2.78	2.54	20.8	21.9	0.24	0.43	11.5	11.9	0.41	3.00	3.41	—	22,687	22,687	0.19	2.71	25.3	23,526

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,260	4,260	0.41	0.05	—	4,285
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,616	1,616	0.15	0.02	—	1,625
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,390	3,390	0.32	0.04	—	3,410
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	674	674	0.06	0.01	—	677

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	99.8	99.8	0.01	< 0.005	—	100
undefined	—	—	—	—	—	—	—	—	—	—	—	—	17,599	17,599	1.68	0.20	—	17,701
Total	—	—	—	—	—	—	—	—	—	—	—	—	27,638	27,638	2.63	0.32	—	27,799
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,260	4,260	0.41	0.05	—	4,285
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,616	1,616	0.15	0.02	—	1,625
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,390	3,390	0.32	0.04	—	3,410
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	674	674	0.06	0.01	—	677
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	99.8	99.8	0.01	< 0.005	—	100
undefined	—	—	—	—	—	—	—	—	—	—	—	—	17,599	17,599	1.68	0.20	—	17,701
Total	—	—	—	—	—	—	—	—	—	—	—	—	27,638	27,638	2.63	0.32	—	27,799
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	705	705	0.07	0.01	—	709
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	268	268	0.03	< 0.005	—	269
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	561	561	0.05	0.01	—	565
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	112	112	0.01	< 0.005	—	112
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	16.5	16.5	< 0.005	< 0.005	—	16.6
undefined	—	—	—	—	—	—	—	—	—	—	—	—	2,914	2,914	0.28	0.03	—	2,931
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,576	4,576	0.44	0.05	—	4,602

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,260	4,260	0.41	0.05	—	4,285
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,616	1,616	0.15	0.02	—	1,625
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,390	3,390	0.32	0.04	—	3,410
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	674	674	0.06	0.01	—	677
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	99.8	99.8	0.01	< 0.005	—	100
undefined	—	—	—	—	—	—	—	—	—	—	—	—	17,599	17,599	1.68	0.20	—	17,701
Total	—	—	—	—	—	—	—	—	—	—	—	—	27,638	27,638	2.63	0.32	—	27,799

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,260	4,260	0.41	0.05	—	4,285
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,616	1,616	0.15	0.02	—	1,625
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,390	3,390	0.32	0.04	—	3,410
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	674	674	0.06	0.01	—	677
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	99.8	99.8	0.01	< 0.005	—	100
undefined	—	—	—	—	—	—	—	—	—	—	—	—	17,599	17,599	1.68	0.20	—	17,701
Total	—	—	—	—	—	—	—	—	—	—	—	—	27,638	27,638	2.63	0.32	—	27,799
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	705	705	0.07	0.01	—	709

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	—	268	268	0.03	< 0.005	—	269
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	561	561	0.05	0.01	—	565
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	112	112	0.01	< 0.005	—	112
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	16.5	16.5	< 0.005	< 0.005	—	16.6
undefined	—	—	—	—	—	—	—	—	—	—	—	—	2,914	2,914	0.28	0.03	—	2,931
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,576	4,576	0.44	0.05	—	4,602

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated Warehouse-Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Convenience Market (24 hour)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Total	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Convenience Market (24 hour)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Total	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Convenience Market (24 hour)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.2	18.2	< 0.005	< 0.005	—	18.2
Total	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.2	18.2	< 0.005	< 0.005	—	18.2

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Convenience Market (24 hour)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant with Drive Thru	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Total	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Convenience Market (24 hour)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Total	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Convenience Market (24 hour)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.2	18.2	< 0.005	< 0.005	—	18.2
Total	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.2	18.2	< 0.005	< 0.005	—	18.2

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	48.1	48.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	2.96	2.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	17.4	16.0	0.82	97.5	0.01	0.17	—	0.17	0.13	—	0.13	—	401	401	0.02	< 0.005	—	403
Total	68.4	67.1	0.82	97.5	0.01	0.17	—	0.17	0.13	—	0.13	—	401	401	0.02	< 0.005	—	403
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	48.1	48.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.96	2.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	51.1	51.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.78	8.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.54	0.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.56	1.44	0.07	8.78	< 0.005	0.02	—	0.02	0.01	—	0.01	—	32.7	32.7	< 0.005	< 0.005	—	32.9
Total	10.9	10.8	0.07	8.78	< 0.005	0.02	—	0.02	0.01	—	0.01	—	32.7	32.7	< 0.005	< 0.005	—	32.9

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	48.1	48.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.96	2.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	17.4	16.0	0.82	97.5	0.01	0.17	—	0.17	0.13	—	0.13	—	401	401	0.02	< 0.005	—	403
Total	68.4	67.1	0.82	97.5	0.01	0.17	—	0.17	0.13	—	0.13	—	401	401	0.02	< 0.005	—	403
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	48.1	48.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.96	2.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	51.1	51.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.78	8.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.54	0.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	1.56	1.44	0.07	8.78	< 0.005	0.02	—	0.02	0.01	—	0.01	—	32.7	32.7	< 0.005	< 0.005	—	32.9
Total	10.9	10.8	0.07	8.78	< 0.005	0.02	—	0.02	0.01	—	0.01	—	32.7	32.7	< 0.005	< 0.005	—	32.9

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	431	1,284	1,715	44.3	1.06	—	3,140
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	163	466	629	16.8	0.40	—	1,170
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	388	1,107	1,495	39.9	0.96	—	2,778
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	3.12	8.90	12.0	0.32	0.01	—	22.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.74	4.97	6.72	0.18	< 0.005	—	12.5
Total	—	—	—	—	—	—	—	—	—	—	—	988	2,870	3,858	102	2.44	—	7,123
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	431	1,284	1,715	44.3	1.06	—	3,140
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	163	466	629	16.8	0.40	—	1,170
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	388	1,107	1,495	39.9	0.96	—	2,778
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	3.12	8.90	12.0	0.32	0.01	—	22.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.74	4.97	6.72	0.18	< 0.005	—	12.5
Total	—	—	—	—	—	—	—	—	—	—	—	988	2,870	3,858	102	2.44	—	7,123
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	71.4	213	284	7.34	0.18	—	520
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	27.1	77.1	104	2.78	0.07	—	194
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	64.3	183	247	6.61	0.16	—	460
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	0.52	1.47	1.99	0.05	< 0.005	—	3.70
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.29	0.82	1.11	0.03	< 0.005	—	2.07
Total	—	—	—	—	—	—	—	—	—	—	—	164	475	639	16.8	0.40	—	1,179

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	431	1,284	1,715	44.3	1.06	—	3,140

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	163	466	629	16.8	0.40	—	1,170
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	388	1,107	1,495	39.9	0.96	—	2,778
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	3.12	8.90	12.0	0.32	0.01	—	22.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.74	4.97	6.72	0.18	< 0.005	—	12.5
Total	—	—	—	—	—	—	—	—	—	—	—	988	2,870	3,858	102	2.44	—	7,123
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	431	1,284	1,715	44.3	1.06	—	3,140
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	163	466	629	16.8	0.40	—	1,170
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	388	1,107	1,495	39.9	0.96	—	2,778
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	3.12	8.90	12.0	0.32	0.01	—	22.3

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.74	4.97	6.72	0.18	< 0.005	—	12.5
Total	—	—	—	—	—	—	—	—	—	—	—	988	2,870	3,858	102	2.44	—	7,123
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	71.4	213	284	7.34	0.18	—	520
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	27.1	77.1	104	2.78	0.07	—	194
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	64.3	183	247	6.61	0.16	—	460
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	0.52	1.47	1.99	0.05	< 0.005	—	3.70
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.29	0.82	1.11	0.03	< 0.005	—	2.07
Total	—	—	—	—	—	—	—	—	—	—	—	164	475	639	16.8	0.40	—	1,179

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	493	0.00	493	49.2	0.00	—	1,724
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	187	0.00	187	18.7	0.00	—	654
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	586	0.00	586	58.5	0.00	—	2,049
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	35.6	0.00	35.6	3.56	0.00	—	125
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	18.6	0.00	18.6	1.86	0.00	—	65.2
Total	—	—	—	—	—	—	—	—	—	—	—	1,319	0.00	1,319	132	0.00	—	4,616

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	493	0.00	493	49.2	0.00	—	1,724
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	187	0.00	187	18.7	0.00	—	654
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	586	0.00	586	58.5	0.00	—	2,049
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	35.6	0.00	35.6	3.56	0.00	—	125
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	18.6	0.00	18.6	1.86	0.00	—	65.2
Total	—	—	—	—	—	—	—	—	—	—	—	1,319	0.00	1,319	132	0.00	—	4,616
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	81.6	0.00	81.6	8.15	0.00	—	285
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	30.9	0.00	30.9	3.09	0.00	—	108

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	96.9	0.00	96.9	9.69	0.00	—	339
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	5.90	0.00	5.90	0.59	0.00	—	20.6
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	3.08	0.00	3.08	0.31	0.00	—	10.8
Total	—	—	—	—	—	—	—	—	—	—	—	218	0.00	218	21.8	0.00	—	764

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	493	0.00	493	49.2	0.00	—	1,724
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	187	0.00	187	18.7	0.00	—	654
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	586	0.00	586	58.5	0.00	—	2,049

Convenience	—	—	—	—	—	—	—	—	—	—	—	35.6	0.00	35.6	3.56	0.00	—	125
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	18.6	0.00	18.6	1.86	0.00	—	65.2
Total	—	—	—	—	—	—	—	—	—	—	—	1,319	0.00	1,319	132	0.00	—	4,616
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	493	0.00	493	49.2	0.00	—	1,724
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	187	0.00	187	18.7	0.00	—	654
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	586	0.00	586	58.5	0.00	—	2,049
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	35.6	0.00	35.6	3.56	0.00	—	125
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	18.6	0.00	18.6	1.86	0.00	—	65.2
Total	—	—	—	—	—	—	—	—	—	—	—	1,319	0.00	1,319	132	0.00	—	4,616
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	81.6	0.00	81.6	8.15	0.00	—	285
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	30.9	0.00	30.9	3.09	0.00	—	108
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	96.9	0.00	96.9	9.69	0.00	—	339
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	5.90	0.00	5.90	0.59	0.00	—	20.6
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	3.08	0.00	3.08	0.31	0.00	—	10.8
Total	—	—	—	—	—	—	—	—	—	—	—	218	0.00	218	21.8	0.00	—	764

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	228	228
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,561	4,561
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.69	4.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,794	4,794
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	228	228
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,561	4,561
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.69	4.69

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,794	4,794
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.8	37.8
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	755	755
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	794	794

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	228	228
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,561	4,561
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.69	4.69

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,794	4,794
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	228	228
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,561	4,561
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.69	4.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,794	4,794
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.8	37.8
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	755	755
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	794	794

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	4/1/2027	4/14/2027	6.00	12.0	—
Grading	Grading	4/15/2027	5/20/2027	6.00	31.0	—

Fine Grading	Grading	8/15/2028	9/19/2028	6.00	31.0	—
Building Construction	Building Construction	6/29/2027	6/23/2028	6.00	310	—
Underground Utilities	Building Construction	5/21/2027	6/28/2027	6.00	33.0	—
Paving	Paving	6/24/2028	7/19/2028	6.00	22.0	—
Architectural Coating	Architectural Coating	7/20/2028	8/14/2028	6.00	22.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	15.0	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	20.0	8.00	84.0	0.37
Grading	Graders	Diesel	Average	5.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	10.0	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	10.0	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	10.0	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	5.00	8.00	367	0.40
Fine Grading	Graders	Diesel	Average	5.00	8.00	148	0.41
Fine Grading	Excavators	Diesel	Average	10.0	8.00	36.0	0.38
Fine Grading	Tractors/Loaders/Backhoes	Diesel	Average	10.0	8.00	84.0	0.37
Fine Grading	Scrapers	Diesel	Average	10.0	8.00	423	0.48
Fine Grading	Rubber Tired Dozers	Diesel	Average	5.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	15.0	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	5.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	5.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	5.00	8.00	46.0	0.45

Building Construction	Tractors/Loaders/Back	Diesel	Average	15.0	7.00	84.0	0.37
Underground Utilities	Excavators	Diesel	Average	20.0	8.00	36.0	0.38
Underground Utilities	Trenchers	Diesel	Average	5.00	8.00	40.0	0.50
Underground Utilities	Off-Highway Trucks	Diesel	Average	20.0	4.00	376	0.38
Underground Utilities	Plate Compactors	Diesel	Average	15.0	8.00	8.00	0.43
Underground Utilities	Rubber Tired Loaders	Diesel	Average	5.00	8.00	150	0.36
Underground Utilities	Skid Steer Loaders	Diesel	Average	20.0	8.00	71.0	0.37
Paving	Pavers	Diesel	Average	10.0	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	10.0	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	10.0	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	5.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	15.0	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	20.0	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	5.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	10.0	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	10.0	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	10.0	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	5.00	8.00	367	0.40
Fine Grading	Graders	Diesel	Tier 4 Final	5.00	8.00	148	0.41
Fine Grading	Excavators	Diesel	Average	10.0	8.00	36.0	0.38
Fine Grading	Tractors/Loaders/Backhoes	Diesel	Average	10.0	8.00	84.0	0.37
Fine Grading	Scrapers	Diesel	Tier 4 Final	10.0	8.00	423	0.48
Fine Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	5.00	8.00	367	0.40

Building Construction	Forklifts	Diesel	Average	15.0	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	5.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	5.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	5.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	15.0	7.00	84.0	0.37
Underground Utilities	Excavators	Diesel	Average	20.0	8.00	36.0	0.38
Underground Utilities	Trenchers	Diesel	Average	5.00	8.00	40.0	0.50
Underground Utilities	Off-Highway Trucks	Diesel	Tier 4 Final	20.0	4.00	376	0.38
Underground Utilities	Plate Compactors	Diesel	Average	15.0	8.00	8.00	0.43
Underground Utilities	Rubber Tired Loaders	Diesel	Tier 4 Final	5.00	8.00	150	0.36
Underground Utilities	Skid Steer Loaders	Diesel	Average	20.0	8.00	71.0	0.37
Paving	Pavers	Diesel	Average	10.0	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	10.0	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	10.0	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	5.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	90.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	10.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	500	18.5	LDA,LDT1,LDT2
Grading	Vendor	10.0	10.2	HHDT,MHDT

Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	4,700	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	1,840	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	80.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	10.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	1,880	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	10.0	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Fine Grading	—	—	—	—
Fine Grading	Worker	500	18.5	LDA,LDT1,LDT2
Fine Grading	Vendor	10.0	10.2	HHDT,MHDT
Fine Grading	Hauling	0.00	20.0	HHDT
Fine Grading	Onsite truck	—	—	HHDT
Underground Utilities	—	—	—	—
Underground Utilities	Worker	4,700	18.5	LDA,LDT1,LDT2
Underground Utilities	Vendor	1,840	10.2	HHDT,MHDT
Underground Utilities	Hauling	0.00	20.0	HHDT
Underground Utilities	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	90.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	10.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	500	18.5	LDA,LDT1,LDT2
Grading	Vendor	10.0	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	4,700	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	1,840	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	80.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	10.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	1,880	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	10.0	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Fine Grading	—	—	—	—

Fine Grading	Worker	500	18.5	LDA,LDT1,LDT2
Fine Grading	Vendor	10.0	10.2	HHDT,MHDT
Fine Grading	Hauling	0.00	20.0	HHDT
Fine Grading	Onsite truck	—	—	HHDT
Underground Utilities	—	—	—	—
Underground Utilities	Worker	4,700	18.5	LDA,LDT1,LDT2
Underground Utilities	Vendor	1,840	10.2	HHDT,MHDT
Underground Utilities	Hauling	0.00	20.0	HHDT
Underground Utilities	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	3,363,903	1,121,301	89,865

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	90.0	0.00	—
Grading	—	—	465	0.00	—
Fine Grading	—	—	465	0.00	—
Paving	0.00	0.00	0.00	0.00	34.4

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-Rail	0.00	0%
Industrial Park	0.00	0%
Convenience Market (24 hour)	0.00	0%
Other Asphalt Surfaces	34.4	100%
Fast Food Restaurant with Drive Thru	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00	532	0.03	< 0.005
2028	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,760	1,760	1,760	642,507	22,532	22,532	22,532	8,224,093
Unrefrigerated Warehouse-Rail	668	668	668	243,710	40,730	40,730	40,730	14,866,299

Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market (24 hour)	653	653	653	238,491	3,829	11,076	11,076	2,153,456
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant with Drive Thru	1,402	1,402	1,402	511,891	7,043	23,774	23,774	4,315,454

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,760	1,760	1,760	642,507	22,532	22,532	22,532	8,224,093
Unrefrigerated Warehouse-Rail	668	668	668	243,710	40,730	40,730	40,730	14,866,299
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market (24 hour)	653	653	653	238,491	3,829	11,076	11,076	2,153,456
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant with Drive Thru	1,402	1,402	1,402	511,891	7,043	23,774	23,774	4,315,454

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	3,363,903	1,121,301	89,865

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,491,864	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-Rail	1,703,812	346	0.0330	0.0040	0.00
Industrial Park	3,574,080	346	0.0330	0.0040	0.00
Convenience Market (24 hour)	710,090	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
Fast Food Restaurant with Drive Thru	105,200	346	0.0330	0.0040	342,813

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	4,491,864	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-Rail	1,703,812	346	0.0330	0.0040	0.00
Industrial Park	3,574,080	346	0.0330	0.0040	0.00
Convenience Market (24 hour)	710,090	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
Fast Food Restaurant with Drive Thru	105,200	346	0.0330	0.0040	342,813

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	224,899,413	13,881,770
Unrefrigerated Warehouse-Rail	85,306,738	0.00
Industrial Park	202,614,313	0.00
Convenience Market (24 hour)	1,629,595	0.00
Other Asphalt Surfaces	0.00	0.00
Fast Food Restaurant with Drive Thru	910,601	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	224,899,413	13,881,770
Unrefrigerated Warehouse-Rail	85,306,738	0.00

Industrial Park	202,614,313	0.00
Convenience Market (24 hour)	1,629,595	0.00
Other Asphalt Surfaces	0.00	0.00
Fast Food Restaurant with Drive Thru	910,601	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	914	—
Unrefrigerated Warehouse-Rail	347	—
Industrial Park	1,086	—
Convenience Market (24 hour)	66.1	—
Other Asphalt Surfaces	0.00	—
Fast Food Restaurant with Drive Thru	34.6	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	914	—
Unrefrigerated Warehouse-Rail	347	—
Industrial Park	1,086	—
Convenience Market (24 hour)	66.1	—
Other Asphalt Surfaces	0.00	—
Fast Food Restaurant with Drive Thru	34.6	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Convenience Market (24 hour)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Convenience Market (24 hour)	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Convenience Market (24 hour)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Convenience Market (24 hour)	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Forklifts	Electric	Average	161	24.0	82.0	0.20
Forklifts	Electric	Average	5.00	24.0	200	0.20

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Forklifts	Electric	Average	161	24.0	82.0	0.20
Forklifts	Electric	Average	5.00	24.0	200	0.20

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	31.8	annual days of extreme heat
Extreme Precipitation	0.20	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.18	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	78.0
AQ-PM	8.85
AQ-DPM	26.8
Drinking Water	70.3
Lead Risk Housing	60.6

Pesticides	50.3
Toxic Releases	9.25
Traffic	48.5
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	14.3
Haz Waste Facilities/Generators	92.6
Impaired Water Bodies	0.00
Solid Waste	23.0
Sensitive Population	—
Asthma	99.6
Cardio-vascular	99.9
Low Birth Weights	80.5
Socioeconomic Factor Indicators	—
Education	65.5
Housing	20.3
Linguistic	20.6
Poverty	68.9
Unemployment	19.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	41.06249198
Employed	23.22597203
Median HI	43.12844861
Education	—

Bachelor's or higher	17.25907866
High school enrollment	8.879763891
Preschool enrollment	1.873476197
Transportation	—
Auto Access	44.50147568
Active commuting	22.25073784
Social	—
2-parent households	52.02104453
Voting	40.33106634
Neighborhood	—
Alcohol availability	86.06441678
Park access	31.37431028
Retail density	8.430642885
Supermarket access	2.399589375
Tree canopy	0.372128834
Housing	—
Homeownership	48.9285256
Housing habitability	54.77993071
Low-inc homeowner severe housing cost burden	97.42076222
Low-inc renter severe housing cost burden	16.45066085
Uncrowded housing	36.04516874
Health Outcomes	—
Insured adults	64.54510458
Arthritis	0.0
Asthma ER Admissions	0.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0

Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	7.6
Cognitively Disabled	56.3
Physically Disabled	65.4
Heart Attack ER Admissions	0.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	72.4
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	36.4
Elderly	64.7
English Speaking	74.5
Foreign-born	9.3
Outdoor Workers	40.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	90.5
Traffic Density	50.1

Traffic Access	23.0
Other Indices	—
Hardship	75.9
Other Decision Support	—
2016 Voting	55.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	62.0
Healthy Places Index Score for Project Location (b)	25.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition needed. Scaled down by 5 to match client schedule projection.
Construction: Off-Road Equipment	Used a solar project as a template for underground utilities phase. Scaled up by 5 to match scaled down construction schedule.

Construction: Dust From Material Movement	Changed according to PD
Construction: Trips and VMT	Rounded up to even numbers and added 2 vendor trucks to each phase. Scaled up by 5 to match scaled down construction schedule.
Operations: Vehicle Data	Adjusted according to traffic report and VMT analysis. Warehouse no-rail represents warehouse passenger vehicles (workers) and as such trip length set equal to the VMT analysis employee trips distance of 12.8 miles per trip. Total trips based on traffic analysis and trip generation analysis.
Operations: Fleet Mix	Adjusted according to fleet mix calcs in calculations and assumptions excel sheet. Industrial park will only have EV vehicles visiting.
Operations: Off-Road Equipment	Forklifts and yard trucks (200hp) added according to usual WH assumptions.
Operations: Energy Use	Client reported that no NG will be used during operation. Input EV charging electricity demand under industrial park.

1. Electric Lift Vehicles - Energy Consumption

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Drive Motor Capacity (hp)	Drive Motor Capacity (kW)	Facility Operation (hrs/day)	Vehicle Operation Load Factor[4]	Vehicle Operation (days/week)	Vehicle Operation (weeks/yr)	Vehicle Operation (hrs/year)	Electric Energy Consumption per Unit (kWhr/day/Unit)	Electric Energy Consumption per Unit (kWhr/yr/Unit)	# of Units	Total Energy Consumption (kWhr/day)	Total Energy Consumption (kWhr/yr)
Large Forklift[3]	7,000-11,000	Drive Motor Capacity	24	18	24	0.2	7	52	1747.2	86.40	31,449.60	161	13910.40	5,063,385.60
		Lift Motor Capacity	27	20	24	0.05	7	52	436.8	24.00	8,736.00		3864.00	1,406,496.00
Yard Truck[5]	N/A	Drive Motor Capacity	215	160	24	0.2	7	52	1747.2	768.00	279,552.00	5	3840.00	1,397,760.00
												Total	21,614.40	7,867,641.60

[1] Based on Global Industrial™ 3300 LB. CAPACITY SELF-PROPELLED ELECTRIC POWER PALLET JACK TRUCK

https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw_sn8BRBrEiwAnUGJDsnUx19IvgquuJTz2DOx51UqkSAlg9VO22XpkzJZWyI-FmMiqFRaeRoCOqEQAvD_BwE

[2] Based on CAT Model EP12ANT - EP20ANT
https://www.catlifttruck.com/lift-trucks/counterbalance-forklift-trucks/electric-powered-lift-trucks/ep14-20acnt

[3] Based on CAT Model 2EPC7000 - 2EP11000
https://www.logisnextamericas.com/-/media/mcfa/sites/portal/files/forklifts/cat-lift-trucks/sales%20literature/clt-i-2epc7000-2ep11000-english.pdf

[4] Drive motor load factor based on CalEEMod User Manual Table 3.3 for offroad forklift load factor
Lift motor load factor set equal of 25% of drive motor capacity factor based on engineering estimate.

[5] Based on Kalmar Ottawa T22 - 4x2 Electric Yard Truck

2. Electric Lift Vehicles - Greenhouse Gas (GHG) Emissions

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Total Energy Consumption (kWhr/day)	Total Energy Consumption (kWhr/yr)	GHG Intensity Factors CO2	CH4	N2O	CO_2e[1] (lb/MWhr)	Annual GHG Emissions CO2	CH4	N2O	CO_2e (Metric TPY)
Large Forklift	7,000-11,000	Drive Motor Capacity	13910.4	5,063,385.60	531.983	0.033	0.004	534	1,221.81	0.08	0.01	1,226.45
		Lift Motor Capacity	3864	1,406,496.00	531.983	0.033	0.004	534	339.39	0.02	0.00	340.68
Yard Truck	N/A	Drive Motor Capacity	3840.00	1,397,760.00	531.983	0.033	0.004	534	337.28	0.02	0.00	338.56
									Total 1898.49	0.12	0.01	1905.69

[1] Based on CalEEMod default GHG intensity for SCE.

Table 3. SF6 Calculations

Source	Breaker (kV)	Number of Breakers	Pounds of SF_6	MT of SF_6	Leak Rate	Global Warming Potential	MT CO_2e
PG&E Substation Breaker	115	1	61.2	0.028	1%	23,900	3.32

Truck Trip Distance Methodology and Calculations

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (MD)
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Categor	Model Year	Speed	Fuel	Population	Total VMT	Trips	NOx_RUNI	NOx_IDLE	NOx_STRE	PM2.5_RU	PM2.5_IDLI	PM2.5_STR	PM2.5_PMTW	PM2.5_PMBW
San Bernardino (MD)	2028	HHDT	Aggregate	Aggregate	Diesel	14136.16501	2867817.757	295282.3251	4.28362	1.69914	0.784853	0.10223	0.000645	0	0.028399243	0.080267627
San Bernardino (MD)	2028	LHDT1	Aggregate	Aggregate	Diesel	10126.24961	372277.8183	127375.4813	0.676746	0.021657	0	0.009797	0.000293	0	0.001231098	0.011202993
San Bernardino (MD)	2028	LHDT2	Aggregate	Aggregate	Diesel	4553.215516	169284.5821	57273.72325	0.233948	0.009487	0	0.004036	0.000133	0	0.000559813	0.005943347
San Bernardino (MD)	2028	MHDT	Aggregate	Aggregate	Diesel	2932.415788	165558.4456	39168.50439	0.103611	0.031461	0.058125	0.001636	3.72E-05	0	0.000547491	0.002665109
Average							235706.9487	74605.90297								

	Percent of Trucks	Number of Trucks			VMT	Trips	VMT/trip
2-Axle Trucks	26.2%	71	LHDT1, LHDT2		541,562	184,649	2.932925716
3-Axle Trucks	24.4%	66	MHDT		165,558	39,169	4.226825818
4+-Axle Trucks	49.4%	134	HHDT		2,867,818	295,282	9.712121293
	100.0%	271		Weighted Average (All Trucks)	**1600241.208**	**203922.6803**	**7.84729391**

Assume all HHDT trip to port and use project specific trip distance
Assume all 2-4 Axle Trucks make local deliveries within County and use EMFAC average VMT/trip.

		Percent of Trucks	Number of Trucks			VMT	Trips	VMT/trip	
	2-Axle Trucks	16.8%	71	LHDT1, LHDT2		541562.4004	184649.2045	4.23	Set equal to MHDT length as conservative estimation
	3-Axle Trucks	20.7%	66	MHDT		165558.4456	39168.50439	4.23	
50% HHDT from Port	5+-Axle Trucks (50%)	31.3%	67	HHDT				134	Set equal to distance to Port of Long Beach
50% Depart Warehouse and Based on	5+-Axle Trucks (50%)	31.3%	67	HHDT				9.71	Set equal to distance to port
EMFAC Regional HHDT Trip Distance		100.0%			Weighted Average (All Trucks)			**45.67**	

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (MD)
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Categor	Model Year	Speed	Fuel	Population	Total VMT	Trips	NOx_RUNE	NOx_IDLEX	NOx_STRE	PM2.5_RUI	PM2.5_IDLEX
San Bernardino (MD)	2028	HHDT	Aggregate	Aggregate	Diesel	14136.16501	2867817.757	295282.3251	4.28362	1.69914	0.784853	0.10223	0.000645431
San Bernardino (MD)	2028	LHDT1	Aggregate	Aggregate	Diesel	10126.24961	372277.8183	127375.4813	0.676746	0.021657	0	0.009797	0.000293143
San Bernardino (MD)	2028	LHDT2	Aggregate	Aggregate	Diesel	4553.215516	169284.5821	57273.72325	0.233948	0.009487	0	0.004036	0.000132814
San Bernardino (MD)	2028	MHDT	Aggregate	Aggregate	Diesel	2932.415788	165558.4456	39168.50439	0.103611	0.031461	0.058125	0.001636	3.71911E-05
Average							235706.9487	74605.90297					

	Percent of Trucks	Number of Trucks		VMT	Trips	VMT/trip
2-Axle Trucks			LHDT1, LHDT2	541,562	184,649	2.932925716
3-Axle Trucks			MHDT	165,558	39,169	4.226825818
4+-Axle Trucks			HHDT	2,867,818	295,282	9.712121293

Assume all HHDT trip to port and use project specific trip distance
Assume all 2-4 Axle Trucks make local deliveries within County and use EMFAC average VMT/trip.

		Percent of Trucks		VMT	Trips	VMT/trip	
	2-Axle Trucks	16.8%	LHDT1, LHDT2	541562.4004	184649.2045	40	Since less than SCAQMD 40 miles, set equal to 40 miles
	3-Axle Trucks	20.7%	MHDT	165558.4456	39168.50439	40	Since less than SCAQMD 40 miles, set equal to 40 miles
50% HHDT from Port	5+-Axle Trucks (50%)	31.3%	HHDT			134	Set equal to distance to Port of Long Beach
50% Depart Warehouse and Based on	5+-Axle Trucks (50%)	31.3%	HHDT			40	Since less than SCAQMD 40 miles, set equal to 40 miles
EMFAC Regional HHDT Trip Distance		100.0%		Weighted Average (All Trucks)		**61**	

Table. EV Truck Tire and Brake Particulate Emissions

			CalEEMod Emissions Factors[2]				Daily Emissions			
			Tire Wear		Brake Wear		Tire Wear		Brake Wear	
EV Charging Truck Trips (One-way Trips/day)	Trip Distance[1] (miles)	Total Distance per Day (miles/day)	$PM_{2.5}$ PMTW (g/mi)	PM_{10} PMTW (g/mi)	$PM_{2.5}$ PMBW (g/mi)	PM_{10} PMBW (g/mi)	$PM_{2.5}$ PMTW (lb/day)	PM_{10} PMTW (lb/day)	$PM_{2.5}$ PMBW (lb/day)	PM_{10} PMBW (lb/day)
658	3.6	2368.8	0.009	0.036	0.025	0.072	0.047	0.188	0.131	0.376

[1] Based on EV truck travel to and from the highway (Interstate 15 via Lenwood Rd.)
As discussed in the VMT analysis, EV charging facilities that will primarily serve vehicles already using the adjacent freeways. This component, although not strictly local-serving in nature, does not generate additional trips that were not already occurring

[2] Conservative assumption that all trucks are Heavy-Heavy Duty (HHD)

Table. EV Truck Energy and GHG Emissions

EV Charging Truck Trips (One-way Trips/day)	Trip Distance[1] (miles)	Total Distance per Day (miles/day)	Energy Consumption Factors[3]		Energy Averages		GHG Intensity Factors[2]				Annual GHG Emissions			
			kWh/km	kWh/mile	kWh/day	kWh/yr	CO2 (lb/MWhr)	CH4	N2O	CO_2e[1]	CO2 (Metric TPY)	CH4	N2O	CO_2e
658	3.6	2368.8	1.1	1.770	4,193	1,530,604	531.983	0.033	0.004	534	369.34	0.02	0.00	370.74

[1] Based on EV truck travel to and from the highway (Interstate 15 via Lennwood Rd.)

As discussed in the VMT analysis, EV charging facilities that will primarily serve vehicles already using the adjacent freeways. This component, although not strictly local-serving in nature, does not generate additional trips that were not already occurring

[2] Based on CalEEMod default GHG intensity for SCE.

[3] Energy Consumption Factor Source:

Volvo's electric truck in first independent efficiency test | Volvo Trucks

https://www.volvotrucks.com/en-en/news-stories/press-releases/2022/jan/volvos-heavy-duty-electric-truck-is-put-to-the-test-excels-in-both-range-and-energy-efficiency.html

Facts about the test and the truck

- Gross combination weight: 40 tonnes
- Average speed: 80 km/h
- Energy consumption: 1,1 kWh/km
- Battery capacity: 540 kWh
- Output power: 490 kW continuous power
- Total test track distance: 343 km
- Total range based on one charge: 345 km
- The tested Volvo FH Electric can cover up to 500 km during a normal workday if a top-up charge is added, for example during the lunch break.

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Construction HRA
Files

Lenwood EV Con HRA Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Lenwood EV Con HRA
Construction Start Date	4/1/2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	5.00
Precipitation (days)	11.6
Location	34.88605560747003, -117.11627169436377
County	San Bernardino-Mojave Desert
City	Unincorporated
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5110
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southwest Gas Corp.
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	973	1000sqft	22.3	972,538	627,041	—	—	—

Unrefrigerated Warehouse-Rail	369	1000sqft	8.47	368,894	0.00	—	—	—
Industrial Park	876	1000sqft	20.1	876,170	0.00	—	—	—
Convenience Market (24 hour)	22.0	1000sqft	0.51	22,000	0.00	—	—	—
Other Asphalt Surfaces	1,498	1000sqft	34.4	0.00	0.00	—	—	—
Fast Food Restaurant with Drive Thru	3.00	1000sqft	0.07	3,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-13	Use Low-VOC Paints for Construction

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	492	492	140	141	0.30	5.86	38.3	44.2	5.39	19.7	25.1	—	33,009	33,009	1.34	0.70	2.41	33,123
Mit.	97.1	97.0	69.9	176	0.30	1.54	38.3	39.3	1.44	19.7	20.6	—	33,009	33,009	1.34	0.70	2.41	33,123
% Reduced	80%	80%	50%	-24%	—	74%	—	11%	73%	—	18%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	7.55	6.33	68.1	83.0	0.17	1.70	0.29	1.99	1.56	0.08	1.64	—	15,360	15,360	0.61	0.63	0.06	15,564
Mit.	6.06	5.15	55.9	91.0	0.17	1.19	0.29	1.48	1.10	0.08	1.18	—	15,360	15,360	0.61	0.63	0.06	15,564
% Reduced	20%	19%	18%	-10%	—	30%	—	25%	29%	—	28%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	34.7	33.9	53.3	63.6	0.13	1.59	2.94	4.53	1.47	1.30	2.76	—	12,941	12,941	0.52	0.37	0.55	13,066
Mit.	9.22	8.78	34.2	73.7	0.13	0.78	2.94	3.72	0.73	1.30	2.02	—	12,941	12,941	0.52	0.37	0.55	13,066
% Reduced	73%	74%	36%	-16%	—	51%	—	18%	50%	—	27%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.32	6.19	9.73	11.6	0.02	0.29	0.54	0.83	0.27	0.24	0.50	—	2,143	2,143	0.09	0.06	0.09	2,163
Mit.	1.68	1.60	6.24	13.5	0.02	0.14	0.54	0.68	0.13	0.24	0.37	—	2,143	2,143	0.09	0.06	0.09	2,163
% Reduced	73%	74%	36%	-16%	—	51%	—	18%	50%	—	27%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	18.2	15.3	140	141	0.30	5.86	38.3	44.2	5.39	19.7	25.1	—	33,008	33,008	1.34	0.70	2.41	33,122
2028	492	492	122	136	0.30	4.93	17.9	22.9	4.53	7.13	11.7	—	33,009	33,009	1.34	0.59	2.14	33,123
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	7.55	6.33	68.1	83.0	0.17	1.70	0.29	1.99	1.56	0.08	1.64	—	15,360	15,360	0.61	0.63	0.06	15,564
2028	7.28	6.14	65.6	82.7	0.17	1.52	0.29	1.81	1.40	0.08	1.48	—	15,293	15,293	0.61	0.59	0.06	15,485

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.60	5.55	53.3	63.6	0.13	1.59	2.94	4.53	1.47	1.30	2.76	—	12,941	12,941	0.52	0.37	0.55	13,066
2028	34.7	33.9	39.2	48.7	0.10	1.12	1.64	2.77	1.03	0.64	1.67	—	9,571	9,571	0.38	0.27	0.38	9,662
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.20	1.01	9.73	11.6	0.02	0.29	0.54	0.83	0.27	0.24	0.50	—	2,143	2,143	0.09	0.06	0.09	2,163
2028	6.32	6.19	7.16	8.90	0.02	0.20	0.30	0.51	0.19	0.12	0.31	—	1,585	1,585	0.06	0.04	0.06	1,600

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	8.32	7.23	69.9	176	0.30	1.54	38.3	39.3	1.44	19.7	20.6	—	33,008	33,008	1.34	0.70	2.41	33,122
2028	97.1	97.0	53.2	176	0.30	1.28	17.9	18.9	1.18	7.13	8.09	—	33,009	33,009	1.34	0.59	2.14	33,123
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.06	5.15	55.9	91.0	0.17	1.19	0.29	1.48	1.10	0.08	1.18	—	15,360	15,360	0.61	0.63	0.06	15,564
2028	5.86	5.01	54.6	90.7	0.17	1.06	0.29	1.35	0.98	0.08	1.06	—	15,293	15,293	0.61	0.59	0.06	15,485
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	3.98	3.44	34.2	73.7	0.13	0.78	2.94	3.72	0.73	1.30	2.02	—	12,941	12,941	0.52	0.37	0.55	13,066
2028	9.22	8.78	27.1	55.4	0.10	0.60	1.64	2.24	0.56	0.64	1.20	—	9,571	9,571	0.38	0.27	0.38	9,662
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.73	0.63	6.24	13.5	0.02	0.14	0.54	0.68	0.13	0.24	0.37	—	2,143	2,143	0.09	0.06	0.09	2,163
2028	1.68	1.60	4.94	10.1	0.02	0.11	0.30	0.41	0.10	0.12	0.22	—	1,585	1,585	0.06	0.04	0.06	1,600

3. Construction Emissions Details

3.1. Site Preparation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	18.2	15.3	140	141	0.24	5.86	—	5.86	5.39	—	5.39	—	26,489	26,489	1.07	0.21	—	26,580
Dust From Material Movement	—	—	—	—	—	—	38.3	38.3	—	19.7	19.7	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.50	4.60	4.65	0.01	0.19	—	0.19	0.18	—	0.18	—	871	871	0.04	0.01	—	874
Dust From Material Movement	—	—	—	—	—	—	1.26	1.26	—	0.65	0.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.11	0.09	0.84	0.85	< 0.005	0.04	—	0.04	0.03	—	0.03	—	144	144	0.01	< 0.005	—	145
Dust From Material Movement	—	—	—	—	—	—	0.23	0.23	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.01	18.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.25	3.88	29.9	139	0.24	0.98	—	0.98	0.94	—	0.94	—	26,489	26,489	1.07	0.21	—	26,580
Dust From Material Movement	—	—	—	—	—	—	38.3	38.3	—	19.7	19.7	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.13	0.98	4.58	0.01	0.03	—	0.03	0.03	—	0.03	—	871	871	0.04	0.01	—	874
Dust From Material Movement	—	—	—	—	—	—	1.26	1.26	—	0.65	0.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.18	0.84	< 0.005	0.01	—	0.01	0.01	—	0.01	—	144	144	0.01	< 0.005	—	145
Dust From Material Movement	—	—	—	—	—	—	0.23	0.23	—	0.12	0.12	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.01	18.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	17.5	14.7	128	136	0.30	5.22	—	5.22	4.80	—	4.80	—	32,990	32,990	1.34	0.27	—	33,104
Dust From Material Movement	—	—	—	—	—	—	17.9	17.9	—	7.12	7.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.49	1.25	10.9	11.6	0.03	0.44	—	0.44	0.41	—	0.41	—	2,802	2,802	0.11	0.02	—	2,812
Dust From Material Movement	—	—	—	—	—	—	1.52	1.52	—	0.61	0.61	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.23	1.98	2.11	< 0.005	0.08	—	0.08	0.07	—	0.07	—	464	464	0.02	< 0.005	—	465
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.01	18.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.54	1.54	< 0.005	< 0.005	< 0.005	1.62
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.95	4.59	32.1	176	0.30	1.05	—	1.05	1.01	—	1.01	—	32,990	32,990	1.34	0.27	—	33,104

Dust From Material Movement	—	—	—	—	—	—	17.9	17.9	—	7.12	7.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.39	2.73	14.9	0.03	0.09	—	0.09	0.09	—	0.09	—	2,802	2,802	0.11	0.02	—	2,812
Dust From Material Movement	—	—	—	—	—	—	1.52	1.52	—	0.61	0.61	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.50	2.73	< 0.005	0.02	—	0.02	0.02	—	0.02	—	464	464	0.02	< 0.005	—	465
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.01	18.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.54	1.54	< 0.005	< 0.005	< 0.005	1.62
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Fine Grading (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	17.1	14.4	122	136	0.30	4.93	—	4.93	4.53	—	4.53	—	32,991	32,991	1.34	0.27	—	33,105
Dust From Material Movement	—	—	—	—	—	—	17.9	17.9	—	7.12	7.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.45	1.22	10.3	11.5	0.03	0.42	—	0.42	0.38	—	0.38	—	2,802	2,802	0.11	0.02	—	2,812
Dust From Material Movement	—	—	—	—	—	—	1.52	1.52	—	0.61	0.61	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.22	1.89	2.11	< 0.005	0.08	—	0.08	0.07	—	0.07	—	464	464	0.02	< 0.005	—	465
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.6	17.6	< 0.005	< 0.005	0.01	18.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.51	1.51	< 0.005	< 0.005	< 0.005	1.58
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Fine Grading (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.88	4.54	31.7	176	0.30	1.00	—	1.00	0.96	—	0.96	—	32,991	32,991	1.34	0.27	—	33,105
Dust From Material Movement	—	—	—	—	—	—	17.9	17.9	—	7.12	7.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.41	0.39	2.69	14.9	0.03	0.08	—	0.08	0.08	—	0.08	—	2,802	2,802	0.11	0.02	—	2,812
Dust From Material Movement	—	—	—	—	—	—	1.52	1.52	—	0.61	0.61	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.49	2.73	< 0.005	0.02	—	0.02	0.01	—	0.01	—	464	464	0.02	< 0.005	—	465
Dust From Material Movement	—	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.6	17.6	< 0.005	< 0.005	0.01	18.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.51	1.51	< 0.005	< 0.005	< 0.005	1.58
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.15	5.15	47.0	64.7	0.12	1.68	—	1.68	1.55	—	1.55	—	11,985	11,985	0.49	0.10	—	12,027
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.15	5.15	47.0	64.7	0.12	1.68	—	1.68	1.55	—	1.55	—	11,985	11,985	0.49	0.10	—	12,027
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.25	20.5	28.3	0.05	0.74	—	0.74	0.68	—	0.68	—	5,235	5,235	0.21	0.04	—	5,253
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	0.41	3.74	5.16	0.01	0.13	—	0.13	0.12	—	0.12	—	867	867	0.04	0.01	—	870
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	1.64	1.39	19.8	17.4	0.05	0.02	0.29	0.31	0.02	0.08	0.10	—	3,311	3,311	0.12	0.50	2.41	3,464
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	1.39	1.18	21.2	18.3	0.05	0.02	0.29	0.31	0.02	0.08	0.10	—	3,374	3,374	0.12	0.54	0.06	3,537
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.64	0.55	8.91	7.86	0.02	0.01	0.13	0.13	0.01	0.04	0.04	—	1,458	1,458	0.05	0.23	0.45	1,530
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.12	0.10	1.63	1.43	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	241	241	0.01	0.04	0.08	253
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.66	3.96	34.7	72.7	0.12	1.18	—	1.18	1.09	—	1.09	—	11,985	11,985	0.49	0.10	—	12,027
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.66	3.96	34.7	72.7	0.12	1.18	—	1.18	1.09	—	1.09	—	11,985	11,985	0.49	0.10	—	12,027
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.73	15.2	31.7	0.05	0.51	—	0.51	0.48	—	0.48	—	5,235	5,235	0.21	0.04	—	5,253
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.32	2.77	5.79	0.01	0.09	—	0.09	0.09	—	0.09	—	867	867	0.04	0.01	—	870
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	1.64	1.39	19.8	17.4	0.05	0.02	0.29	0.31	0.02	0.08	0.10	—	3,311	3,311	0.12	0.50	2.41	3,464
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	1.39	1.18	21.2	18.3	0.05	0.02	0.29	0.31	0.02	0.08	0.10	—	3,374	3,374	0.12	0.54	0.06	3,537
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.64	0.55	8.91	7.86	0.02	0.01	0.13	0.13	0.01	0.04	0.04	—	1,458	1,458	0.05	0.23	0.45	1,530
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.12	0.10	1.63	1.43	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	241	241	0.01	0.04	0.08	253
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	5.92	4.96	44.6	64.7	0.12	1.50	—	1.50	1.38	—	1.38	—	11,987	11,987	0.49	0.10	—	12,028
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.92	4.96	44.6	64.7	0.12	1.50	—	1.50	1.38	—	1.38	—	11,987	11,987	0.49	0.10	—	12,028
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.43	2.04	18.3	26.6	0.05	0.62	—	0.62	0.57	—	0.57	—	4,926	4,926	0.20	0.04	—	4,943
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.37	3.35	4.85	0.01	0.11	—	0.11	0.10	—	0.10	—	816	816	0.03	0.01	—	818
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	1.56	1.35	19.6	17.3	0.05	0.02	0.29	0.31	0.02	0.08	0.10	—	3,243	3,243	0.12	0.50	2.14	3,396
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	1.35	1.18	21.0	18.1	0.05	0.02	0.29	0.31	0.02	0.08	0.10	—	3,306	3,306	0.12	0.50	0.06	3,457
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.61	0.52	8.30	7.29	0.02	0.01	0.12	0.13	0.01	0.03	0.04	—	1,344	1,344	0.05	0.20	0.38	1,406
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.11	0.09	1.51	1.33	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	222	222	0.01	0.03	0.06	233
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.50	3.83	33.6	72.7	0.12	1.04	—	1.04	0.96	—	0.96	—	11,987	11,987	0.49	0.10	—	12,028
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	4.50	3.83	33.6	72.7	0.12	1.04	—	1.04	0.96	—	0.96	—	11,987	11,987	0.49	0.10	—	12,028
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	1.85	1.57	13.8	29.9	0.05	0.43	—	0.43	0.40	—	0.40	—	4,926	4,926	0.20	0.04	—	4,943
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.34	0.29	2.52	5.45	0.01	0.08	—	0.08	0.07	—	0.07	—	816	816	0.03	0.01	—	818
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	1.56	1.35	19.6	17.3	0.05	0.02	0.29	0.31	0.02	0.08	0.10	—	3,243	3,243	0.12	0.50	2.14	3,396
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	1.35	1.18	21.0	18.1	0.05	0.02	0.29	0.31	0.02	0.08	0.10	—	3,306	3,306	0.12	0.50	0.06	3,457
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.61	0.52	8.30	7.29	0.02	0.01	0.12	0.13	0.01	0.03	0.04	—	1,344	1,344	0.05	0.20	0.38	1,406
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.11	0.09	1.51	1.33	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	222	222	0.01	0.03	0.06	233
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Underground Utilities (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	11.6	9.75	72.6	106	0.24	2.38	—	2.38	2.19	—	2.19	—	25,126	25,126	1.02	0.20	—	25,213
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.88	6.56	9.59	0.02	0.22	—	0.22	0.20	—	0.20	—	2,272	2,272	0.09	0.02	—	2,279
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.19	0.16	1.20	1.75	< 0.005	0.04	—	0.04	0.04	—	0.04	—	376	376	0.02	< 0.005	—	377
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	1.64	1.39	19.8	17.4	0.05	0.02	0.29	0.31	0.02	0.08	0.10	—	3,311	3,311	0.12	0.50	2.41	3,464
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.13	0.11	1.84	1.63	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	302	302	0.01	0.05	0.09	317
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.02	0.02	0.34	0.30	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	50.0	50.0	< 0.005	0.01	0.02	52.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Underground Utilities (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	6.68	5.84	50.1	144	0.24	1.52	—	1.52	1.42	—	1.42	—	25,126	25,126	1.02	0.20	—	25,213
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.60	0.53	4.53	13.0	0.02	0.14	—	0.14	0.13	—	0.13	—	2,272	2,272	0.09	0.02	—	2,279
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.11	0.10	0.83	2.37	< 0.005	0.03	—	0.03	0.02	—	0.02	—	376	376	0.02	< 0.005	—	377
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	1.64	1.39	19.8	17.4	0.05	0.02	0.29	0.31	0.02	0.08	0.10	—	3,311	3,311	0.12	0.50	2.41	3,464
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.13	0.11	1.84	1.63	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	302	302	0.01	0.05	0.09	317
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.02	0.02	0.34	0.30	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	50.0	50.0	< 0.005	0.01	0.02	52.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.08	3.43	33.1	49.5	0.07	1.28	—	1.28	1.18	—	1.18	—	7,555	7,555	0.31	0.06	—	7,581
Paving	4.09	4.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.21	2.00	2.99	< 0.005	0.08	—	0.08	0.07	—	0.07	—	455	455	0.02	< 0.005	—	457
Paving	0.25	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.36	0.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	75.4	75.4	< 0.005	< 0.005	—	75.7
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.6	17.6	< 0.005	< 0.005	0.01	18.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.07	1.07	< 0.005	< 0.005	< 0.005	1.12
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.08	3.43	33.1	49.5	0.07	1.28	—	1.28	1.18	—	1.18	—	7,555	7,555	0.31	0.06	—	7,581
Paving	4.09	4.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.21	2.00	2.99	< 0.005	0.08	—	0.08	0.07	—	0.07	—	455	455	0.02	< 0.005	—	457
Paving	0.25	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.36	0.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	75.4	75.4	< 0.005	< 0.005	—	75.7
Paving	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.6	17.6	< 0.005	< 0.005	0.01	18.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.07	1.07	< 0.005	< 0.005	< 0.005	1.12
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.54	4.04	5.59	0.01	0.08	—	0.08	0.07	—	0.07	—	668	668	0.03	0.01	—	670
Architectural Coatings	492	492	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.24	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.2	40.2	< 0.005	< 0.005	—	40.4
Architectural Coatings	29.6	29.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.66	6.66	< 0.005	< 0.005	—	6.68
Architectural Coatings	5.41	5.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.6	17.6	< 0.005	< 0.005	0.01	18.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.07	1.07	< 0.005	< 0.005	< 0.005	1.12
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.54	4.04	5.59	0.01	0.08	—	0.08	0.07	—	0.07	—	668	668	0.03	0.01	—	670
Architectural Coatings	96.4	96.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.24	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.2	40.2	< 0.005	< 0.005	—	40.4
Architectural Coatings	5.81	5.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.66	6.66	< 0.005	< 0.005	—	6.68
Architectural Coatings	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.6	17.6	< 0.005	< 0.005	0.01	18.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.07	1.07	< 0.005	< 0.005	< 0.005	1.12
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	4/1/2027	4/14/2027	6.00	12.0	—
Grading	Grading	4/15/2027	5/20/2027	6.00	31.0	—

Fine Grading	Grading	8/15/2028	9/19/2028	6.00	31.0	—
Building Construction	Building Construction	6/29/2027	6/23/2028	6.00	310	—
Underground Utilities	Building Construction	5/21/2027	6/28/2027	6.00	33.0	—
Paving	Paving	6/24/2028	7/19/2028	6.00	22.0	—
Architectural Coating	Architectural Coating	7/20/2028	8/14/2028	6.00	22.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	15.0	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	20.0	8.00	84.0	0.37
Grading	Graders	Diesel	Average	5.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	10.0	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	10.0	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	10.0	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	5.00	8.00	367	0.40
Fine Grading	Graders	Diesel	Average	5.00	8.00	148	0.41
Fine Grading	Excavators	Diesel	Average	10.0	8.00	36.0	0.38
Fine Grading	Tractors/Loaders/Backhoes	Diesel	Average	10.0	8.00	84.0	0.37
Fine Grading	Scrapers	Diesel	Average	10.0	8.00	423	0.48
Fine Grading	Rubber Tired Dozers	Diesel	Average	5.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	15.0	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	5.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	5.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	5.00	8.00	46.0	0.45

Building Construction	Tractors/Loaders/Back	Diesel	Average	15.0	7.00	84.0	0.37
Underground Utilities	Excavators	Diesel	Average	20.0	8.00	36.0	0.38
Underground Utilities	Trenchers	Diesel	Average	5.00	8.00	40.0	0.50
Underground Utilities	Off-Highway Trucks	Diesel	Average	20.0	4.00	376	0.38
Underground Utilities	Plate Compactors	Diesel	Average	15.0	8.00	8.00	0.43
Underground Utilities	Rubber Tired Loaders	Diesel	Average	5.00	8.00	150	0.36
Underground Utilities	Skid Steer Loaders	Diesel	Average	20.0	8.00	71.0	0.37
Paving	Pavers	Diesel	Average	10.0	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	10.0	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	10.0	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	5.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	15.0	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	20.0	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	5.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	10.0	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	10.0	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	10.0	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	5.00	8.00	367	0.40
Fine Grading	Graders	Diesel	Tier 4 Final	5.00	8.00	148	0.41
Fine Grading	Excavators	Diesel	Average	10.0	8.00	36.0	0.38
Fine Grading	Tractors/Loaders/Backhoes	Diesel	Average	10.0	8.00	84.0	0.37
Fine Grading	Scrapers	Diesel	Tier 4 Final	10.0	8.00	423	0.48
Fine Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	5.00	8.00	367	0.40

Building Construction	Forklifts	Diesel	Average	15.0	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	5.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	5.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	5.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	15.0	7.00	84.0	0.37
Underground Utilities	Excavators	Diesel	Average	20.0	8.00	36.0	0.38
Underground Utilities	Trenchers	Diesel	Average	5.00	8.00	40.0	0.50
Underground Utilities	Off-Highway Trucks	Diesel	Tier 4 Final	20.0	4.00	376	0.38
Underground Utilities	Plate Compactors	Diesel	Average	15.0	8.00	8.00	0.43
Underground Utilities	Rubber Tired Loaders	Diesel	Tier 4 Final	5.00	8.00	150	0.36
Underground Utilities	Skid Steer Loaders	Diesel	Average	20.0	8.00	71.0	0.37
Paving	Pavers	Diesel	Average	10.0	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	10.0	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	10.0	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	5.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	10.0	0.19	HHDT,MHDT
Site Preparation	Hauling	0.00	0.19	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	10.0	0.19	HHDT,MHDT

Grading	Hauling	0.00	0.19	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	1,840	0.19	HHDT,MHDT
Building Construction	Hauling	0.00	0.19	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	10.0	0.19	HHDT,MHDT
Paving	Hauling	0.00	0.19	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	10.0	0.19	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.19	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Fine Grading	—	—	—	—
Fine Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Fine Grading	Vendor	10.0	0.19	HHDT,MHDT
Fine Grading	Hauling	0.00	0.19	HHDT
Fine Grading	Onsite truck	—	—	HHDT
Underground Utilities	—	—	—	—
Underground Utilities	Worker	0.00	18.5	LDA,LDT1,LDT2
Underground Utilities	Vendor	1,840	0.19	HHDT,MHDT
Underground Utilities	Hauling	0.00	0.19	HHDT
Underground Utilities	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	10.0	0.19	HHDT,MHDT
Site Preparation	Hauling	0.00	0.19	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	10.0	0.19	HHDT,MHDT
Grading	Hauling	0.00	0.19	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	1,840	0.19	HHDT,MHDT
Building Construction	Hauling	0.00	0.19	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	10.0	0.19	HHDT,MHDT
Paving	Hauling	0.00	0.19	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	10.0	0.19	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.19	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Fine Grading	—	—	—	—

Fine Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Fine Grading	Vendor	10.0	0.19	HHDT,MHDT
Fine Grading	Hauling	0.00	0.19	HHDT
Fine Grading	Onsite truck	—	—	HHDT
Underground Utilities	—	—	—	—
Underground Utilities	Worker	0.00	18.5	LDA,LDT1,LDT2
Underground Utilities	Vendor	1,840	0.19	HHDT,MHDT
Underground Utilities	Hauling	0.00	0.19	HHDT
Underground Utilities	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	3,363,903	1,121,301	89,865

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	90.0	0.00	—
Grading	—	—	465	0.00	—
Fine Grading	—	—	465	0.00	—
Paving	0.00	0.00	0.00	0.00	34.4

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-Rail	0.00	0%
Industrial Park	0.00	0%
Convenience Market (24 hour)	0.00	0%
Other Asphalt Surfaces	34.4	100%
Fast Food Restaurant with Drive Thru	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00	532	0.03	< 0.005
2028	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	31.8	annual days of extreme heat
Extreme Precipitation	0.20	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.18	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	78.0
AQ-PM	8.85
AQ-DPM	26.8
Drinking Water	70.3
Lead Risk Housing	60.6
Pesticides	50.3
Toxic Releases	9.25
Traffic	48.5
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	14.3

Haz Waste Facilities/Generators	92.6
Impaired Water Bodies	0.00
Solid Waste	23.0
Sensitive Population	—
Asthma	99.6
Cardio-vascular	99.9
Low Birth Weights	80.5
Socioeconomic Factor Indicators	—
Education	65.5
Housing	20.3
Linguistic	20.6
Poverty	68.9
Unemployment	19.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	41.06249198
Employed	23.22597203
Median HI	43.12844861
Education	—
Bachelor's or higher	17.25907866
High school enrollment	8.879763891
Preschool enrollment	1.873476197
Transportation	—
Auto Access	44.50147568
Active commuting	22.25073784

Social	—
2-parent households	52.02104453
Voting	40.33106634
Neighborhood	—
Alcohol availability	86.06441678
Park access	31.37431028
Retail density	8.430642885
Supermarket access	2.399589375
Tree canopy	0.372128834
Housing	—
Homeownership	48.9285256
Housing habitability	54.77993071
Low-inc homeowner severe housing cost burden	97.42076222
Low-inc renter severe housing cost burden	16.45066085
Uncrowded housing	36.04516874
Health Outcomes	—
Insured adults	64.54510458
Arthritis	0.0
Asthma ER Admissions	0.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	7.6
Cognitively Disabled	56.3
Physically Disabled	65.4

Heart Attack ER Admissions	0.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	72.4
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	36.4
Elderly	64.7
English Speaking	74.5
Foreign-born	9.3
Outdoor Workers	40.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	90.5
Traffic Density	50.1
Traffic Access	23.0
Other Indices	—
Hardship	75.9
Other Decision Support	—
2016 Voting	55.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	62.0
Healthy Places Index Score for Project Location (b)	25.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

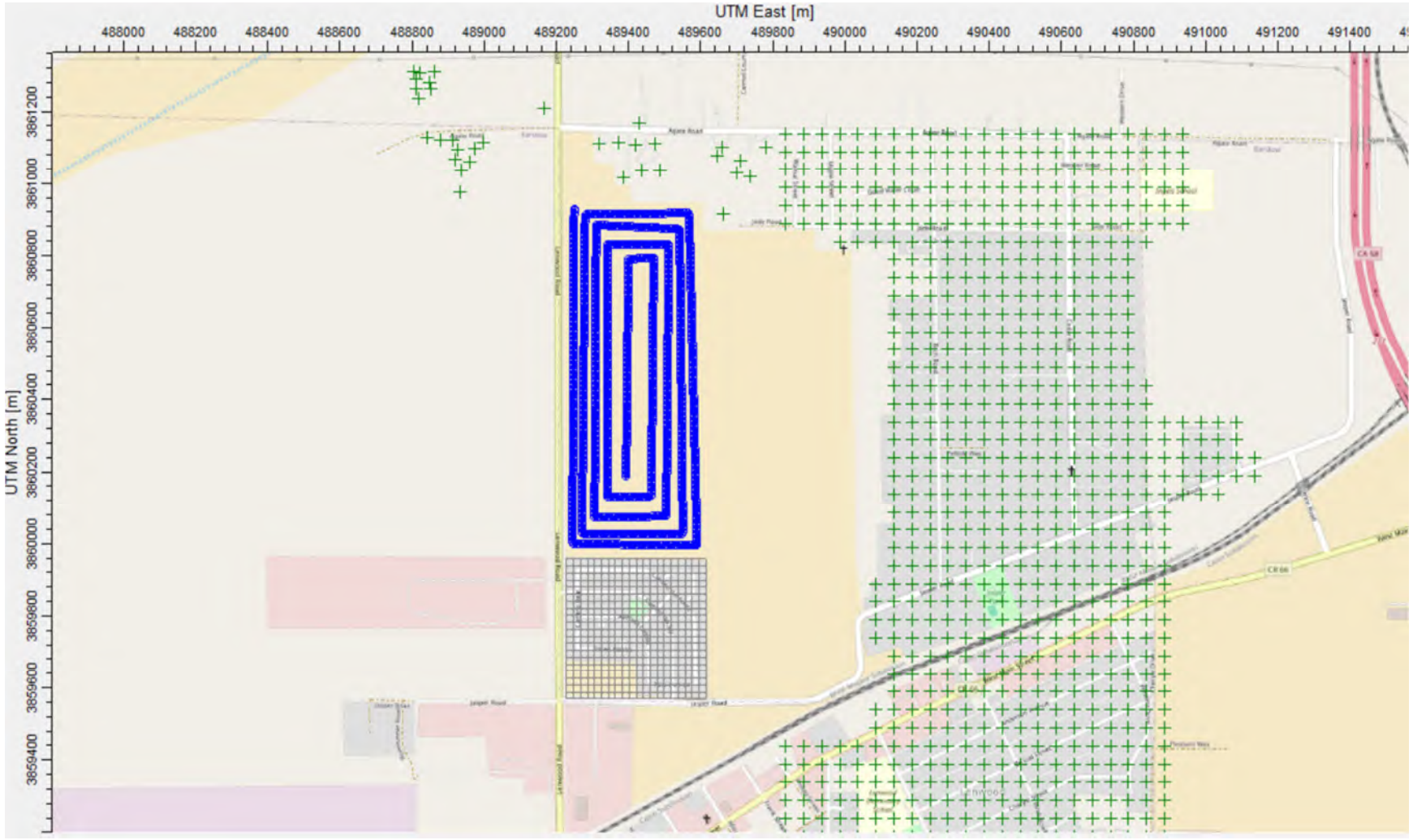
No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition needed. Scaled down by 5 to match client schedule projection.
Construction: Off-Road Equipment	Used a solar project as a template for underground utilities phase. Scaled up by 5 to match scaled down construction schedule.
Construction: Dust From Material Movement	Changed according to PD
Construction: Trips and VMT	Rounded up to even numbers and added 2 vendor trucks to each phase. Scaled up by 5 to match scaled down construction schedule.
Operations: Vehicle Data	Adjusted according to traffic report.
Operations: Fleet Mix	Adjusted according to fleet mix calcs in calculations and assumptions excel sheet. Industrial park will only have EV vehicles visiting.
Operations: Off-Road Equipment	Forklifts and yard trucks (200hp) added according to usual WH assumptions.

Operations: Energy Use	Client reported that no NG will be used during operation. Input EV charging electricity demand under industrial park.

Figure 1. Construction AERMOD Sources and Receptor Locations



Notes: Cartesian receptor grid modeled south of the project site with 20 meter spacing.

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 7/15/2024
** File: C:\Users\dlarocca\Desktop\Lakes Files\15054 Lennwood\Lennwood\Lennwood.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
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   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL Lennwood.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 18
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** 489244.563, 3859999.026, 680.19, 5.00, 4.19
** 489589.844, 3859994.656, 690.22, 5.00, 4.19
** 489567.991, 3860916.861, 669.13, 5.00, 4.19
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   LOCATION L0000003     VOLUME   489248.828 3860905.288 669.44
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   SRCPARAM L0000981     0.001019368      5.00      4.19      4.65
** ------------------------------------------------------------------
   SRCGROUP ALL
SO FINISHED
**
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** AERMOD Receptor Pathway
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**
**
RE STARTING
   INCLUDED Lennwood.rou
RE FINISHED
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** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
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   UAIRDATA 3120 2015
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ME FINISHED
**
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** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST Lennwood.AD\01H1GALL.PLT 31
   PLOTFILE PERIOD ALL Lennwood.AD\PE00GALL.PLT 32
   SUMMFILE Lennwood.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    2054       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    2054       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        15:28:40
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          ***   MODEL SETUP OPTIONS SUMMARY
 ***
 - - -

```
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   584.30 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                              ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      4.0 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   Lennwood.err

 **File for Summary of Results:   Lennwood.sum

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                  PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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NO		NO						
L0000002	0	0.10194E-02	489248.9	3860914.3	669.4	5.00	4.19	4.65
NO		NO						
L0000003	0	0.10194E-02	489248.8	3860905.3	669.4	5.00	4.19	4.65
NO		NO						
L0000004	0	0.10194E-02	489248.8	3860896.3	669.5	5.00	4.19	4.65
NO		NO						
L0000005	0	0.10194E-02	489248.7	3860887.3	670.0	5.00	4.19	4.65
NO		NO						
L0000006	0	0.10194E-02	489248.7	3860878.3	670.4	5.00	4.19	4.65
NO		NO						
L0000007	0	0.10194E-02	489248.7	3860869.3	670.9	5.00	4.19	4.65
NO		NO						
L0000008	0	0.10194E-02	489248.6	3860860.3	671.1	5.00	4.19	4.65
NO		NO						
L0000009	0	0.10194E-02	489248.6	3860851.3	671.1	5.00	4.19	4.65
NO		NO						
L0000010	0	0.10194E-02	489248.5	3860842.3	671.1	5.00	4.19	4.65
NO		NO						
L0000011	0	0.10194E-02	489248.5	3860833.3	671.2	5.00	4.19	4.65
NO		NO						
L0000012	0	0.10194E-02	489248.4	3860824.3	671.5	5.00	4.19	4.65
NO		NO						
L0000013	0	0.10194E-02	489248.4	3860815.3	671.9	5.00	4.19	4.65
NO		NO						
L0000014	0	0.10194E-02	489248.4	3860806.3	672.2	5.00	4.19	4.65
NO		NO						
L0000015	0	0.10194E-02	489248.3	3860797.3	672.6	5.00	4.19	4.65
NO		NO						
L0000016	0	0.10194E-02	489248.3	3860788.3	673.0	5.00	4.19	4.65
NO		NO						
L0000017	0	0.10194E-02	489248.2	3860779.3	673.3	5.00	4.19	4.65
NO		NO						
L0000018	0	0.10194E-02	489248.2	3860770.3	673.6	5.00	4.19	4.65
NO		NO						
L0000019	0	0.10194E-02	489248.1	3860761.3	673.6	5.00	4.19	4.65
NO		NO						
L0000020	0	0.10194E-02	489248.1	3860752.3	673.7	5.00	4.19	4.65
NO		NO						
L0000021	0	0.10194E-02	489248.1	3860743.3	673.8	5.00	4.19	4.65
NO		NO						
L0000022	0	0.10194E-02	489248.0	3860734.3	673.4	5.00	4.19	4.65
NO		NO						
L0000023	0	0.10194E-02	489248.0	3860725.3	673.0	5.00	4.19	4.65
NO		NO						
L0000024	0	0.10194E-02	489247.9	3860716.3	672.6	5.00	4.19	4.65
NO		NO						
L0000025	0	0.10194E-02	489247.9	3860707.3	672.6	5.00	4.19	4.65
NO		NO						

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 L0000026         0   0.10194E-02  489247.9 3860698.3   672.9     5.00     4.19
4.65     NO                    NO
 L0000027         0   0.10194E-02  489247.8 3860689.3   673.2     5.00     4.19
4.65     NO                    NO
 L0000028         0   0.10194E-02  489247.8 3860680.3   673.5     5.00     4.19
4.65     NO                    NO
 L0000029         0   0.10194E-02  489247.7 3860671.3   673.2     5.00     4.19
4.65     NO                    NO
 L0000030         0   0.10194E-02  489247.7 3860662.3   673.0     5.00     4.19
4.65     NO                    NO
 L0000031         0   0.10194E-02  489247.6 3860653.3   672.7     5.00     4.19
4.65     NO                    NO
 L0000032         0   0.10194E-02  489247.6 3860644.3   672.6     5.00     4.19
4.65     NO                    NO
 L0000033         0   0.10194E-02  489247.6 3860635.3   672.6     5.00     4.19
4.65     NO                    NO
 L0000034         0   0.10194E-02  489247.5 3860626.3   672.6     5.00     4.19
4.65     NO                    NO
 L0000035         0   0.10194E-02  489247.5 3860617.3   672.7     5.00     4.19
4.65     NO                    NO
 L0000036         0   0.10194E-02  489247.4 3860608.3   673.1     5.00     4.19
4.65     NO                    NO
 L0000037         0   0.10194E-02  489247.4 3860599.3   673.5     5.00     4.19
4.65     NO                    NO
 L0000038         0   0.10194E-02  489247.3 3860590.3   673.8     5.00     4.19
4.65     NO                    NO
 L0000039         0   0.10194E-02  489247.3 3860581.3   673.7     5.00     4.19
4.65     NO                    NO
 L0000040         0   0.10194E-02  489247.3 3860572.3   673.5     5.00     4.19
4.65     NO                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                  PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
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L0000041	0	0.10194E-02	489247.2	3860563.3	673.2	5.00	4.19	
4.65	NO		NO					
L0000042	0	0.10194E-02	489247.2	3860554.3	673.1	5.00	4.19	
4.65	NO		NO					
L0000043	0	0.10194E-02	489247.1	3860545.3	673.3	5.00	4.19	
4.65	NO		NO					
L0000044	0	0.10194E-02	489247.1	3860536.3	673.4	5.00	4.19	
4.65	NO		NO					
L0000045	0	0.10194E-02	489247.0	3860527.3	673.5	5.00	4.19	
4.65	NO		NO					
L0000046	0	0.10194E-02	489247.0	3860518.3	673.5	5.00	4.19	
4.65	NO		NO					
L0000047	0	0.10194E-02	489247.0	3860509.3	673.6	5.00	4.19	
4.65	NO		NO					
L0000048	0	0.10194E-02	489246.9	3860500.3	673.6	5.00	4.19	
4.65	NO		NO					
L0000049	0	0.10194E-02	489246.9	3860491.3	673.7	5.00	4.19	
4.65	NO		NO					
L0000050	0	0.10194E-02	489246.8	3860482.3	673.7	5.00	4.19	
4.65	NO		NO					
L0000051	0	0.10194E-02	489246.8	3860473.3	673.8	5.00	4.19	
4.65	NO		NO					
L0000052	0	0.10194E-02	489246.8	3860464.3	673.9	5.00	4.19	
4.65	NO		NO					
L0000053	0	0.10194E-02	489246.7	3860455.3	674.0	5.00	4.19	
4.65	NO		NO					
L0000054	0	0.10194E-02	489246.7	3860446.3	674.2	5.00	4.19	
4.65	NO		NO					
L0000055	0	0.10194E-02	489246.6	3860437.3	674.3	5.00	4.19	
4.65	NO		NO					
L0000056	0	0.10194E-02	489246.6	3860428.3	674.4	5.00	4.19	
4.65	NO		NO					
L0000057	0	0.10194E-02	489246.5	3860419.3	674.6	5.00	4.19	
4.65	NO		NO					
L0000058	0	0.10194E-02	489246.5	3860410.3	674.7	5.00	4.19	
4.65	NO		NO					
L0000059	0	0.10194E-02	489246.5	3860401.3	674.9	5.00	4.19	
4.65	NO		NO					
L0000060	0	0.10194E-02	489246.4	3860392.3	675.0	5.00	4.19	
4.65	NO		NO					
L0000061	0	0.10194E-02	489246.4	3860383.3	675.1	5.00	4.19	
4.65	NO		NO					
L0000062	0	0.10194E-02	489246.3	3860374.3	675.2	5.00	4.19	
4.65	NO		NO					
L0000063	0	0.10194E-02	489246.3	3860365.3	675.3	5.00	4.19	
4.65	NO		NO					
L0000064	0	0.10194E-02	489246.2	3860356.3	675.5	5.00	4.19	
4.65	NO		NO					
L0000065	0	0.10194E-02	489246.2	3860347.3	675.7	5.00	4.19	
4.65	NO		NO					

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
- - -

L0000081	0	0.10194E-02	489245.5	3860203.3	676.7	5.00	4.19	
4.65	NO	NO						
L0000082	0	0.10194E-02	489245.5	3860194.3	676.8	5.00	4.19	
4.65	NO	NO						
L0000083	0	0.10194E-02	489245.4	3860185.3	676.8	5.00	4.19	
4.65	NO	NO						
L0000084	0	0.10194E-02	489245.4	3860176.3	677.0	5.00	4.19	
4.65	NO	NO						
L0000085	0	0.10194E-02	489245.4	3860167.3	677.2	5.00	4.19	
4.65	NO	NO						
L0000086	0	0.10194E-02	489245.3	3860158.3	677.3	5.00	4.19	
4.65	NO	NO						
L0000087	0	0.10194E-02	489245.3	3860149.3	677.7	5.00	4.19	
4.65	NO	NO						
L0000088	0	0.10194E-02	489245.2	3860140.3	678.0	5.00	4.19	
4.65	NO	NO						
L0000089	0	0.10194E-02	489245.2	3860131.3	678.4	5.00	4.19	
4.65	NO	NO						
L0000090	0	0.10194E-02	489245.1	3860122.3	678.7	5.00	4.19	
4.65	NO	NO						
L0000091	0	0.10194E-02	489245.1	3860113.3	678.8	5.00	4.19	
4.65	NO	NO						
L0000092	0	0.10194E-02	489245.1	3860104.3	679.0	5.00	4.19	
4.65	NO	NO						
L0000093	0	0.10194E-02	489245.0	3860095.3	679.1	5.00	4.19	
4.65	NO	NO						
L0000094	0	0.10194E-02	489245.0	3860086.3	679.1	5.00	4.19	
4.65	NO	NO						
L0000095	0	0.10194E-02	489244.9	3860077.3	679.0	5.00	4.19	
4.65	NO	NO						
L0000096	0	0.10194E-02	489244.9	3860068.3	679.0	5.00	4.19	
4.65	NO	NO						
L0000097	0	0.10194E-02	489244.8	3860059.3	679.0	5.00	4.19	
4.65	NO	NO						
L0000098	0	0.10194E-02	489244.8	3860050.3	679.0	5.00	4.19	
4.65	NO	NO						
L0000099	0	0.10194E-02	489244.8	3860041.3	679.1	5.00	4.19	
4.65	NO	NO						
L0000100	0	0.10194E-02	489244.7	3860032.3	679.2	5.00	4.19	
4.65	NO	NO						
L0000101	0	0.10194E-02	489244.7	3860023.3	679.4	5.00	4.19	
4.65	NO	NO						
L0000102	0	0.10194E-02	489244.6	3860014.3	679.7	5.00	4.19	
4.65	NO	NO						
L0000103	0	0.10194E-02	489244.6	3860005.3	680.0	5.00	4.19	
4.65	NO	NO						
L0000104	0	0.10194E-02	489247.3	3859999.0	680.2	5.00	4.19	
4.65	NO	NO						
L0000105	0	0.10194E-02	489256.3	3859998.9	680.5	5.00	4.19	
4.65	NO	NO						

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0000106	0	0.10194E-02	489265.3	3859998.8	680.9	5.00	4.19	4.65	NO	NO	
L0000107	0	0.10194E-02	489274.3	3859998.6	681.3	5.00	4.19	4.65	NO	NO	
L0000108	0	0.10194E-02	489283.3	3859998.5	681.7	5.00	4.19	4.65	NO	NO	
L0000109	0	0.10194E-02	489292.3	3859998.4	682.1	5.00	4.19	4.65	NO	NO	
L0000110	0	0.10194E-02	489301.3	3859998.3	682.4	5.00	4.19	4.65	NO	NO	
L0000111	0	0.10194E-02	489310.3	3859998.2	682.7	5.00	4.19	4.65	NO	NO	
L0000112	0	0.10194E-02	489319.3	3859998.1	682.9	5.00	4.19	4.65	NO	NO	
L0000113	0	0.10194E-02	489328.3	3859998.0	683.0	5.00	4.19	4.65	NO	NO	
L0000114	0	0.10194E-02	489337.3	3859997.9	683.1	5.00	4.19	4.65	NO	NO	
L0000115	0	0.10194E-02	489346.3	3859997.7	683.1	5.00	4.19	4.65	NO	NO	
L0000116	0	0.10194E-02	489355.3	3859997.6	683.3	5.00	4.19	4.65	NO	NO	
L0000117	0	0.10194E-02	489364.3	3859997.5	683.5	5.00	4.19	4.65	NO	NO	
L0000118	0	0.10194E-02	489373.3	3859997.4	683.7	5.00	4.19	4.65	NO	NO	
L0000119	0	0.10194E-02	489382.3	3859997.3	683.9	5.00	4.19	4.65	NO	NO	
L0000120	0	0.10194E-02	489391.3	3859997.2	684.3	5.00	4.19	4.65	NO	NO	

L0000121	0	0.10194E-02	489400.3	3859997.1	684.6	5.00	4.19	
4.65	NO		NO					
L0000122	0	0.10194E-02	489409.3	3859996.9	685.3	5.00	4.19	
4.65	NO		NO					
L0000123	0	0.10194E-02	489418.3	3859996.8	686.0	5.00	4.19	
4.65	NO		NO					
L0000124	0	0.10194E-02	489427.3	3859996.7	686.8	5.00	4.19	
4.65	NO		NO					
L0000125	0	0.10194E-02	489436.3	3859996.6	687.1	5.00	4.19	
4.65	NO		NO					
L0000126	0	0.10194E-02	489445.3	3859996.5	687.4	5.00	4.19	
4.65	NO		NO					
L0000127	0	0.10194E-02	489454.3	3859996.4	687.7	5.00	4.19	
4.65	NO		NO					
L0000128	0	0.10194E-02	489463.3	3859996.3	688.0	5.00	4.19	
4.65	NO		NO					
L0000129	0	0.10194E-02	489472.3	3859996.1	688.2	5.00	4.19	
4.65	NO		NO					
L0000130	0	0.10194E-02	489481.3	3859996.0	688.5	5.00	4.19	
4.65	NO		NO					
L0000131	0	0.10194E-02	489490.3	3859995.9	688.9	5.00	4.19	
4.65	NO		NO					
L0000132	0	0.10194E-02	489499.3	3859995.8	689.4	5.00	4.19	
4.65	NO		NO					
L0000133	0	0.10194E-02	489508.3	3859995.7	689.8	5.00	4.19	
4.65	NO		NO					
L0000134	0	0.10194E-02	489517.3	3859995.6	690.2	5.00	4.19	
4.65	NO		NO					
L0000135	0	0.10194E-02	489526.3	3859995.5	690.5	5.00	4.19	
4.65	NO		NO					
L0000136	0	0.10194E-02	489535.3	3859995.3	690.5	5.00	4.19	
4.65	NO		NO					
L0000137	0	0.10194E-02	489544.3	3859995.2	690.4	5.00	4.19	
4.65	NO		NO					
L0000138	0	0.10194E-02	489553.3	3859995.1	690.3	5.00	4.19	
4.65	NO		NO					
L0000139	0	0.10194E-02	489562.3	3859995.0	690.3	5.00	4.19	
4.65	NO		NO					
L0000140	0	0.10194E-02	489571.3	3859994.9	690.4	5.00	4.19	
4.65	NO		NO					
L0000141	0	0.10194E-02	489580.3	3859994.8	690.4	5.00	4.19	
4.65	NO		NO					
L0000142	0	0.10194E-02	489589.3	3859994.7	690.9	5.00	4.19	
4.65	NO		NO					
L0000143	0	0.10194E-02	489589.6	3860003.1	690.9	5.00	4.19	
4.65	NO		NO					
L0000144	0	0.10194E-02	489589.4	3860012.1	690.8	5.00	4.19	
4.65	NO		NO					
L0000145	0	0.10194E-02	489589.2	3860021.1	690.6	5.00	4.19	
4.65	NO		NO					

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0000161         0   0.10194E-02  489585.8 3860165.0   691.5     5.00     4.19
4.65     NO                    NO
 L0000162         0   0.10194E-02  489585.6 3860174.0   689.3     5.00     4.19
4.65     NO                    NO
 L0000163         0   0.10194E-02  489585.4 3860183.0   687.2     5.00     4.19
4.65     NO                    NO
 L0000164         0   0.10194E-02  489585.2 3860192.0   685.5     5.00     4.19
4.65     NO                    NO
 L0000165         0   0.10194E-02  489585.0 3860201.0   684.4     5.00     4.19
4.65     NO                    NO
 L0000166         0   0.10194E-02  489584.7 3860210.0   683.3     5.00     4.19
4.65     NO                    NO
 L0000167         0   0.10194E-02  489584.5 3860219.0   682.2     5.00     4.19
4.65     NO                    NO
 L0000168         0   0.10194E-02  489584.3 3860228.0   682.0     5.00     4.19
4.65     NO                    NO
 L0000169         0   0.10194E-02  489584.1 3860237.0   681.7     5.00     4.19
4.65     NO                    NO
 L0000170         0   0.10194E-02  489583.9 3860246.0   681.5     5.00     4.19
4.65     NO                    NO
 L0000171         0   0.10194E-02  489583.7 3860255.0   680.9     5.00     4.19
4.65     NO                    NO
 L0000172         0   0.10194E-02  489583.5 3860264.0   680.1     5.00     4.19
4.65     NO                    NO
 L0000173         0   0.10194E-02  489583.2 3860273.0   679.4     5.00     4.19
4.65     NO                    NO
 L0000174         0   0.10194E-02  489583.0 3860282.0   678.7     5.00     4.19
4.65     NO                    NO
 L0000175         0   0.10194E-02  489582.8 3860291.0   678.2     5.00     4.19
4.65     NO                    NO
 L0000176         0   0.10194E-02  489582.6 3860300.0   677.7     5.00     4.19
4.65     NO                    NO
 L0000177         0   0.10194E-02  489582.4 3860309.0   677.2     5.00     4.19
4.65     NO                    NO
 L0000178         0   0.10194E-02  489582.2 3860318.0   676.8     5.00     4.19
4.65     NO                    NO
 L0000179         0   0.10194E-02  489582.0 3860327.0   676.4     5.00     4.19
4.65     NO                    NO
 L0000180         0   0.10194E-02  489581.8 3860336.0   676.0     5.00     4.19
4.65     NO                    NO
 L0000181         0   0.10194E-02  489581.5 3860345.0   675.7     5.00     4.19
4.65     NO                    NO
 L0000182         0   0.10194E-02  489581.3 3860354.0   675.5     5.00     4.19
4.65     NO                    NO
 L0000183         0   0.10194E-02  489581.1 3860363.0   675.3     5.00     4.19
4.65     NO                    NO
 L0000184         0   0.10194E-02  489580.9 3860372.0   675.1     5.00     4.19
4.65     NO                    NO
 L0000185         0   0.10194E-02  489580.7 3860381.0   675.0     5.00     4.19
4.65     NO                    NO
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 L0000186   0   0.10194E-02 489580.5 3860390.0   674.9   5.00   4.19
4.65   NO   NO
 L0000187   0   0.10194E-02 489580.3 3860399.0   674.9   5.00   4.19
4.65   NO   NO
 L0000188   0   0.10194E-02 489580.0 3860408.0   674.8   5.00   4.19
4.65   NO   NO
 L0000189   0   0.10194E-02 489579.8 3860417.0   674.7   5.00   4.19
4.65   NO   NO
 L0000190   0   0.10194E-02 489579.6 3860426.0   674.6   5.00   4.19
4.65   NO   NO
 L0000191   0   0.10194E-02 489579.4 3860435.0   674.5   5.00   4.19
4.65   NO   NO
 L0000192   0   0.10194E-02 489579.2 3860443.9   674.8   5.00   4.19
4.65   NO   NO
 L0000193   0   0.10194E-02 489579.0 3860452.9   675.0   5.00   4.19
4.65   NO   NO
 L0000194   0   0.10194E-02 489578.8 3860461.9   675.3   5.00   4.19
4.65   NO   NO
 L0000195   0   0.10194E-02 489578.6 3860470.9   676.1   5.00   4.19
4.65   NO   NO
 L0000196   0   0.10194E-02 489578.3 3860479.9   677.2   5.00   4.19
4.65   NO   NO
 L0000197   0   0.10194E-02 489578.1 3860488.9   678.3   5.00   4.19
4.65   NO   NO
 L0000198   0   0.10194E-02 489577.9 3860497.9   679.2   5.00   4.19
4.65   NO   NO
 L0000199   0   0.10194E-02 489577.7 3860506.9   678.7   5.00   4.19
4.65   NO   NO
 L0000200   0   0.10194E-02 489577.5 3860515.9   678.3   5.00   4.19
4.65   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- -

L0000201	0	0.10194E-02	489577.3	3860524.9	677.8	5.00	4.19	
4.65	NO		NO					
L0000202	0	0.10194E-02	489577.1	3860533.9	677.4	5.00	4.19	
4.65	NO		NO					
L0000203	0	0.10194E-02	489576.9	3860542.9	676.9	5.00	4.19	
4.65	NO		NO					
L0000204	0	0.10194E-02	489576.6	3860551.9	676.5	5.00	4.19	
4.65	NO		NO					
L0000205	0	0.10194E-02	489576.4	3860560.9	676.2	5.00	4.19	
4.65	NO		NO					
L0000206	0	0.10194E-02	489576.2	3860569.9	676.2	5.00	4.19	
4.65	NO		NO					
L0000207	0	0.10194E-02	489576.0	3860578.9	676.2	5.00	4.19	
4.65	NO		NO					
L0000208	0	0.10194E-02	489575.8	3860587.9	676.2	5.00	4.19	
4.65	NO		NO					
L0000209	0	0.10194E-02	489575.6	3860596.9	676.8	5.00	4.19	
4.65	NO		NO					
L0000210	0	0.10194E-02	489575.4	3860605.9	677.4	5.00	4.19	
4.65	NO		NO					
L0000211	0	0.10194E-02	489575.1	3860614.9	678.0	5.00	4.19	
4.65	NO		NO					
L0000212	0	0.10194E-02	489574.9	3860623.9	678.4	5.00	4.19	
4.65	NO		NO					
L0000213	0	0.10194E-02	489574.7	3860632.9	678.8	5.00	4.19	
4.65	NO		NO					
L0000214	0	0.10194E-02	489574.5	3860641.9	679.1	5.00	4.19	
4.65	NO		NO					
L0000215	0	0.10194E-02	489574.3	3860650.9	679.4	5.00	4.19	
4.65	NO		NO					
L0000216	0	0.10194E-02	489574.1	3860659.9	679.6	5.00	4.19	
4.65	NO		NO					
L0000217	0	0.10194E-02	489573.9	3860668.9	679.8	5.00	4.19	
4.65	NO		NO					
L0000218	0	0.10194E-02	489573.7	3860677.9	680.0	5.00	4.19	
4.65	NO		NO					
L0000219	0	0.10194E-02	489573.4	3860686.9	679.9	5.00	4.19	
4.65	NO		NO					
L0000220	0	0.10194E-02	489573.2	3860695.9	679.7	5.00	4.19	
4.65	NO		NO					
L0000221	0	0.10194E-02	489573.0	3860704.9	679.4	5.00	4.19	
4.65	NO		NO					
L0000222	0	0.10194E-02	489572.8	3860713.9	679.2	5.00	4.19	
4.65	NO		NO					
L0000223	0	0.10194E-02	489572.6	3860722.9	679.1	5.00	4.19	
4.65	NO		NO					
L0000224	0	0.10194E-02	489572.4	3860731.9	678.9	5.00	4.19	
4.65	NO		NO					
L0000225	0	0.10194E-02	489572.2	3860740.9	678.8	5.00	4.19	
4.65	NO		NO					

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0000226	0	0.10194E-02	489571.9	3860749.9	678.5	5.00	4.19	4.65	NO	NO	
L0000227	0	0.10194E-02	489571.7	3860758.9	678.1	5.00	4.19	4.65	NO	NO	
L0000228	0	0.10194E-02	489571.5	3860767.9	677.8	5.00	4.19	4.65	NO	NO	
L0000229	0	0.10194E-02	489571.3	3860776.9	677.3	5.00	4.19	4.65	NO	NO	
L0000230	0	0.10194E-02	489571.1	3860785.9	676.5	5.00	4.19	4.65	NO	NO	
L0000231	0	0.10194E-02	489570.9	3860794.9	675.7	5.00	4.19	4.65	NO	NO	
L0000232	0	0.10194E-02	489570.7	3860803.8	674.9	5.00	4.19	4.65	NO	NO	
L0000233	0	0.10194E-02	489570.5	3860812.8	674.4	5.00	4.19	4.65	NO	NO	
L0000234	0	0.10194E-02	489570.2	3860821.8	674.0	5.00	4.19	4.65	NO	NO	
L0000235	0	0.10194E-02	489570.0	3860830.8	673.5	5.00	4.19	4.65	NO	NO	
L0000236	0	0.10194E-02	489569.8	3860839.8	673.0	5.00	4.19	4.65	NO	NO	
L0000237	0	0.10194E-02	489569.6	3860848.8	672.5	5.00	4.19	4.65	NO	NO	
L0000238	0	0.10194E-02	489569.4	3860857.8	672.0	5.00	4.19	4.65	NO	NO	
L0000239	0	0.10194E-02	489569.2	3860866.8	671.5	5.00	4.19	4.65	NO	NO	
L0000240	0	0.10194E-02	489569.0	3860875.8	670.8	5.00	4.19	4.65	NO	NO	

L0000241	0	0.10194E-02	489568.8	3860884.8	670.2	5.00	4.19	
4.65	NO	NO						
L0000242	0	0.10194E-02	489568.5	3860893.8	669.5	5.00	4.19	
4.65	NO	NO						
L0000243	0	0.10194E-02	489568.3	3860902.8	669.2	5.00	4.19	
4.65	NO	NO						
L0000244	0	0.10194E-02	489568.1	3860911.8	669.0	5.00	4.19	
4.65	NO	NO						
L0000245	0	0.10194E-02	489564.0	3860916.8	668.9	5.00	4.19	
4.65	NO	NO						
L0000246	0	0.10194E-02	489555.0	3860916.8	669.1	5.00	4.19	
4.65	NO	NO						
L0000247	0	0.10194E-02	489546.0	3860916.7	669.1	5.00	4.19	
4.65	NO	NO						
L0000248	0	0.10194E-02	489537.0	3860916.6	669.2	5.00	4.19	
4.65	NO	NO						
L0000249	0	0.10194E-02	489528.0	3860916.6	669.2	5.00	4.19	
4.65	NO	NO						
L0000250	0	0.10194E-02	489519.0	3860916.5	669.3	5.00	4.19	
4.65	NO	NO						
L0000251	0	0.10194E-02	489510.0	3860916.4	669.4	5.00	4.19	
4.65	NO	NO						
L0000252	0	0.10194E-02	489501.0	3860916.4	669.5	5.00	4.19	
4.65	NO	NO						
L0000253	0	0.10194E-02	489492.0	3860916.3	669.6	5.00	4.19	
4.65	NO	NO						
L0000254	0	0.10194E-02	489483.0	3860916.2	669.8	5.00	4.19	
4.65	NO	NO						
L0000255	0	0.10194E-02	489474.0	3860916.1	669.9	5.00	4.19	
4.65	NO	NO						
L0000256	0	0.10194E-02	489465.0	3860916.1	670.0	5.00	4.19	
4.65	NO	NO						
L0000257	0	0.10194E-02	489456.0	3860916.0	670.1	5.00	4.19	
4.65	NO	NO						
L0000258	0	0.10194E-02	489447.0	3860915.9	670.2	5.00	4.19	
4.65	NO	NO						
L0000259	0	0.10194E-02	489438.0	3860915.9	670.3	5.00	4.19	
4.65	NO	NO						
L0000260	0	0.10194E-02	489429.0	3860915.8	670.5	5.00	4.19	
4.65	NO	NO						
L0000261	0	0.10194E-02	489420.0	3860915.7	670.8	5.00	4.19	
4.65	NO	NO						
L0000262	0	0.10194E-02	489411.0	3860915.7	671.2	5.00	4.19	
4.65	NO	NO						
L0000263	0	0.10194E-02	489402.0	3860915.6	671.5	5.00	4.19	
4.65	NO	NO						
L0000264	0	0.10194E-02	489393.0	3860915.5	671.6	5.00	4.19	
4.65	NO	NO						
L0000265	0	0.10194E-02	489384.0	3860915.5	671.7	5.00	4.19	
4.65	NO	NO						

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT EMISSION RATE SCALAR VARY BY
L0000266	0	0.10194E-02	489375.0	3860915.4	671.7	5.00	4.19	4.65	NO	NO
L0000267	0	0.10194E-02	489366.0	3860915.3	671.6	5.00	4.19	4.65	NO	NO
L0000268	0	0.10194E-02	489357.0	3860915.3	671.5	5.00	4.19	4.65	NO	NO
L0000269	0	0.10194E-02	489348.0	3860915.2	671.3	5.00	4.19	4.65	NO	NO
L0000270	0	0.10194E-02	489339.0	3860915.1	671.1	5.00	4.19	4.65	NO	NO
L0000271	0	0.10194E-02	489330.0	3860915.1	670.9	5.00	4.19	4.65	NO	NO
L0000272	0	0.10194E-02	489321.0	3860915.0	670.8	5.00	4.19	4.65	NO	NO
L0000273	0	0.10194E-02	489312.0	3860914.9	670.7	5.00	4.19	4.65	NO	NO
L0000274	0	0.10194E-02	489303.0	3860914.9	670.5	5.00	4.19	4.65	NO	NO
L0000275	0	0.10194E-02	489294.0	3860914.8	670.2	5.00	4.19	4.65	NO	NO
L0000276	0	0.10194E-02	489285.0	3860914.7	669.9	5.00	4.19	4.65	NO	NO
L0000277	0	0.10194E-02	489279.5	3860911.2	669.7	5.00	4.19	4.65	NO	NO
L0000278	0	0.10194E-02	489279.4	3860902.2	670.0	5.00	4.19	4.65	NO	NO
L0000279	0	0.10194E-02	489279.3	3860893.2	670.3	5.00	4.19	4.65	NO	NO
L0000280	0	0.10194E-02	489279.2	3860884.2	670.6	5.00	4.19	4.65	NO	NO

L0000281	0	0.10194E-02	489279.1	3860875.2	670.9	5.00	4.19	
4.65	NO	NO						
L0000282	0	0.10194E-02	489279.1	3860866.2	671.3	5.00	4.19	
4.65	NO	NO						
L0000283	0	0.10194E-02	489279.0	3860857.2	671.5	5.00	4.19	
4.65	NO	NO						
L0000284	0	0.10194E-02	489278.9	3860848.2	671.8	5.00	4.19	
4.65	NO	NO						
L0000285	0	0.10194E-02	489278.8	3860839.2	672.0	5.00	4.19	
4.65	NO	NO						
L0000286	0	0.10194E-02	489278.7	3860830.2	672.4	5.00	4.19	
4.65	NO	NO						
L0000287	0	0.10194E-02	489278.6	3860821.2	672.8	5.00	4.19	
4.65	NO	NO						
L0000288	0	0.10194E-02	489278.5	3860812.2	673.3	5.00	4.19	
4.65	NO	NO						
L0000289	0	0.10194E-02	489278.4	3860803.2	673.7	5.00	4.19	
4.65	NO	NO						
L0000290	0	0.10194E-02	489278.3	3860794.2	673.7	5.00	4.19	
4.65	NO	NO						
L0000291	0	0.10194E-02	489278.3	3860785.2	673.7	5.00	4.19	
4.65	NO	NO						
L0000292	0	0.10194E-02	489278.2	3860776.2	673.7	5.00	4.19	
4.65	NO	NO						
L0000293	0	0.10194E-02	489278.1	3860767.2	673.5	5.00	4.19	
4.65	NO	NO						
L0000294	0	0.10194E-02	489278.0	3860758.2	673.1	5.00	4.19	
4.65	NO	NO						
L0000295	0	0.10194E-02	489277.9	3860749.2	672.8	5.00	4.19	
4.65	NO	NO						
L0000296	0	0.10194E-02	489277.8	3860740.2	672.6	5.00	4.19	
4.65	NO	NO						
L0000297	0	0.10194E-02	489277.7	3860731.2	672.5	5.00	4.19	
4.65	NO	NO						
L0000298	0	0.10194E-02	489277.6	3860722.2	672.4	5.00	4.19	
4.65	NO	NO						
L0000299	0	0.10194E-02	489277.5	3860713.2	672.4	5.00	4.19	
4.65	NO	NO						
L0000300	0	0.10194E-02	489277.5	3860704.2	672.6	5.00	4.19	
4.65	NO	NO						
L0000301	0	0.10194E-02	489277.4	3860695.2	672.8	5.00	4.19	
4.65	NO	NO						
L0000302	0	0.10194E-02	489277.3	3860686.2	673.0	5.00	4.19	
4.65	NO	NO						
L0000303	0	0.10194E-02	489277.2	3860677.2	673.1	5.00	4.19	
4.65	NO	NO						
L0000304	0	0.10194E-02	489277.1	3860668.2	672.9	5.00	4.19	
4.65	NO	NO						
L0000305	0	0.10194E-02	489277.0	3860659.2	672.8	5.00	4.19	
4.65	NO	NO						

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 L0000306         0   0.10194E-02  489276.9 3860650.2   672.6     5.00     4.19
4.65     NO                    NO
 L0000307         0   0.10194E-02  489276.8 3860641.2   672.6     5.00     4.19
4.65     NO                    NO
 L0000308         0   0.10194E-02  489276.7 3860632.2   672.6     5.00     4.19
4.65     NO                    NO
 L0000309         0   0.10194E-02  489276.7 3860623.2   672.6     5.00     4.19
4.65     NO                    NO
 L0000310         0   0.10194E-02  489276.6 3860614.2   672.6     5.00     4.19
4.65     NO                    NO
 L0000311         0   0.10194E-02  489276.5 3860605.2   672.8     5.00     4.19
4.65     NO                    NO
 L0000312         0   0.10194E-02  489276.4 3860596.2   672.9     5.00     4.19
4.65     NO                    NO
 L0000313         0   0.10194E-02  489276.3 3860587.2   673.0     5.00     4.19
4.65     NO                    NO
 L0000314         0   0.10194E-02  489276.2 3860578.2   673.1     5.00     4.19
4.65     NO                    NO
 L0000315         0   0.10194E-02  489276.1 3860569.2   673.2     5.00     4.19
4.65     NO                    NO
 L0000316         0   0.10194E-02  489276.0 3860560.2   673.2     5.00     4.19
4.65     NO                    NO
 L0000317         0   0.10194E-02  489275.9 3860551.2   673.3     5.00     4.19
4.65     NO                    NO
 L0000318         0   0.10194E-02  489275.9 3860542.2   673.4     5.00     4.19
4.65     NO                    NO
 L0000319         0   0.10194E-02  489275.8 3860533.2   673.5     5.00     4.19
4.65     NO                    NO
 L0000320         0   0.10194E-02  489275.7 3860524.2   673.6     5.00     4.19
4.65     NO                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                  PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
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L0000321	0	0.10194E-02	489275.6	3860515.2	673.5	5.00	4.19	
4.65	NO	NO						
L0000322	0	0.10194E-02	489275.5	3860506.2	673.5	5.00	4.19	
4.65	NO	NO						
L0000323	0	0.10194E-02	489275.4	3860497.2	673.5	5.00	4.19	
4.65	NO	NO						
L0000324	0	0.10194E-02	489275.3	3860488.2	673.6	5.00	4.19	
4.65	NO	NO						
L0000325	0	0.10194E-02	489275.2	3860479.2	673.6	5.00	4.19	
4.65	NO	NO						
L0000326	0	0.10194E-02	489275.1	3860470.2	673.7	5.00	4.19	
4.65	NO	NO						
L0000327	0	0.10194E-02	489275.1	3860461.2	673.8	5.00	4.19	
4.65	NO	NO						
L0000328	0	0.10194E-02	489275.0	3860452.2	673.9	5.00	4.19	
4.65	NO	NO						
L0000329	0	0.10194E-02	489274.9	3860443.2	674.1	5.00	4.19	
4.65	NO	NO						
L0000330	0	0.10194E-02	489274.8	3860434.2	674.2	5.00	4.19	
4.65	NO	NO						
L0000331	0	0.10194E-02	489274.7	3860425.2	674.3	5.00	4.19	
4.65	NO	NO						
L0000332	0	0.10194E-02	489274.6	3860416.2	674.5	5.00	4.19	
4.65	NO	NO						
L0000333	0	0.10194E-02	489274.5	3860407.2	674.6	5.00	4.19	
4.65	NO	NO						
L0000334	0	0.10194E-02	489274.4	3860398.2	674.8	5.00	4.19	
4.65	NO	NO						
L0000335	0	0.10194E-02	489274.4	3860389.2	674.9	5.00	4.19	
4.65	NO	NO						
L0000336	0	0.10194E-02	489274.3	3860380.2	675.1	5.00	4.19	
4.65	NO	NO						
L0000337	0	0.10194E-02	489274.2	3860371.2	675.2	5.00	4.19	
4.65	NO	NO						
L0000338	0	0.10194E-02	489274.1	3860362.2	675.3	5.00	4.19	
4.65	NO	NO						
L0000339	0	0.10194E-02	489274.0	3860353.2	675.4	5.00	4.19	
4.65	NO	NO						
L0000340	0	0.10194E-02	489273.9	3860344.2	675.6	5.00	4.19	
4.65	NO	NO						
L0000341	0	0.10194E-02	489273.8	3860335.2	675.6	5.00	4.19	
4.65	NO	NO						
L0000342	0	0.10194E-02	489273.7	3860326.2	675.7	5.00	4.19	
4.65	NO	NO						
L0000343	0	0.10194E-02	489273.6	3860317.2	675.8	5.00	4.19	
4.65	NO	NO						
L0000344	0	0.10194E-02	489273.6	3860308.2	675.9	5.00	4.19	
4.65	NO	NO						
L0000345	0	0.10194E-02	489273.5	3860299.2	676.0	5.00	4.19	
4.65	NO	NO						

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 L0000346         0   0.10194E-02  489273.4 3860290.2   676.1     5.00     4.19
4.65     NO                    NO
 L0000347         0   0.10194E-02  489273.3 3860281.2   676.2     5.00     4.19
4.65     NO                    NO
 L0000348         0   0.10194E-02  489273.2 3860272.2   676.2     5.00     4.19
4.65     NO                    NO
 L0000349         0   0.10194E-02  489273.1 3860263.2   676.2     5.00     4.19
4.65     NO                    NO
 L0000350         0   0.10194E-02  489273.0 3860254.2   676.2     5.00     4.19
4.65     NO                    NO
 L0000351         0   0.10194E-02  489272.9 3860245.2   676.3     5.00     4.19
4.65     NO                    NO
 L0000352         0   0.10194E-02  489272.8 3860236.2   676.4     5.00     4.19
4.65     NO                    NO
 L0000353         0   0.10194E-02  489272.8 3860227.2   676.5     5.00     4.19
4.65     NO                    NO
 L0000354         0   0.10194E-02  489272.7 3860218.2   676.5     5.00     4.19
4.65     NO                    NO
 L0000355         0   0.10194E-02  489272.6 3860209.2   676.6     5.00     4.19
4.65     NO                    NO
 L0000356         0   0.10194E-02  489272.5 3860200.2   676.7     5.00     4.19
4.65     NO                    NO
 L0000357         0   0.10194E-02  489272.4 3860191.2   676.8     5.00     4.19
4.65     NO                    NO
 L0000358         0   0.10194E-02  489272.3 3860182.2   677.0     5.00     4.19
4.65     NO                    NO
 L0000359         0   0.10194E-02  489272.2 3860173.2   677.2     5.00     4.19
4.65     NO                    NO
 L0000360         0   0.10194E-02  489272.1 3860164.2   677.4     5.00     4.19
4.65     NO                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
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L0000361	0	0.10194E-02	489272.0	3860155.2	677.8	5.00	4.19	
4.65	NO	NO						
L0000362	0	0.10194E-02	489272.0	3860146.2	678.4	5.00	4.19	
4.65	NO	NO						
L0000363	0	0.10194E-02	489271.9	3860137.2	679.0	5.00	4.19	
4.65	NO	NO						
L0000364	0	0.10194E-02	489271.8	3860128.2	679.5	5.00	4.19	
4.65	NO	NO						
L0000365	0	0.10194E-02	489271.7	3860119.2	679.8	5.00	4.19	
4.65	NO	NO						
L0000366	0	0.10194E-02	489271.6	3860110.2	680.1	5.00	4.19	
4.65	NO	NO						
L0000367	0	0.10194E-02	489271.5	3860101.2	680.3	5.00	4.19	
4.65	NO	NO						
L0000368	0	0.10194E-02	489271.4	3860092.2	680.4	5.00	4.19	
4.65	NO	NO						
L0000369	0	0.10194E-02	489271.3	3860083.2	680.2	5.00	4.19	
4.65	NO	NO						
L0000370	0	0.10194E-02	489271.2	3860074.2	680.0	5.00	4.19	
4.65	NO	NO						
L0000371	0	0.10194E-02	489271.2	3860065.2	679.8	5.00	4.19	
4.65	NO	NO						
L0000372	0	0.10194E-02	489271.1	3860056.2	679.9	5.00	4.19	
4.65	NO	NO						
L0000373	0	0.10194E-02	489271.0	3860047.2	680.0	5.00	4.19	
4.65	NO	NO						
L0000374	0	0.10194E-02	489270.9	3860038.2	680.1	5.00	4.19	
4.65	NO	NO						
L0000375	0	0.10194E-02	489270.8	3860029.2	680.3	5.00	4.19	
4.65	NO	NO						
L0000376	0	0.10194E-02	489278.0	3860027.4	680.7	5.00	4.19	
4.65	NO	NO						
L0000377	0	0.10194E-02	489287.0	3860027.4	681.1	5.00	4.19	
4.65	NO	NO						
L0000378	0	0.10194E-02	489296.0	3860027.4	681.4	5.00	4.19	
4.65	NO	NO						
L0000379	0	0.10194E-02	489305.0	3860027.4	681.8	5.00	4.19	
4.65	NO	NO						
L0000380	0	0.10194E-02	489314.0	3860027.4	682.2	5.00	4.19	
4.65	NO	NO						
L0000381	0	0.10194E-02	489323.0	3860027.4	682.6	5.00	4.19	
4.65	NO	NO						
L0000382	0	0.10194E-02	489332.0	3860027.4	682.7	5.00	4.19	
4.65	NO	NO						
L0000383	0	0.10194E-02	489341.0	3860027.4	682.8	5.00	4.19	
4.65	NO	NO						
L0000384	0	0.10194E-02	489350.0	3860027.4	682.8	5.00	4.19	
4.65	NO	NO						
L0000385	0	0.10194E-02	489359.0	3860027.4	683.2	5.00	4.19	
4.65	NO	NO						

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 L0000386         0   0.10194E-02  489368.0 3860027.4   683.5     5.00     4.19
4.65     NO                    NO
 L0000387         0   0.10194E-02  489377.0 3860027.4   683.9     5.00     4.19
4.65     NO                    NO
 L0000388         0   0.10194E-02  489386.0 3860027.4   684.4     5.00     4.19
4.65     NO                    NO
 L0000389         0   0.10194E-02  489395.0 3860027.4   684.9     5.00     4.19
4.65     NO                    NO
 L0000390         0   0.10194E-02  489404.0 3860027.4   685.3     5.00     4.19
4.65     NO                    NO
 L0000391         0   0.10194E-02  489413.0 3860027.4   685.8     5.00     4.19
4.65     NO                    NO
 L0000392         0   0.10194E-02  489422.0 3860027.4   686.3     5.00     4.19
4.65     NO                    NO
 L0000393         0   0.10194E-02  489431.0 3860027.4   686.6     5.00     4.19
4.65     NO                    NO
 L0000394         0   0.10194E-02  489440.0 3860027.4   686.7     5.00     4.19
4.65     NO                    NO
 L0000395         0   0.10194E-02  489449.0 3860027.4   686.8     5.00     4.19
4.65     NO                    NO
 L0000396         0   0.10194E-02  489458.0 3860027.4   687.0     5.00     4.19
4.65     NO                    NO
 L0000397         0   0.10194E-02  489467.0 3860027.4   687.2     5.00     4.19
4.65     NO                    NO
 L0000398         0   0.10194E-02  489476.0 3860027.4   687.5     5.00     4.19
4.65     NO                    NO
 L0000399         0   0.10194E-02  489485.0 3860027.4   687.7     5.00     4.19
4.65     NO                    NO
 L0000400         0   0.10194E-02  489494.0 3860027.4   687.9     5.00     4.19
4.65     NO                    NO
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0000386	0	0.10194E-02	489368.0	3860027.4	683.5	5.00	4.19	4.65	NO	NO
L0000387	0	0.10194E-02	489377.0	3860027.4	683.9	5.00	4.19	4.65	NO	NO
L0000388	0	0.10194E-02	489386.0	3860027.4	684.4	5.00	4.19	4.65	NO	NO
L0000389	0	0.10194E-02	489395.0	3860027.4	684.9	5.00	4.19	4.65	NO	NO
L0000390	0	0.10194E-02	489404.0	3860027.4	685.3	5.00	4.19	4.65	NO	NO
L0000391	0	0.10194E-02	489413.0	3860027.4	685.8	5.00	4.19	4.65	NO	NO
L0000392	0	0.10194E-02	489422.0	3860027.4	686.3	5.00	4.19	4.65	NO	NO
L0000393	0	0.10194E-02	489431.0	3860027.4	686.6	5.00	4.19	4.65	NO	NO
L0000394	0	0.10194E-02	489440.0	3860027.4	686.7	5.00	4.19	4.65	NO	NO
L0000395	0	0.10194E-02	489449.0	3860027.4	686.8	5.00	4.19	4.65	NO	NO
L0000396	0	0.10194E-02	489458.0	3860027.4	687.0	5.00	4.19	4.65	NO	NO
L0000397	0	0.10194E-02	489467.0	3860027.4	687.2	5.00	4.19	4.65	NO	NO
L0000398	0	0.10194E-02	489476.0	3860027.4	687.5	5.00	4.19	4.65	NO	NO
L0000399	0	0.10194E-02	489485.0	3860027.4	687.7	5.00	4.19	4.65	NO	NO
L0000400	0	0.10194E-02	489494.0	3860027.4	687.9	5.00	4.19	4.65	NO	NO

L0000401	0	0.10194E-02	489503.0	3860027.4	688.2	5.00	4.19	
4.65	NO		NO					
L0000402	0	0.10194E-02	489512.0	3860027.4	688.4	5.00	4.19	
4.65	NO		NO					
L0000403	0	0.10194E-02	489521.0	3860027.4	688.7	5.00	4.19	
4.65	NO		NO					
L0000404	0	0.10194E-02	489530.0	3860027.4	688.9	5.00	4.19	
4.65	NO		NO					
L0000405	0	0.10194E-02	489539.0	3860027.4	689.0	5.00	4.19	
4.65	NO		NO					
L0000406	0	0.10194E-02	489548.0	3860027.4	689.2	5.00	4.19	
4.65	NO		NO					
L0000407	0	0.10194E-02	489550.4	3860033.9	688.9	5.00	4.19	
4.65	NO		NO					
L0000408	0	0.10194E-02	489550.3	3860042.9	689.0	5.00	4.19	
4.65	NO		NO					
L0000409	0	0.10194E-02	489550.3	3860051.9	689.2	5.00	4.19	
4.65	NO		NO					
L0000410	0	0.10194E-02	489550.2	3860060.9	689.3	5.00	4.19	
4.65	NO		NO					
L0000411	0	0.10194E-02	489550.1	3860069.9	689.6	5.00	4.19	
4.65	NO		NO					
L0000412	0	0.10194E-02	489550.0	3860078.9	690.1	5.00	4.19	
4.65	NO		NO					
L0000413	0	0.10194E-02	489549.9	3860087.9	690.6	5.00	4.19	
4.65	NO		NO					
L0000414	0	0.10194E-02	489549.8	3860096.9	691.0	5.00	4.19	
4.65	NO		NO					
L0000415	0	0.10194E-02	489549.7	3860105.9	690.9	5.00	4.19	
4.65	NO		NO					
L0000416	0	0.10194E-02	489549.6	3860114.9	690.8	5.00	4.19	
4.65	NO		NO					
L0000417	0	0.10194E-02	489549.5	3860123.9	690.7	5.00	4.19	
4.65	NO		NO					
L0000418	0	0.10194E-02	489549.4	3860132.9	691.2	5.00	4.19	
4.65	NO		NO					
L0000419	0	0.10194E-02	489549.3	3860141.9	692.0	5.00	4.19	
4.65	NO		NO					
L0000420	0	0.10194E-02	489549.2	3860150.9	692.8	5.00	4.19	
4.65	NO		NO					
L0000421	0	0.10194E-02	489549.1	3860159.9	692.8	5.00	4.19	
4.65	NO		NO					
L0000422	0	0.10194E-02	489549.0	3860168.9	690.8	5.00	4.19	
4.65	NO		NO					
L0000423	0	0.10194E-02	489549.0	3860177.9	688.7	5.00	4.19	
4.65	NO		NO					
L0000424	0	0.10194E-02	489548.9	3860186.9	686.6	5.00	4.19	
4.65	NO		NO					
L0000425	0	0.10194E-02	489548.8	3860195.9	685.1	5.00	4.19	
4.65	NO		NO					

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 L0000426         0   0.10194E-02  489548.7 3860204.9   683.8     5.00     4.19
4.65     NO                    NO
 L0000427         0   0.10194E-02  489548.6 3860213.9   682.5     5.00     4.19
4.65     NO                    NO
 L0000428         0   0.10194E-02  489548.5 3860222.9   681.5     5.00     4.19
4.65     NO                    NO
 L0000429         0   0.10194E-02  489548.4 3860231.9   681.0     5.00     4.19
4.65     NO                    NO
 L0000430         0   0.10194E-02  489548.3 3860240.9   680.5     5.00     4.19
4.65     NO                    NO
 L0000431         0   0.10194E-02  489548.2 3860249.9   679.9     5.00     4.19
4.65     NO                    NO
 L0000432         0   0.10194E-02  489548.1 3860258.9   679.5     5.00     4.19
4.65     NO                    NO
 L0000433         0   0.10194E-02  489548.0 3860267.9   679.1     5.00     4.19
4.65     NO                    NO
 L0000434         0   0.10194E-02  489547.9 3860276.9   678.7     5.00     4.19
4.65     NO                    NO
 L0000435         0   0.10194E-02  489547.8 3860285.9   678.2     5.00     4.19
4.65     NO                    NO
 L0000436         0   0.10194E-02  489547.7 3860294.9   677.6     5.00     4.19
4.65     NO                    NO
 L0000437         0   0.10194E-02  489547.7 3860303.9   677.0     5.00     4.19
4.65     NO                    NO
 L0000438         0   0.10194E-02  489547.6 3860312.9   676.4     5.00     4.19
4.65     NO                    NO
 L0000439         0   0.10194E-02  489547.5 3860321.9   676.2     5.00     4.19
4.65     NO                    NO
 L0000440         0   0.10194E-02  489547.4 3860330.9   675.9     5.00     4.19
4.65     NO                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
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L0000441	0	0.10194E-02	489547.3	3860339.9	675.6	5.00	4.19	4.65
NO		NO						
L0000442	0	0.10194E-02	489547.2	3860348.9	675.4	5.00	4.19	4.65
NO		NO						
L0000443	0	0.10194E-02	489547.1	3860357.9	675.2	5.00	4.19	4.65
NO		NO						
L0000444	0	0.10194E-02	489547.0	3860366.9	675.1	5.00	4.19	4.65
NO		NO						
L0000445	0	0.10194E-02	489546.9	3860375.9	674.9	5.00	4.19	4.65
NO		NO						
L0000446	0	0.10194E-02	489546.8	3860384.9	674.8	5.00	4.19	4.65
NO		NO						
L0000447	0	0.10194E-02	489546.7	3860393.9	674.6	5.00	4.19	4.65
NO		NO						
L0000448	0	0.10194E-02	489546.6	3860402.9	674.5	5.00	4.19	4.65
NO		NO						
L0000449	0	0.10194E-02	489546.5	3860411.9	674.5	5.00	4.19	4.65
NO		NO						
L0000450	0	0.10194E-02	489546.4	3860420.9	674.5	5.00	4.19	4.65
NO		NO						
L0000451	0	0.10194E-02	489546.3	3860429.9	674.5	5.00	4.19	4.65
NO		NO						
L0000452	0	0.10194E-02	489546.3	3860438.9	674.7	5.00	4.19	4.65
NO		NO						
L0000453	0	0.10194E-02	489546.2	3860447.9	675.2	5.00	4.19	4.65
NO		NO						
L0000454	0	0.10194E-02	489546.1	3860456.9	675.6	5.00	4.19	4.65
NO		NO						
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NO		NO						
L0000456	0	0.10194E-02	489545.9	3860474.9	677.8	5.00	4.19	4.65
NO		NO						
L0000457	0	0.10194E-02	489545.8	3860483.9	679.4	5.00	4.19	4.65
NO		NO						
L0000458	0	0.10194E-02	489545.7	3860492.9	681.1	5.00	4.19	4.65
NO		NO						
L0000459	0	0.10194E-02	489545.6	3860501.9	681.0	5.00	4.19	4.65
NO		NO						
L0000460	0	0.10194E-02	489545.5	3860510.9	679.9	5.00	4.19	4.65
NO		NO						
L0000461	0	0.10194E-02	489545.4	3860519.9	678.8	5.00	4.19	4.65
NO		NO						
L0000462	0	0.10194E-02	489545.3	3860528.9	677.8	5.00	4.19	4.65
NO		NO						
L0000463	0	0.10194E-02	489545.2	3860537.9	677.1	5.00	4.19	4.65
NO		NO						
L0000464	0	0.10194E-02	489545.1	3860546.9	676.5	5.00	4.19	4.65
NO		NO						
L0000465	0	0.10194E-02	489545.0	3860555.9	675.8	5.00	4.19	4.65
NO		NO						

 L0000466   0   0.10194E-02 489545.0 3860564.9   675.6   5.00   4.19
4.65   NO   NO
 L0000467   0   0.10194E-02 489544.9 3860573.9   675.5   5.00   4.19
4.65   NO   NO
 L0000468   0   0.10194E-02 489544.8 3860582.9   675.4   5.00   4.19
4.65   NO   NO
 L0000469   0   0.10194E-02 489544.7 3860591.9   675.5   5.00   4.19
4.65   NO   NO
 L0000470   0   0.10194E-02 489544.6 3860600.9   675.8   5.00   4.19
4.65   NO   NO
 L0000471   0   0.10194E-02 489544.5 3860609.9   676.1   5.00   4.19
4.65   NO   NO
 L0000472   0   0.10194E-02 489544.4 3860618.9   676.4   5.00   4.19
4.65   NO   NO
 L0000473   0   0.10194E-02 489544.3 3860627.9   677.1   5.00   4.19
4.65   NO   NO
 L0000474   0   0.10194E-02 489544.2 3860636.9   677.8   5.00   4.19
4.65   NO   NO
 L0000475   0   0.10194E-02 489544.1 3860645.9   678.4   5.00   4.19
4.65   NO   NO
 L0000476   0   0.10194E-02 489544.0 3860654.9   679.0   5.00   4.19
4.65   NO   NO
 L0000477   0   0.10194E-02 489543.9 3860663.9   679.6   5.00   4.19
4.65   NO   NO
 L0000478   0   0.10194E-02 489543.8 3860672.9   680.2   5.00   4.19
4.65   NO   NO
 L0000479   0   0.10194E-02 489543.7 3860681.9   680.8   5.00   4.19
4.65   NO   NO
 L0000480   0   0.10194E-02 489543.7 3860690.9   680.8   5.00   4.19
4.65   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

L0000481	0	0.10194E-02	489543.6	3860699.9	680.9	5.00	4.19	
4.65	NO		NO					
L0000482	0	0.10194E-02	489543.5	3860708.9	680.9	5.00	4.19	
4.65	NO		NO					
L0000483	0	0.10194E-02	489543.4	3860717.9	680.8	5.00	4.19	
4.65	NO		NO					
L0000484	0	0.10194E-02	489543.3	3860726.9	680.6	5.00	4.19	
4.65	NO		NO					
L0000485	0	0.10194E-02	489543.2	3860735.9	680.3	5.00	4.19	
4.65	NO		NO					
L0000486	0	0.10194E-02	489543.1	3860744.9	680.1	5.00	4.19	
4.65	NO		NO					
L0000487	0	0.10194E-02	489543.0	3860753.9	680.0	5.00	4.19	
4.65	NO		NO					
L0000488	0	0.10194E-02	489542.9	3860762.9	680.0	5.00	4.19	
4.65	NO		NO					
L0000489	0	0.10194E-02	489542.8	3860771.9	679.9	5.00	4.19	
4.65	NO		NO					
L0000490	0	0.10194E-02	489542.7	3860780.9	679.2	5.00	4.19	
4.65	NO		NO					
L0000491	0	0.10194E-02	489542.6	3860789.9	678.4	5.00	4.19	
4.65	NO		NO					
L0000492	0	0.10194E-02	489542.5	3860798.9	677.6	5.00	4.19	
4.65	NO		NO					
L0000493	0	0.10194E-02	489542.4	3860807.9	676.8	5.00	4.19	
4.65	NO		NO					
L0000494	0	0.10194E-02	489542.3	3860816.9	676.0	5.00	4.19	
4.65	NO		NO					
L0000495	0	0.10194E-02	489542.3	3860825.9	675.2	5.00	4.19	
4.65	NO		NO					
L0000496	0	0.10194E-02	489542.2	3860834.9	674.4	5.00	4.19	
4.65	NO		NO					
L0000497	0	0.10194E-02	489542.1	3860843.9	673.7	5.00	4.19	
4.65	NO		NO					
L0000498	0	0.10194E-02	489542.0	3860852.9	673.0	5.00	4.19	
4.65	NO		NO					
L0000499	0	0.10194E-02	489541.9	3860861.9	672.3	5.00	4.19	
4.65	NO		NO					
L0000500	0	0.10194E-02	489541.8	3860870.9	671.6	5.00	4.19	
4.65	NO		NO					
L0000501	0	0.10194E-02	489535.1	3860873.5	671.5	5.00	4.19	
4.65	NO		NO					
L0000502	0	0.10194E-02	489526.1	3860873.9	671.7	5.00	4.19	
4.65	NO		NO					
L0000503	0	0.10194E-02	489517.1	3860874.3	671.9	5.00	4.19	
4.65	NO		NO					
L0000504	0	0.10194E-02	489508.1	3860874.7	672.1	5.00	4.19	
4.65	NO		NO					
L0000505	0	0.10194E-02	489499.1	3860875.2	672.3	5.00	4.19	
4.65	NO		NO					

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 L0000506         0   0.10194E-02  489490.1 3860875.6   672.5     5.00     4.19
4.65     NO                    NO
 L0000507         0   0.10194E-02  489481.1 3860876.0   672.6     5.00     4.19
4.65     NO                    NO
 L0000508         0   0.10194E-02  489472.1 3860876.4   672.7     5.00     4.19
4.65     NO                    NO
 L0000509         0   0.10194E-02  489463.1 3860876.9   672.8     5.00     4.19
4.65     NO                    NO
 L0000510         0   0.10194E-02  489454.1 3860877.3   672.9     5.00     4.19
4.65     NO                    NO
 L0000511         0   0.10194E-02  489445.2 3860877.7   673.2     5.00     4.19
4.65     NO                    NO
 L0000512         0   0.10194E-02  489436.2 3860878.1   673.6     5.00     4.19
4.65     NO                    NO
 L0000513         0   0.10194E-02  489427.2 3860878.6   673.9     5.00     4.19
4.65     NO                    NO
 L0000514         0   0.10194E-02  489418.2 3860879.0   674.3     5.00     4.19
4.65     NO                    NO
 L0000515         0   0.10194E-02  489409.2 3860879.4   674.7     5.00     4.19
4.65     NO                    NO
 L0000516         0   0.10194E-02  489400.2 3860879.8   675.1     5.00     4.19
4.65     NO                    NO
 L0000517         0   0.10194E-02  489391.2 3860880.3   675.2     5.00     4.19
4.65     NO                    NO
 L0000518         0   0.10194E-02  489382.2 3860880.7   675.3     5.00     4.19
4.65     NO                    NO
 L0000519         0   0.10194E-02  489373.2 3860881.1   675.2     5.00     4.19
4.65     NO                    NO
 L0000520         0   0.10194E-02  489364.2 3860881.5   674.9     5.00     4.19
4.65     NO                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
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L0000521	0	0.10194E-02	489355.3	3860882.0	674.6	5.00	4.19	4.65
NO		NO						
L0000522	0	0.10194E-02	489346.3	3860882.4	674.1	5.00	4.19	4.65
NO		NO						
L0000523	0	0.10194E-02	489337.3	3860882.8	673.6	5.00	4.19	4.65
NO		NO						
L0000524	0	0.10194E-02	489328.3	3860883.2	673.1	5.00	4.19	4.65
NO		NO						
L0000525	0	0.10194E-02	489319.3	3860883.6	672.5	5.00	4.19	4.65
NO		NO						
L0000526	0	0.10194E-02	489310.3	3860884.1	672.0	5.00	4.19	4.65
NO		NO						
L0000527	0	0.10194E-02	489310.1	3860875.3	672.5	5.00	4.19	4.65
NO		NO						
L0000528	0	0.10194E-02	489310.0	3860866.3	672.9	5.00	4.19	4.65
NO		NO						
L0000529	0	0.10194E-02	489310.0	3860857.3	673.1	5.00	4.19	4.65
NO		NO						
L0000530	0	0.10194E-02	489309.9	3860848.3	673.3	5.00	4.19	4.65
NO		NO						
L0000531	0	0.10194E-02	489309.9	3860839.3	673.5	5.00	4.19	4.65
NO		NO						
L0000532	0	0.10194E-02	489309.8	3860830.3	673.7	5.00	4.19	4.65
NO		NO						
L0000533	0	0.10194E-02	489309.8	3860821.3	673.7	5.00	4.19	4.65
NO		NO						
L0000534	0	0.10194E-02	489309.7	3860812.3	673.8	5.00	4.19	4.65
NO		NO						
L0000535	0	0.10194E-02	489309.7	3860803.3	673.8	5.00	4.19	4.65
NO		NO						
L0000536	0	0.10194E-02	489309.6	3860794.3	673.4	5.00	4.19	4.65
NO		NO						
L0000537	0	0.10194E-02	489309.6	3860785.3	673.0	5.00	4.19	4.65
NO		NO						
L0000538	0	0.10194E-02	489309.5	3860776.3	672.6	5.00	4.19	4.65
NO		NO						
L0000539	0	0.10194E-02	489309.5	3860767.3	672.5	5.00	4.19	4.65
NO		NO						
L0000540	0	0.10194E-02	489309.4	3860758.3	672.5	5.00	4.19	4.65
NO		NO						
L0000541	0	0.10194E-02	489309.4	3860749.3	672.5	5.00	4.19	4.65
NO		NO						
L0000542	0	0.10194E-02	489309.3	3860740.3	672.5	5.00	4.19	4.65
NO		NO						
L0000543	0	0.10194E-02	489309.3	3860731.3	672.5	5.00	4.19	4.65
NO		NO						
L0000544	0	0.10194E-02	489309.3	3860722.3	672.4	5.00	4.19	4.65
NO		NO						
L0000545	0	0.10194E-02	489309.2	3860713.3	672.4	5.00	4.19	4.65
NO		NO						

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT

L0000561	0	0.10194E-02	489308.4	3860569.3	673.1	5.00	4.19	
4.65	NO		NO					
L0000562	0	0.10194E-02	489308.4	3860560.3	673.2	5.00	4.19	
4.65	NO		NO					
L0000563	0	0.10194E-02	489308.3	3860551.3	673.2	5.00	4.19	
4.65	NO		NO					
L0000564	0	0.10194E-02	489308.3	3860542.3	673.2	5.00	4.19	
4.65	NO		NO					
L0000565	0	0.10194E-02	489308.2	3860533.3	673.3	5.00	4.19	
4.65	NO		NO					
L0000566	0	0.10194E-02	489308.2	3860524.3	673.3	5.00	4.19	
4.65	NO		NO					
L0000567	0	0.10194E-02	489308.1	3860515.3	673.4	5.00	4.19	
4.65	NO		NO					
L0000568	0	0.10194E-02	489308.1	3860506.3	673.5	5.00	4.19	
4.65	NO		NO					
L0000569	0	0.10194E-02	489308.0	3860497.3	673.6	5.00	4.19	
4.65	NO		NO					
L0000570	0	0.10194E-02	489308.0	3860488.3	673.6	5.00	4.19	
4.65	NO		NO					
L0000571	0	0.10194E-02	489307.9	3860479.3	673.7	5.00	4.19	
4.65	NO		NO					
L0000572	0	0.10194E-02	489307.9	3860470.3	673.8	5.00	4.19	
4.65	NO		NO					
L0000573	0	0.10194E-02	489307.8	3860461.3	673.9	5.00	4.19	
4.65	NO		NO					
L0000574	0	0.10194E-02	489307.8	3860452.3	674.0	5.00	4.19	
4.65	NO		NO					
L0000575	0	0.10194E-02	489307.7	3860443.3	674.0	5.00	4.19	
4.65	NO		NO					
L0000576	0	0.10194E-02	489307.7	3860434.3	674.1	5.00	4.19	
4.65	NO		NO					
L0000577	0	0.10194E-02	489307.6	3860425.3	674.3	5.00	4.19	
4.65	NO		NO					
L0000578	0	0.10194E-02	489307.6	3860416.3	674.4	5.00	4.19	
4.65	NO		NO					
L0000579	0	0.10194E-02	489307.6	3860407.3	674.6	5.00	4.19	
4.65	NO		NO					
L0000580	0	0.10194E-02	489307.5	3860398.3	674.7	5.00	4.19	
4.65	NO		NO					
L0000581	0	0.10194E-02	489307.5	3860389.3	674.8	5.00	4.19	
4.65	NO		NO					
L0000582	0	0.10194E-02	489307.4	3860380.3	674.9	5.00	4.19	
4.65	NO		NO					
L0000583	0	0.10194E-02	489307.4	3860371.3	675.1	5.00	4.19	
4.65	NO		NO					
L0000584	0	0.10194E-02	489307.3	3860362.3	675.2	5.00	4.19	
4.65	NO		NO					
L0000585	0	0.10194E-02	489307.3	3860353.3	675.3	5.00	4.19	
4.65	NO		NO					

 L0000586   0   0.10194E-02 489307.2 3860344.3   675.5   5.00   4.19
4.65   NO   NO
 L0000587   0   0.10194E-02 489307.2 3860335.3   675.5   5.00   4.19
4.65   NO   NO
 L0000588   0   0.10194E-02 489307.1 3860326.3   675.5   5.00   4.19
4.65   NO   NO
 L0000589   0   0.10194E-02 489307.1 3860317.3   675.4   5.00   4.19
4.65   NO   NO
 L0000590   0   0.10194E-02 489307.0 3860308.3   675.6   5.00   4.19
4.65   NO   NO
 L0000591   0   0.10194E-02 489307.0 3860299.3   676.1   5.00   4.19
4.65   NO   NO
 L0000592   0   0.10194E-02 489306.9 3860290.3   676.5   5.00   4.19
4.65   NO   NO
 L0000593   0   0.10194E-02 489306.9 3860281.3   677.0   5.00   4.19
4.65   NO   NO
 L0000594   0   0.10194E-02 489306.8 3860272.3   677.0   5.00   4.19
4.65   NO   NO
 L0000595   0   0.10194E-02 489306.8 3860263.3   676.9   5.00   4.19
4.65   NO   NO
 L0000596   0   0.10194E-02 489306.7 3860254.3   676.9   5.00   4.19
4.65   NO   NO
 L0000597   0   0.10194E-02 489306.7 3860245.3   676.9   5.00   4.19
4.65   NO   NO
 L0000598   0   0.10194E-02 489306.6 3860236.3   676.9   5.00   4.19
4.65   NO   NO
 L0000599   0   0.10194E-02 489306.6 3860227.3   676.9   5.00   4.19
4.65   NO   NO
 L0000600   0   0.10194E-02 489306.5 3860218.3   676.9   5.00   4.19
4.65   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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L0000601	0	0.10194E-02	489306.5	3860209.3	677.0	5.00	4.19	
4.65	NO	NO						
L0000602	0	0.10194E-02	489306.4	3860200.3	677.1	5.00	4.19	
4.65	NO	NO						
L0000603	0	0.10194E-02	489306.4	3860191.3	677.2	5.00	4.19	
4.65	NO	NO						
L0000604	0	0.10194E-02	489306.3	3860182.3	677.4	5.00	4.19	
4.65	NO	NO						
L0000605	0	0.10194E-02	489306.3	3860173.3	677.8	5.00	4.19	
4.65	NO	NO						
L0000606	0	0.10194E-02	489306.2	3860164.3	678.2	5.00	4.19	
4.65	NO	NO						
L0000607	0	0.10194E-02	489306.2	3860155.3	678.7	5.00	4.19	
4.65	NO	NO						
L0000608	0	0.10194E-02	489306.1	3860146.3	679.6	5.00	4.19	
4.65	NO	NO						
L0000609	0	0.10194E-02	489306.1	3860137.3	680.4	5.00	4.19	
4.65	NO	NO						
L0000610	0	0.10194E-02	489306.0	3860128.3	681.3	5.00	4.19	
4.65	NO	NO						
L0000611	0	0.10194E-02	489306.0	3860119.3	681.7	5.00	4.19	
4.65	NO	NO						
L0000612	0	0.10194E-02	489306.0	3860110.3	682.1	5.00	4.19	
4.65	NO	NO						
L0000613	0	0.10194E-02	489305.9	3860101.3	682.4	5.00	4.19	
4.65	NO	NO						
L0000614	0	0.10194E-02	489305.9	3860092.3	682.4	5.00	4.19	
4.65	NO	NO						
L0000615	0	0.10194E-02	489305.8	3860083.3	681.8	5.00	4.19	
4.65	NO	NO						
L0000616	0	0.10194E-02	489305.8	3860074.3	681.3	5.00	4.19	
4.65	NO	NO						
L0000617	0	0.10194E-02	489313.8	3860073.4	681.5	5.00	4.19	
4.65	NO	NO						
L0000618	0	0.10194E-02	489322.8	3860073.5	681.8	5.00	4.19	
4.65	NO	NO						
L0000619	0	0.10194E-02	489331.8	3860073.6	682.0	5.00	4.19	
4.65	NO	NO						
L0000620	0	0.10194E-02	489340.8	3860073.7	682.3	5.00	4.19	
4.65	NO	NO						
L0000621	0	0.10194E-02	489349.8	3860073.8	682.6	5.00	4.19	
4.65	NO	NO						
L0000622	0	0.10194E-02	489358.8	3860073.9	683.0	5.00	4.19	
4.65	NO	NO						
L0000623	0	0.10194E-02	489367.8	3860074.0	683.3	5.00	4.19	
4.65	NO	NO						
L0000624	0	0.10194E-02	489376.8	3860074.1	683.7	5.00	4.19	
4.65	NO	NO						
L0000625	0	0.10194E-02	489385.8	3860074.2	684.0	5.00	4.19	
4.65	NO	NO						

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 L0000626         0   0.10194E-02  489394.8 3860074.3   684.2     5.00     4.19
4.65     NO                    NO
 L0000627         0   0.10194E-02  489403.8 3860074.4   684.5     5.00     4.19
4.65     NO                    NO
 L0000628         0   0.10194E-02  489412.8 3860074.5   684.8     5.00     4.19
4.65     NO                    NO
 L0000629         0   0.10194E-02  489421.8 3860074.6   685.1     5.00     4.19
4.65     NO                    NO
 L0000630         0   0.10194E-02  489430.8 3860074.7   685.3     5.00     4.19
4.65     NO                    NO
 L0000631         0   0.10194E-02  489439.8 3860074.8   685.5     5.00     4.19
4.65     NO                    NO
 L0000632         0   0.10194E-02  489448.8 3860074.9   685.7     5.00     4.19
4.65     NO                    NO
 L0000633         0   0.10194E-02  489457.8 3860075.0   685.8     5.00     4.19
4.65     NO                    NO
 L0000634         0   0.10194E-02  489466.8 3860075.1   686.0     5.00     4.19
4.65     NO                    NO
 L0000635         0   0.10194E-02  489475.8 3860075.2   686.2     5.00     4.19
4.65     NO                    NO
 L0000636         0   0.10194E-02  489484.8 3860075.3   686.5     5.00     4.19
4.65     NO                    NO
 L0000637         0   0.10194E-02  489493.8 3860075.4   687.0     5.00     4.19
4.65     NO                    NO
 L0000638         0   0.10194E-02  489502.8 3860075.5   687.4     5.00     4.19
4.65     NO                    NO
 L0000639         0   0.10194E-02  489504.7 3860082.7   687.9     5.00     4.19
4.65     NO                    NO
 L0000640         0   0.10194E-02  489504.8 3860091.7   688.5     5.00     4.19
4.65     NO                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                  PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
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L0000641	0	0.10194E-02	489504.8	3860100.7	688.8	5.00	4.19	
4.65	NO		NO					
L0000642	0	0.10194E-02	489504.9	3860109.7	689.0	5.00	4.19	
4.65	NO		NO					
L0000643	0	0.10194E-02	489505.0	3860118.7	689.2	5.00	4.19	
4.65	NO		NO					
L0000644	0	0.10194E-02	489505.1	3860127.7	689.5	5.00	4.19	
4.65	NO		NO					
L0000645	0	0.10194E-02	489505.1	3860136.7	690.1	5.00	4.19	
4.65	NO		NO					
L0000646	0	0.10194E-02	489505.2	3860145.7	690.7	5.00	4.19	
4.65	NO		NO					
L0000647	0	0.10194E-02	489505.3	3860154.7	691.3	5.00	4.19	
4.65	NO		NO					
L0000648	0	0.10194E-02	489505.4	3860163.7	690.3	5.00	4.19	
4.65	NO		NO					
L0000649	0	0.10194E-02	489505.5	3860172.7	688.7	5.00	4.19	
4.65	NO		NO					
L0000650	0	0.10194E-02	489505.5	3860181.7	687.0	5.00	4.19	
4.65	NO		NO					
L0000651	0	0.10194E-02	489505.6	3860190.7	685.5	5.00	4.19	
4.65	NO		NO					
L0000652	0	0.10194E-02	489505.7	3860199.7	684.4	5.00	4.19	
4.65	NO		NO					
L0000653	0	0.10194E-02	489505.8	3860208.7	683.2	5.00	4.19	
4.65	NO		NO					
L0000654	0	0.10194E-02	489505.8	3860217.7	682.1	5.00	4.19	
4.65	NO		NO					
L0000655	0	0.10194E-02	489505.9	3860226.7	681.6	5.00	4.19	
4.65	NO		NO					
L0000656	0	0.10194E-02	489506.0	3860235.7	681.1	5.00	4.19	
4.65	NO		NO					
L0000657	0	0.10194E-02	489506.1	3860244.7	680.7	5.00	4.19	
4.65	NO		NO					
L0000658	0	0.10194E-02	489506.2	3860253.7	680.2	5.00	4.19	
4.65	NO		NO					
L0000659	0	0.10194E-02	489506.2	3860262.7	679.8	5.00	4.19	
4.65	NO		NO					
L0000660	0	0.10194E-02	489506.3	3860271.7	679.4	5.00	4.19	
4.65	NO		NO					
L0000661	0	0.10194E-02	489506.4	3860280.7	679.0	5.00	4.19	
4.65	NO		NO					
L0000662	0	0.10194E-02	489506.5	3860289.7	678.4	5.00	4.19	
4.65	NO		NO					
L0000663	0	0.10194E-02	489506.6	3860298.7	677.8	5.00	4.19	
4.65	NO		NO					
L0000664	0	0.10194E-02	489506.6	3860307.7	677.1	5.00	4.19	
4.65	NO		NO					
L0000665	0	0.10194E-02	489506.7	3860316.7	676.6	5.00	4.19	
4.65	NO		NO					

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 L0000666         0   0.10194E-02  489506.8 3860325.7   676.1     5.00     4.19
4.65     NO                    NO
 L0000667         0   0.10194E-02  489506.9 3860334.7   675.5     5.00     4.19
4.65     NO                    NO
 L0000668         0   0.10194E-02  489506.9 3860343.7   675.1     5.00     4.19
4.65     NO                    NO
 L0000669         0   0.10194E-02  489507.0 3860352.7   674.9     5.00     4.19
4.65     NO                    NO
 L0000670         0   0.10194E-02  489507.1 3860361.7   674.8     5.00     4.19
4.65     NO                    NO
 L0000671         0   0.10194E-02  489507.2 3860370.7   674.7     5.00     4.19
4.65     NO                    NO
 L0000672         0   0.10194E-02  489507.3 3860379.7   674.6     5.00     4.19
4.65     NO                    NO
 L0000673         0   0.10194E-02  489507.3 3860388.7   674.5     5.00     4.19
4.65     NO                    NO
 L0000674         0   0.10194E-02  489507.4 3860397.7   674.4     5.00     4.19
4.65     NO                    NO
 L0000675         0   0.10194E-02  489507.5 3860406.7   674.3     5.00     4.19
4.65     NO                    NO
 L0000676         0   0.10194E-02  489507.6 3860415.7   674.3     5.00     4.19
4.65     NO                    NO
 L0000677         0   0.10194E-02  489507.6 3860424.7   674.3     5.00     4.19
4.65     NO                    NO
 L0000678         0   0.10194E-02  489507.7 3860433.7   674.4     5.00     4.19
4.65     NO                    NO
 L0000679         0   0.10194E-02  489507.8 3860442.7   674.7     5.00     4.19
4.65     NO                    NO
 L0000680         0   0.10194E-02  489507.9 3860451.7   675.1     5.00     4.19
4.65     NO                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
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L0000681	0	0.10194E-02	489508.0	3860460.7	675.5	5.00	4.19	
4.65	NO	NO						
L0000682	0	0.10194E-02	489508.0	3860469.7	676.3	5.00	4.19	
4.65	NO	NO						
L0000683	0	0.10194E-02	489508.1	3860478.7	677.7	5.00	4.19	
4.65	NO	NO						
L0000684	0	0.10194E-02	489508.2	3860487.7	679.1	5.00	4.19	
4.65	NO	NO						
L0000685	0	0.10194E-02	489508.3	3860496.7	680.4	5.00	4.19	
4.65	NO	NO						
L0000686	0	0.10194E-02	489508.3	3860505.7	679.3	5.00	4.19	
4.65	NO	NO						
L0000687	0	0.10194E-02	489508.4	3860514.7	678.2	5.00	4.19	
4.65	NO	NO						
L0000688	0	0.10194E-02	489508.5	3860523.7	677.2	5.00	4.19	
4.65	NO	NO						
L0000689	0	0.10194E-02	489508.6	3860532.7	676.5	5.00	4.19	
4.65	NO	NO						
L0000690	0	0.10194E-02	489508.7	3860541.7	676.0	5.00	4.19	
4.65	NO	NO						
L0000691	0	0.10194E-02	489508.7	3860550.7	675.5	5.00	4.19	
4.65	NO	NO						
L0000692	0	0.10194E-02	489508.8	3860559.7	675.1	5.00	4.19	
4.65	NO	NO						
L0000693	0	0.10194E-02	489508.9	3860568.7	675.0	5.00	4.19	
4.65	NO	NO						
L0000694	0	0.10194E-02	489509.0	3860577.7	674.9	5.00	4.19	
4.65	NO	NO						
L0000695	0	0.10194E-02	489509.0	3860586.7	674.8	5.00	4.19	
4.65	NO	NO						
L0000696	0	0.10194E-02	489509.1	3860595.7	675.0	5.00	4.19	
4.65	NO	NO						
L0000697	0	0.10194E-02	489509.2	3860604.7	675.1	5.00	4.19	
4.65	NO	NO						
L0000698	0	0.10194E-02	489509.3	3860613.7	675.3	5.00	4.19	
4.65	NO	NO						
L0000699	0	0.10194E-02	489509.4	3860622.7	675.7	5.00	4.19	
4.65	NO	NO						
L0000700	0	0.10194E-02	489509.4	3860631.7	676.5	5.00	4.19	
4.65	NO	NO						
L0000701	0	0.10194E-02	489509.5	3860640.7	677.2	5.00	4.19	
4.65	NO	NO						
L0000702	0	0.10194E-02	489509.6	3860649.7	678.0	5.00	4.19	
4.65	NO	NO						
L0000703	0	0.10194E-02	489509.7	3860658.7	679.0	5.00	4.19	
4.65	NO	NO						
L0000704	0	0.10194E-02	489509.8	3860667.7	680.0	5.00	4.19	
4.65	NO	NO						
L0000705	0	0.10194E-02	489509.8	3860676.7	681.1	5.00	4.19	
4.65	NO	NO						

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 L0000706         0   0.10194E-02  489509.9 3860685.7   681.5     5.00     4.19
4.65     NO                    NO
 L0000707         0   0.10194E-02  489510.0 3860694.7   681.2     5.00     4.19
4.65     NO                    NO
 L0000708         0   0.10194E-02  489510.1 3860703.7   681.0     5.00     4.19
4.65     NO                    NO
 L0000709         0   0.10194E-02  489510.1 3860712.7   680.8     5.00     4.19
4.65     NO                    NO
 L0000710         0   0.10194E-02  489510.2 3860721.7   680.8     5.00     4.19
4.65     NO                    NO
 L0000711         0   0.10194E-02  489510.3 3860730.7   680.9     5.00     4.19
4.65     NO                    NO
 L0000712         0   0.10194E-02  489510.4 3860739.7   681.0     5.00     4.19
4.65     NO                    NO
 L0000713         0   0.10194E-02  489510.5 3860748.7   681.0     5.00     4.19
4.65     NO                    NO
 L0000714         0   0.10194E-02  489510.5 3860757.7   681.1     5.00     4.19
4.65     NO                    NO
 L0000715         0   0.10194E-02  489510.6 3860766.7   681.1     5.00     4.19
4.65     NO                    NO
 L0000716         0   0.10194E-02  489510.7 3860775.7   681.0     5.00     4.19
4.65     NO                    NO
 L0000717         0   0.10194E-02  489510.8 3860784.7   680.1     5.00     4.19
4.65     NO                    NO
 L0000718         0   0.10194E-02  489510.8 3860793.7   679.2     5.00     4.19
4.65     NO                    NO
 L0000719         0   0.10194E-02  489510.9 3860802.7   678.4     5.00     4.19
4.65     NO                    NO
 L0000720         0   0.10194E-02  489511.0 3860811.7   677.5     5.00     4.19
4.65     NO                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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                                  PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
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L0000721	0	0.10194E-02	489511.1	3860820.7	676.6	5.00	4.19	4.65
NO		NO						
L0000722	0	0.10194E-02	489511.2	3860829.7	675.8	5.00	4.19	4.65
NO		NO						
L0000723	0	0.10194E-02	489504.1	3860831.6	675.8	5.00	4.19	4.65
NO		NO						
L0000724	0	0.10194E-02	489495.1	3860831.6	675.7	5.00	4.19	4.65
NO		NO						
L0000725	0	0.10194E-02	489486.1	3860831.6	675.6	5.00	4.19	4.65
NO		NO						
L0000726	0	0.10194E-02	489477.1	3860831.6	675.6	5.00	4.19	4.65
NO		NO						
L0000727	0	0.10194E-02	489468.1	3860831.6	675.8	5.00	4.19	4.65
NO		NO						
L0000728	0	0.10194E-02	489459.1	3860831.6	675.9	5.00	4.19	4.65
NO		NO						
L0000729	0	0.10194E-02	489450.1	3860831.6	676.1	5.00	4.19	4.65
NO		NO						
L0000730	0	0.10194E-02	489441.1	3860831.6	676.2	5.00	4.19	4.65
NO		NO						
L0000731	0	0.10194E-02	489432.1	3860831.6	676.4	5.00	4.19	4.65
NO		NO						
L0000732	0	0.10194E-02	489423.1	3860831.6	676.6	5.00	4.19	4.65
NO		NO						
L0000733	0	0.10194E-02	489414.1	3860831.6	677.0	5.00	4.19	4.65
NO		NO						
L0000734	0	0.10194E-02	489405.1	3860831.6	677.3	5.00	4.19	4.65
NO		NO						
L0000735	0	0.10194E-02	489396.1	3860831.6	677.3	5.00	4.19	4.65
NO		NO						
L0000736	0	0.10194E-02	489387.1	3860831.6	677.1	5.00	4.19	4.65
NO		NO						
L0000737	0	0.10194E-02	489378.1	3860831.6	676.9	5.00	4.19	4.65
NO		NO						
L0000738	0	0.10194E-02	489369.1	3860831.6	676.6	5.00	4.19	4.65
NO		NO						
L0000739	0	0.10194E-02	489360.1	3860831.6	676.3	5.00	4.19	4.65
NO		NO						
L0000740	0	0.10194E-02	489351.1	3860831.6	675.9	5.00	4.19	4.65
NO		NO						
L0000741	0	0.10194E-02	489342.1	3860831.6	675.3	5.00	4.19	4.65
NO		NO						
L0000742	0	0.10194E-02	489340.7	3860824.1	674.9	5.00	4.19	4.65
NO		NO						
L0000743	0	0.10194E-02	489340.7	3860815.1	674.6	5.00	4.19	4.65
NO		NO						
L0000744	0	0.10194E-02	489340.7	3860806.1	674.4	5.00	4.19	4.65
NO		NO						
L0000745	0	0.10194E-02	489340.7	3860797.1	674.1	5.00	4.19	4.65
NO		NO						

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0000746	0	0.10194E-02	489340.7	3860788.1	673.8	5.00	4.19	4.65	NO	NO	
L0000747	0	0.10194E-02	489340.7	3860779.1	673.5	5.00	4.19	4.65	NO	NO	
L0000748	0	0.10194E-02	489340.7	3860770.1	673.3	5.00	4.19	4.65	NO	NO	
L0000749	0	0.10194E-02	489340.7	3860761.1	673.2	5.00	4.19	4.65	NO	NO	
L0000750	0	0.10194E-02	489340.7	3860752.1	673.2	5.00	4.19	4.65	NO	NO	
L0000751	0	0.10194E-02	489340.7	3860743.1	673.2	5.00	4.19	4.65	NO	NO	
L0000752	0	0.10194E-02	489340.7	3860734.1	673.1	5.00	4.19	4.65	NO	NO	
L0000753	0	0.10194E-02	489340.7	3860725.1	673.0	5.00	4.19	4.65	NO	NO	
L0000754	0	0.10194E-02	489340.7	3860716.1	673.0	5.00	4.19	4.65	NO	NO	
L0000755	0	0.10194E-02	489340.7	3860707.1	672.9	5.00	4.19	4.65	NO	NO	
L0000756	0	0.10194E-02	489340.7	3860698.1	673.0	5.00	4.19	4.65	NO	NO	
L0000757	0	0.10194E-02	489340.7	3860689.1	673.0	5.00	4.19	4.65	NO	NO	
L0000758	0	0.10194E-02	489340.7	3860680.1	673.0	5.00	4.19	4.65	NO	NO	
L0000759	0	0.10194E-02	489340.7	3860671.1	673.0	5.00	4.19	4.65	NO	NO	
L0000760	0	0.10194E-02	489340.7	3860662.1	673.0	5.00	4.19	4.65	NO	NO	

L0000761	0	0.10194E-02	489340.7	3860653.1	673.0	5.00	4.19	
4.65	NO		NO					
L0000762	0	0.10194E-02	489340.7	3860644.1	673.0	5.00	4.19	
4.65	NO		NO					
L0000763	0	0.10194E-02	489340.7	3860635.1	673.0	5.00	4.19	
4.65	NO		NO					
L0000764	0	0.10194E-02	489340.7	3860626.1	673.0	5.00	4.19	
4.65	NO		NO					
L0000765	0	0.10194E-02	489340.7	3860617.1	673.0	5.00	4.19	
4.65	NO		NO					
L0000766	0	0.10194E-02	489340.7	3860608.1	673.0	5.00	4.19	
4.65	NO		NO					
L0000767	0	0.10194E-02	489340.7	3860599.1	673.1	5.00	4.19	
4.65	NO		NO					
L0000768	0	0.10194E-02	489340.7	3860590.1	673.1	5.00	4.19	
4.65	NO		NO					
L0000769	0	0.10194E-02	489340.7	3860581.1	673.2	5.00	4.19	
4.65	NO		NO					
L0000770	0	0.10194E-02	489340.7	3860572.1	673.3	5.00	4.19	
4.65	NO		NO					
L0000771	0	0.10194E-02	489340.7	3860563.1	673.3	5.00	4.19	
4.65	NO		NO					
L0000772	0	0.10194E-02	489340.7	3860554.1	673.4	5.00	4.19	
4.65	NO		NO					
L0000773	0	0.10194E-02	489340.7	3860545.1	673.5	5.00	4.19	
4.65	NO		NO					
L0000774	0	0.10194E-02	489340.7	3860536.1	673.5	5.00	4.19	
4.65	NO		NO					
L0000775	0	0.10194E-02	489340.7	3860527.1	673.6	5.00	4.19	
4.65	NO		NO					
L0000776	0	0.10194E-02	489340.7	3860518.1	673.7	5.00	4.19	
4.65	NO		NO					
L0000777	0	0.10194E-02	489340.7	3860509.1	673.8	5.00	4.19	
4.65	NO		NO					
L0000778	0	0.10194E-02	489340.7	3860500.1	673.9	5.00	4.19	
4.65	NO		NO					
L0000779	0	0.10194E-02	489340.7	3860491.1	674.0	5.00	4.19	
4.65	NO		NO					
L0000780	0	0.10194E-02	489340.7	3860482.1	674.0	5.00	4.19	
4.65	NO		NO					
L0000781	0	0.10194E-02	489340.7	3860473.1	674.1	5.00	4.19	
4.65	NO		NO					
L0000782	0	0.10194E-02	489340.7	3860464.1	674.1	5.00	4.19	
4.65	NO		NO					
L0000783	0	0.10194E-02	489340.7	3860455.1	674.2	5.00	4.19	
4.65	NO		NO					
L0000784	0	0.10194E-02	489340.7	3860446.1	674.3	5.00	4.19	
4.65	NO		NO					
L0000785	0	0.10194E-02	489340.7	3860437.1	674.5	5.00	4.19	
4.65	NO		NO					

 L0000786   0   0.10194E-02 489340.7 3860428.1   674.6   5.00   4.19
4.65   NO   NO
 L0000787   0   0.10194E-02 489340.7 3860419.1   674.6   5.00   4.19
4.65   NO   NO
 L0000788   0   0.10194E-02 489340.7 3860410.1   674.8   5.00   4.19
4.65   NO   NO
 L0000789   0   0.10194E-02 489340.7 3860401.1   674.8   5.00   4.19
4.65   NO   NO
 L0000790   0   0.10194E-02 489340.7 3860392.1   675.0   5.00   4.19
4.65   NO   NO
 L0000791   0   0.10194E-02 489340.7 3860383.1   675.1   5.00   4.19
4.65   NO   NO
 L0000792   0   0.10194E-02 489340.7 3860374.1   675.2   5.00   4.19
4.65   NO   NO
 L0000793   0   0.10194E-02 489340.7 3860365.1   675.2   5.00   4.19
4.65   NO   NO
 L0000794   0   0.10194E-02 489340.7 3860356.1   675.3   5.00   4.19
4.65   NO   NO
 L0000795   0   0.10194E-02 489340.7 3860347.1   675.3   5.00   4.19
4.65   NO   NO
 L0000796   0   0.10194E-02 489340.7 3860338.1   675.3   5.00   4.19
4.65   NO   NO
 L0000797   0   0.10194E-02 489340.7 3860329.1   675.3   5.00   4.19
4.65   NO   NO
 L0000798   0   0.10194E-02 489340.7 3860320.1   675.3   5.00   4.19
4.65   NO   NO
 L0000799   0   0.10194E-02 489340.7 3860311.1   675.4   5.00   4.19
4.65   NO   NO
 L0000800   0   0.10194E-02 489340.7 3860302.1   676.0   5.00   4.19
4.65   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

L0000801	0	0.10194E-02	489340.7	3860293.1	676.7	5.00	4.19	4.65
NO		NO						
L0000802	0	0.10194E-02	489340.7	3860284.1	677.4	5.00	4.19	4.65
NO		NO						
L0000803	0	0.10194E-02	489340.7	3860275.1	677.7	5.00	4.19	4.65
NO		NO						
L0000804	0	0.10194E-02	489340.7	3860266.1	677.8	5.00	4.19	4.65
NO		NO						
L0000805	0	0.10194E-02	489340.7	3860257.1	677.9	5.00	4.19	4.65
NO		NO						
L0000806	0	0.10194E-02	489340.7	3860248.1	677.9	5.00	4.19	4.65
NO		NO						
L0000807	0	0.10194E-02	489340.7	3860239.1	677.8	5.00	4.19	4.65
NO		NO						
L0000808	0	0.10194E-02	489340.7	3860230.1	677.7	5.00	4.19	4.65
NO		NO						
L0000809	0	0.10194E-02	489340.7	3860221.1	677.6	5.00	4.19	4.65
NO		NO						
L0000810	0	0.10194E-02	489340.7	3860212.1	677.7	5.00	4.19	4.65
NO		NO						
L0000811	0	0.10194E-02	489340.7	3860203.1	677.9	5.00	4.19	4.65
NO		NO						
L0000812	0	0.10194E-02	489340.7	3860194.1	678.0	5.00	4.19	4.65
NO		NO						
L0000813	0	0.10194E-02	489340.7	3860185.1	678.4	5.00	4.19	4.65
NO		NO						
L0000814	0	0.10194E-02	489340.7	3860176.1	678.9	5.00	4.19	4.65
NO		NO						
L0000815	0	0.10194E-02	489340.7	3860167.1	679.5	5.00	4.19	4.65
NO		NO						
L0000816	0	0.10194E-02	489340.7	3860158.1	680.0	5.00	4.19	4.65
NO		NO						
L0000817	0	0.10194E-02	489340.7	3860149.1	681.1	5.00	4.19	4.65
NO		NO						
L0000818	0	0.10194E-02	489340.7	3860140.1	682.2	5.00	4.19	4.65
NO		NO						
L0000819	0	0.10194E-02	489340.7	3860131.1	683.2	5.00	4.19	4.65
NO		NO						
L0000820	0	0.10194E-02	489348.8	3860130.3	683.8	5.00	4.19	4.65
NO		NO						
L0000821	0	0.10194E-02	489357.8	3860130.4	684.5	5.00	4.19	4.65
NO		NO						
L0000822	0	0.10194E-02	489366.8	3860130.6	685.1	5.00	4.19	4.65
NO		NO						
L0000823	0	0.10194E-02	489375.8	3860130.8	685.8	5.00	4.19	4.65
NO		NO						
L0000824	0	0.10194E-02	489384.8	3860130.9	686.4	5.00	4.19	4.65
NO		NO						
L0000825	0	0.10194E-02	489393.8	3860131.1	686.9	5.00	4.19	4.65
NO		NO						

 L0000826   0   0.10194E-02 489402.8 3860131.3   687.5   5.00   4.19
4.65   NO   NO
 L0000827   0   0.10194E-02 489411.8 3860131.4   687.8   5.00   4.19
4.65   NO   NO
 L0000828   0   0.10194E-02 489420.8 3860131.6   688.1   5.00   4.19
4.65   NO   NO
 L0000829   0   0.10194E-02 489429.8 3860131.7   688.5   5.00   4.19
4.65   NO   NO
 L0000830   0   0.10194E-02 489438.8 3860131.9   689.2   5.00   4.19
4.65   NO   NO
 L0000831   0   0.10194E-02 489447.8 3860132.1   689.9   5.00   4.19
4.65   NO   NO
 L0000832   0   0.10194E-02 489456.8 3860132.2   690.1   5.00   4.19
4.65   NO   NO
 L0000833   0   0.10194E-02 489463.1 3860135.0   689.9   5.00   4.19
4.65   NO   NO
 L0000834   0   0.10194E-02 489463.2 3860144.0   690.2   5.00   4.19
4.65   NO   NO
 L0000835   0   0.10194E-02 489463.3 3860153.0   690.4   5.00   4.19
4.65   NO   NO
 L0000836   0   0.10194E-02 489463.4 3860162.0   689.7   5.00   4.19
4.65   NO   NO
 L0000837   0   0.10194E-02 489463.5 3860171.0   687.9   5.00   4.19
4.65   NO   NO
 L0000838   0   0.10194E-02 489463.6 3860180.0   686.0   5.00   4.19
4.65   NO   NO
 L0000839   0   0.10194E-02 489463.7 3860189.0   684.3   5.00   4.19
4.65   NO   NO
 L0000840   0   0.10194E-02 489463.7 3860198.0   683.5   5.00   4.19
4.65   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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L0000841	0	0.10194E-02	489463.8	3860207.0	682.6	5.00	4.19	
4.65	NO	NO						
L0000842	0	0.10194E-02	489463.9	3860216.0	681.8	5.00	4.19	
4.65	NO	NO						
L0000843	0	0.10194E-02	489464.0	3860225.0	681.0	5.00	4.19	
4.65	NO	NO						
L0000844	0	0.10194E-02	489464.1	3860234.0	680.3	5.00	4.19	
4.65	NO	NO						
L0000845	0	0.10194E-02	489464.2	3860243.0	679.5	5.00	4.19	
4.65	NO	NO						
L0000846	0	0.10194E-02	489464.3	3860252.0	678.9	5.00	4.19	
4.65	NO	NO						
L0000847	0	0.10194E-02	489464.4	3860261.0	678.6	5.00	4.19	
4.65	NO	NO						
L0000848	0	0.10194E-02	489464.5	3860270.0	678.3	5.00	4.19	
4.65	NO	NO						
L0000849	0	0.10194E-02	489464.5	3860279.0	678.0	5.00	4.19	
4.65	NO	NO						
L0000850	0	0.10194E-02	489464.6	3860288.0	677.4	5.00	4.19	
4.65	NO	NO						
L0000851	0	0.10194E-02	489464.7	3860297.0	676.8	5.00	4.19	
4.65	NO	NO						
L0000852	0	0.10194E-02	489464.8	3860306.0	676.1	5.00	4.19	
4.65	NO	NO						
L0000853	0	0.10194E-02	489464.9	3860315.0	675.7	5.00	4.19	
4.65	NO	NO						
L0000854	0	0.10194E-02	489465.0	3860324.0	675.5	5.00	4.19	
4.65	NO	NO						
L0000855	0	0.10194E-02	489465.1	3860333.0	675.2	5.00	4.19	
4.65	NO	NO						
L0000856	0	0.10194E-02	489465.2	3860342.0	675.0	5.00	4.19	
4.65	NO	NO						
L0000857	0	0.10194E-02	489465.3	3860351.0	674.9	5.00	4.19	
4.65	NO	NO						
L0000858	0	0.10194E-02	489465.3	3860360.0	674.7	5.00	4.19	
4.65	NO	NO						
L0000859	0	0.10194E-02	489465.4	3860369.0	674.6	5.00	4.19	
4.65	NO	NO						
L0000860	0	0.10194E-02	489465.5	3860378.0	674.5	5.00	4.19	
4.65	NO	NO						
L0000861	0	0.10194E-02	489465.6	3860387.0	674.4	5.00	4.19	
4.65	NO	NO						
L0000862	0	0.10194E-02	489465.7	3860396.0	674.3	5.00	4.19	
4.65	NO	NO						
L0000863	0	0.10194E-02	489465.8	3860405.0	674.3	5.00	4.19	
4.65	NO	NO						
L0000864	0	0.10194E-02	489465.9	3860414.0	674.3	5.00	4.19	
4.65	NO	NO						
L0000865	0	0.10194E-02	489466.0	3860423.0	674.3	5.00	4.19	
4.65	NO	NO						

 L0000866   0   0.10194E-02 489466.1 3860432.0   674.3   5.00   4.19
4.65   NO   NO
 L0000867   0   0.10194E-02 489466.2 3860441.0   674.3   5.00   4.19
4.65   NO   NO
 L0000868   0   0.10194E-02 489466.2 3860450.0   674.3   5.00   4.19
4.65   NO   NO
 L0000869   0   0.10194E-02 489466.3 3860459.0   674.3   5.00   4.19
4.65   NO   NO
 L0000870   0   0.10194E-02 489466.4 3860468.0   674.4   5.00   4.19
4.65   NO   NO
 L0000871   0   0.10194E-02 489466.5 3860477.0   674.4   5.00   4.19
4.65   NO   NO
 L0000872   0   0.10194E-02 489466.6 3860486.0   674.4   5.00   4.19
4.65   NO   NO
 L0000873   0   0.10194E-02 489466.7 3860495.0   674.4   5.00   4.19
4.65   NO   NO
 L0000874   0   0.10194E-02 489466.8 3860504.0   674.6   5.00   4.19
4.65   NO   NO
 L0000875   0   0.10194E-02 489466.9 3860513.0   674.8   5.00   4.19
4.65   NO   NO
 L0000876   0   0.10194E-02 489467.0 3860522.0   675.0   5.00   4.19
4.65   NO   NO
 L0000877   0   0.10194E-02 489467.0 3860531.0   675.0   5.00   4.19
4.65   NO   NO
 L0000878   0   0.10194E-02 489467.1 3860540.0   674.8   5.00   4.19
4.65   NO   NO
 L0000879   0   0.10194E-02 489467.2 3860549.0   674.6   5.00   4.19
4.65   NO   NO
 L0000880   0   0.10194E-02 489467.3 3860558.0   674.4   5.00   4.19
4.65   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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L0000881	0	0.10194E-02	489467.4	3860567.0	674.4	5.00	4.19	
4.65	NO		NO					
L0000882	0	0.10194E-02	489467.5	3860576.0	674.4	5.00	4.19	
4.65	NO		NO					
L0000883	0	0.10194E-02	489467.6	3860585.0	674.3	5.00	4.19	
4.65	NO		NO					
L0000884	0	0.10194E-02	489467.7	3860594.0	674.4	5.00	4.19	
4.65	NO		NO					
L0000885	0	0.10194E-02	489467.8	3860603.0	674.5	5.00	4.19	
4.65	NO		NO					
L0000886	0	0.10194E-02	489467.8	3860612.0	674.6	5.00	4.19	
4.65	NO		NO					
L0000887	0	0.10194E-02	489467.9	3860621.0	674.8	5.00	4.19	
4.65	NO		NO					
L0000888	0	0.10194E-02	489468.0	3860630.0	675.5	5.00	4.19	
4.65	NO		NO					
L0000889	0	0.10194E-02	489468.1	3860639.0	676.3	5.00	4.19	
4.65	NO		NO					
L0000890	0	0.10194E-02	489468.2	3860648.0	677.0	5.00	4.19	
4.65	NO		NO					
L0000891	0	0.10194E-02	489468.3	3860657.0	678.0	5.00	4.19	
4.65	NO		NO					
L0000892	0	0.10194E-02	489468.4	3860666.0	679.0	5.00	4.19	
4.65	NO		NO					
L0000893	0	0.10194E-02	489468.5	3860675.0	680.0	5.00	4.19	
4.65	NO		NO					
L0000894	0	0.10194E-02	489468.6	3860684.0	680.6	5.00	4.19	
4.65	NO		NO					
L0000895	0	0.10194E-02	489468.6	3860693.0	680.1	5.00	4.19	
4.65	NO		NO					
L0000896	0	0.10194E-02	489468.7	3860702.0	679.7	5.00	4.19	
4.65	NO		NO					
L0000897	0	0.10194E-02	489468.8	3860711.0	679.3	5.00	4.19	
4.65	NO		NO					
L0000898	0	0.10194E-02	489468.9	3860720.0	679.1	5.00	4.19	
4.65	NO		NO					
L0000899	0	0.10194E-02	489469.0	3860729.0	679.0	5.00	4.19	
4.65	NO		NO					
L0000900	0	0.10194E-02	489469.1	3860738.0	678.9	5.00	4.19	
4.65	NO		NO					
L0000901	0	0.10194E-02	489469.2	3860747.0	678.9	5.00	4.19	
4.65	NO		NO					
L0000902	0	0.10194E-02	489469.3	3860756.0	678.9	5.00	4.19	
4.65	NO		NO					
L0000903	0	0.10194E-02	489469.4	3860765.0	678.9	5.00	4.19	
4.65	NO		NO					
L0000904	0	0.10194E-02	489469.4	3860774.0	678.9	5.00	4.19	
4.65	NO		NO					
L0000905	0	0.10194E-02	489469.5	3860783.0	678.7	5.00	4.19	
4.65	NO		NO					

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 L0000906         0   0.10194E-02  489469.6 3860792.0   678.4     5.00     4.19
4.65     NO                    NO
 L0000907         0   0.10194E-02  489463.2 3860794.1   678.2     5.00     4.19
4.65     NO                    NO
 L0000908         0   0.10194E-02  489454.2 3860793.5   677.9     5.00     4.19
4.65     NO                    NO
 L0000909         0   0.10194E-02  489445.2 3860793.0   677.7     5.00     4.19
4.65     NO                    NO
 L0000910         0   0.10194E-02  489436.2 3860792.4   677.4     5.00     4.19
4.65     NO                    NO
 L0000911         0   0.10194E-02  489427.2 3860791.8   677.1     5.00     4.19
4.65     NO                    NO
 L0000912         0   0.10194E-02  489418.3 3860791.3   676.8     5.00     4.19
4.65     NO                    NO
 L0000913         0   0.10194E-02  489409.3 3860790.7   676.5     5.00     4.19
4.65     NO                    NO
 L0000914         0   0.10194E-02  489400.3 3860790.1   676.1     5.00     4.19
4.65     NO                    NO
 L0000915         0   0.10194E-02  489399.6 3860781.7   675.9     5.00     4.19
4.65     NO                    NO
 L0000916         0   0.10194E-02  489399.5 3860772.7   675.7     5.00     4.19
4.65     NO                    NO
 L0000917         0   0.10194E-02  489399.4 3860763.7   675.6     5.00     4.19
4.65     NO                    NO
 L0000918         0   0.10194E-02  489399.3 3860754.7   675.6     5.00     4.19
4.65     NO                    NO
 L0000919         0   0.10194E-02  489399.2 3860745.7   675.5     5.00     4.19
4.65     NO                    NO
 L0000920         0   0.10194E-02  489399.1 3860736.7   675.7     5.00     4.19
4.65     NO                    NO
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        15:28:40

                                PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000921         0   0.10194E-02  489399.0 3860727.7   676.0     5.00     4.19
4.65     NO                    NO
 L0000922         0   0.10194E-02  489398.9 3860718.7   676.3     5.00     4.19
4.65     NO                    NO
 L0000923         0   0.10194E-02  489398.8 3860709.7   676.5     5.00     4.19
4.65     NO                    NO
 L0000924         0   0.10194E-02  489398.7 3860700.7   676.7     5.00     4.19
4.65     NO                    NO
 L0000925         0   0.10194E-02  489398.7 3860691.7   676.9     5.00     4.19
4.65     NO                    NO
 L0000926         0   0.10194E-02  489398.6 3860682.7   677.1     5.00     4.19
4.65     NO                    NO
 L0000927         0   0.10194E-02  489398.5 3860673.7   676.8     5.00     4.19
4.65     NO                    NO
 L0000928         0   0.10194E-02  489398.4 3860664.7   676.5     5.00     4.19
4.65     NO                    NO
 L0000929         0   0.10194E-02  489398.3 3860655.7   676.1     5.00     4.19
4.65     NO                    NO
 L0000930         0   0.10194E-02  489398.2 3860646.7   675.7     5.00     4.19
4.65     NO                    NO
 L0000931         0   0.10194E-02  489398.1 3860637.7   675.1     5.00     4.19
4.65     NO                    NO
 L0000932         0   0.10194E-02  489398.0 3860628.7   674.6     5.00     4.19
4.65     NO                    NO
 L0000933         0   0.10194E-02  489397.9 3860619.7   674.0     5.00     4.19
4.65     NO                    NO
 L0000934         0   0.10194E-02  489397.8 3860610.7   673.9     5.00     4.19
4.65     NO                    NO
 L0000935         0   0.10194E-02  489397.7 3860601.7   673.7     5.00     4.19
4.65     NO                    NO
 L0000936         0   0.10194E-02  489397.6 3860592.7   673.6     5.00     4.19
4.65     NO                    NO
 L0000937         0   0.10194E-02  489397.5 3860583.7   673.5     5.00     4.19
4.65     NO                    NO
 L0000938         0   0.10194E-02  489397.4 3860574.7   673.6     5.00     4.19
4.65     NO                    NO
 L0000939         0   0.10194E-02  489397.3 3860565.7   673.6     5.00     4.19
4.65     NO                    NO
 L0000940         0   0.10194E-02  489397.2 3860556.7   673.6     5.00     4.19
4.65     NO                    NO
 L0000941         0   0.10194E-02  489397.1 3860547.7   673.7     5.00     4.19
4.65     NO                    NO
 L0000942         0   0.10194E-02  489397.0 3860538.7   673.7     5.00     4.19
4.65     NO                    NO
 L0000943         0   0.10194E-02  489396.9 3860529.7   673.8     5.00     4.19
4.65     NO                    NO
 L0000944         0   0.10194E-02  489396.8 3860520.7   673.9     5.00     4.19
4.65     NO                    NO
 L0000945         0   0.10194E-02  489396.7 3860511.7   673.9     5.00     4.19
4.65     NO                    NO
```

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 L0000946         0   0.10194E-02  489396.6 3860502.7   674.0     5.00     4.19
4.65     NO                    NO
 L0000947         0   0.10194E-02  489396.5 3860493.7   674.0     5.00     4.19
4.65     NO                    NO
 L0000948         0   0.10194E-02  489396.4 3860484.7   674.0     5.00     4.19
4.65     NO                    NO
 L0000949         0   0.10194E-02  489396.3 3860475.7   674.0     5.00     4.19
4.65     NO                    NO
 L0000950         0   0.10194E-02  489396.2 3860466.7   674.0     5.00     4.19
4.65     NO                    NO
 L0000951         0   0.10194E-02  489396.1 3860457.7   674.2     5.00     4.19
4.65     NO                    NO
 L0000952         0   0.10194E-02  489396.0 3860448.7   674.4     5.00     4.19
4.65     NO                    NO
 L0000953         0   0.10194E-02  489395.9 3860439.7   674.6     5.00     4.19
4.65     NO                    NO
 L0000954         0   0.10194E-02  489395.8 3860430.7   674.7     5.00     4.19
4.65     NO                    NO
 L0000955         0   0.10194E-02  489395.7 3860421.7   674.8     5.00     4.19
4.65     NO                    NO
 L0000956         0   0.10194E-02  489395.6 3860412.7   674.8     5.00     4.19
4.65     NO                    NO
 L0000957         0   0.10194E-02  489395.5 3860403.7   674.9     5.00     4.19
4.65     NO                    NO
 L0000958         0   0.10194E-02  489395.4 3860394.7   674.9     5.00     4.19
4.65     NO                    NO
 L0000959         0   0.10194E-02  489395.3 3860385.7   674.9     5.00     4.19
4.65     NO                    NO
 L0000960         0   0.10194E-02  489395.2 3860376.7   674.9     5.00     4.19
4.65     NO                    NO
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        15:28:40

                                PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000961         0   0.10194E-02  489395.1 3860367.7   674.9     5.00     4.19
4.65     NO                    NO
 L0000962         0   0.10194E-02  489395.0 3860358.7   674.9     5.00     4.19
4.65     NO                    NO
 L0000963         0   0.10194E-02  489394.9 3860349.7   675.0     5.00     4.19
4.65     NO                    NO
 L0000964         0   0.10194E-02  489394.8 3860340.7   675.0     5.00     4.19
4.65     NO                    NO
 L0000965         0   0.10194E-02  489394.7 3860331.7   675.1     5.00     4.19
4.65     NO                    NO
 L0000966         0   0.10194E-02  489394.6 3860322.7   675.2     5.00     4.19
4.65     NO                    NO
 L0000967         0   0.10194E-02  489394.5 3860313.7   675.4     5.00     4.19
4.65     NO                    NO
 L0000968         0   0.10194E-02  489394.4 3860304.7   675.7     5.00     4.19
4.65     NO                    NO
 L0000969         0   0.10194E-02  489394.3 3860295.7   676.1     5.00     4.19
4.65     NO                    NO
 L0000970         0   0.10194E-02  489394.2 3860286.7   676.5     5.00     4.19
4.65     NO                    NO
 L0000971         0   0.10194E-02  489394.2 3860277.7   677.0     5.00     4.19
4.65     NO                    NO
 L0000972         0   0.10194E-02  489394.1 3860268.7   677.4     5.00     4.19
4.65     NO                    NO
 L0000973         0   0.10194E-02  489394.0 3860259.7   677.9     5.00     4.19
4.65     NO                    NO
 L0000974         0   0.10194E-02  489393.9 3860250.7   678.3     5.00     4.19
4.65     NO                    NO
 L0000975         0   0.10194E-02  489393.8 3860241.7   678.6     5.00     4.19
4.65     NO                    NO
 L0000976         0   0.10194E-02  489393.7 3860232.7   678.8     5.00     4.19
4.65     NO                    NO
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4.65     NO                    NO
 L0000978         0   0.10194E-02  489393.5 3860214.7   679.4     5.00     4.19
4.65     NO                    NO
 L0000979         0   0.10194E-02  489393.4 3860205.7   679.7     5.00     4.19
4.65     NO                    NO
 L0000980         0   0.10194E-02  489393.3 3860196.7   680.1     5.00     4.19
4.65     NO                    NO
 L0000981         0   0.10194E-02  489393.2 3860187.7   680.5     5.00     4.19
4.65     NO                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                        ***       15:28:40

                                  PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
	L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
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	L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,
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	L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,
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L0000158   , L0000159   , L0000160   ,

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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L0000318   , L0000319   , L0000320   ,

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0000321 , L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 ,
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0000505 , L0000506 , L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 ,
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L0000638    , L0000639    , L0000640    ,
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0000950    , L0000951    , L0000952    ,

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↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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L0000961 , L0000962 , L0000963 , L0000964 , L0000965 ,
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L0000974 , L0000975 , L0000976 ,

L0000977 , L0000978 , L0000979 , L0000980 , L0000981 ,

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

489228.5, 489247.8, 489267.1, 489286.4, 489305.7, 489325.0, 489344.3,
489363.6, 489382.9, 489402.2,
489421.5, 489440.8, 489460.1, 489479.4, 489498.7, 489518.0, 489537.3,
489556.6, 489575.9, 489595.2,
489614.5,

*** Y-COORDINATES OF GRID ***
(METERS)

3859568.7, 3859588.1, 3859607.5, 3859626.9, 3859646.4, 3859665.8, 3859685.2,
3859704.6, 3859724.0, 3859743.4,
3859762.9, 3859782.3, 3859801.7, 3859821.1, 3859840.5, 3859860.0, 3859879.4,
3859898.8, 3859918.2, 3859937.6,
3859957.1,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)														
	489228.46	489247.76	489267.06	489286.36	489305.66	489324.96	489344.26	489363.56	489382.86						
3859957.07	679.50	680.40	680.50	680.60	680.80	681.10	681.40	681.90	682.40						
3859937.65	679.20	680.20	680.30	680.40	680.60	680.90	681.10	681.40	681.90						
3859918.23	679.30	680.20	680.40	680.60	680.70	680.90	681.00	681.40	681.90						
3859898.81	679.20	680.00	680.10	680.30	680.40	680.50	680.70	681.10	681.50						
3859879.39	679.10	679.80	679.80	679.80	679.90	680.00	680.30	680.60	680.90						
3859859.97	679.00	679.60	679.70	679.80	679.90	680.00	680.20	680.40	680.70						
3859840.55	679.00	679.60	679.80	679.90	680.00	680.10	680.20	680.30	680.50						
3859821.13	679.20	679.70	680.00	680.20	680.20	680.20	680.40	680.50	680.50						
3859801.71	679.30	679.90	680.00	680.20	680.30	680.00	680.30	680.40	680.40						
3859782.29	679.40	680.00	680.10	680.30	680.40	680.00	680.30	680.40	680.40						
3859762.87	679.40	680.00	680.20	680.40	680.60	680.50	680.50	680.70	680.90						
3859743.45	679.40	680.00	680.20	680.40	680.60	680.60	680.70	680.80	680.90						
3859724.03	679.50	680.00	680.20	680.40	680.60	680.60	680.80	680.80	680.80						
3859704.61	679.70	680.20	680.30	680.40	680.50	680.50	680.60	680.70	680.80						
3859685.19	679.80	680.30	680.30	680.30	680.30	680.40	680.50	680.70	680.90						
3859665.77	679.90	680.20	680.10	680.00	680.00	680.20	680.50	680.80	681.10						
3859646.35	680.00	680.20	680.40	680.40	680.40	680.60	680.70	680.90	681.10						
3859626.93	680.10	680.30	680.60	680.60	680.70	680.90	680.90	681.00	681.20						
3859607.51	680.30	680.40	680.60	680.70	680.80	680.90	681.00	681.10	681.20						
3859588.09	680.40	680.70	680.90	681.00	681.10	681.20	681.20	681.30	681.50						
3859568.67	680.60	681.00	681.10	681.20	681.30	681.50	681.50	681.60	681.70						

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART
***

                                                * ELEVATION HEIGHTS IN METERS *

    Y-COORD | X-COORD (METERS)
    (METERS) | 489402.16   489421.46   489440.76   489460.06   489479.36
489498.66   489517.96   489537.26   489556.56
 -
- -

  3859957.07 | 683.20   683.80   684.60   685.40   686.00
  686.80   687.20   687.30   687.30
  3859937.65 | 682.60   683.00   683.70   684.30   684.50
  684.80   684.80   684.90   685.00
  3859918.23 | 682.50   683.30   683.90   684.20   684.30
  684.50   684.50   684.60   684.90
  3859898.81 | 682.00   682.80   683.50   684.00   684.40
  684.20   684.10   684.30   684.70
  3859879.39 | 681.30   681.70   682.70   683.80   684.60
  683.80   683.60   683.90   684.50
  3859859.97 | 681.10   681.40   681.90   682.60   683.20
  683.00   683.00   683.30   683.70
  3859840.55 | 680.90   681.10   681.40   681.80   682.30
  682.50   682.70   682.90   683.10
  3859821.13 | 680.70   681.10   681.40   681.70   681.90
  682.40   682.70   682.90   682.90
  3859801.71 | 680.40   680.70   681.00   681.40   681.80
  682.10   682.50   682.70   682.90
  3859782.29 | 680.40   680.50   680.70   681.10   681.70
  682.00   682.30   682.60   682.80
  3859762.87 | 680.80   680.80   680.70   680.70   681.20
  682.20   682.40   682.40   682.60
  3859743.45 | 681.00   681.00   680.70   680.70   681.10
  682.30   682.30   682.20   682.50
  3859724.03 | 681.00   681.10   680.90   680.80   681.20
  682.20   682.10   682.10   682.40
  3859704.61 | 680.80   680.90   680.80   680.80   681.10
  682.10   682.00   682.00   682.40
  3859685.19 | 680.90   680.90   680.80   680.90   681.20
  682.00   682.00   681.90   682.30
  3859665.77 | 681.20   681.20   681.10   681.00   681.30
  682.10   681.90   681.90   682.20

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	489575.86	489595.16	489614.46
3859957.07	687.70	688.80	690.10
3859937.65	685.50	686.30	687.60
3859918.23	685.20	685.60	686.50
3859898.81	684.80	685.00	685.70
3859879.39	684.10	684.50	684.90
3859859.97	683.40	683.90	684.30
3859840.55	683.00	683.40	683.70
3859821.13	683.00	683.10	683.20
3859801.71	682.80	682.90	682.90
3859782.29	682.50	682.70	682.60
3859762.87	682.60	682.70	682.40
3859743.45	682.60	682.60	682.30
3859724.03	682.50	682.50	682.20
3859704.61	682.40	682.40	682.10
3859685.19	682.30	682.40	682.10
3859665.77	682.20	682.30	682.20
3859646.35	682.20	682.30	682.20
3859626.93	682.10	682.20	682.30
3859607.51	681.70	682.00	682.30
3859588.09	681.80	682.00	682.30
3859568.67	682.00	682.10	682.40

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART
***

                                          * HILL HEIGHT SCALES IN METERS *

    Y-COORD | X-COORD (METERS)
    (METERS) | 489228.46   489247.76   489267.06   489286.36   489305.66
489324.96   489344.26   489363.56   489382.86
 -
- -

  3859957.07 | 679.50   680.40   680.50   680.60   680.80
  681.10   681.40   681.90   682.40
  3859937.65 | 679.20   680.20   680.30   680.40   680.60
  680.90   681.10   681.40   681.90
  3859918.23 | 679.30   680.20   680.40   680.60   680.70
  680.90   681.00   681.40   681.90
  3859898.81 | 679.20   680.00   680.10   680.30   680.40
  680.50   680.70   681.10   681.50
  3859879.39 | 679.10   679.80   679.80   679.80   679.90
  680.00   680.30   680.60   680.90
  3859859.97 | 679.00   679.60   679.70   679.80   679.90
  680.00   680.20   680.40   680.70
  3859840.55 | 679.00   679.60   679.80   679.90   680.00
  680.10   680.20   680.30   680.50
  3859821.13 | 679.20   679.70   680.00   680.20   680.20
  680.20   680.40   680.50   680.50
  3859801.71 | 679.30   679.90   680.00   680.20   680.30
  680.00   680.30   680.40   680.40
  3859782.29 | 679.40   680.00   680.10   680.30   680.40
  680.00   680.30   680.40   680.40
  3859762.87 | 679.40   680.00   680.20   680.40   680.60
  680.50   680.50   680.70   680.90
  3859743.45 | 679.40   680.00   680.20   680.40   680.60
  680.60   680.70   680.80   680.90
  3859724.03 | 679.50   680.00   680.20   680.40   680.60
  680.60   680.80   680.80   680.80
  3859704.61 | 679.70   680.20   680.30   680.40   680.50
  680.50   680.60   680.70   680.80
  3859685.19 | 679.80   680.30   680.30   680.30   680.30
  680.40   680.50   680.70   680.90
  3859665.77 | 679.90   680.20   680.10   680.00   680.00
  680.20   680.50   680.80   681.10

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) | | |

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	489575.86	489595.16	489614.46
3859957.07	691.90	693.30	693.30
3859937.65	693.30	693.30	693.30
3859918.23	693.30	693.30	693.30
3859898.81	684.80	693.30	693.30
3859879.39	684.10	684.50	684.90
3859859.97	683.40	683.90	684.30
3859840.55	683.00	683.40	683.70
3859821.13	683.00	683.10	683.20
3859801.71	682.80	682.90	682.90
3859782.29	682.50	682.70	682.60
3859762.87	682.60	682.70	682.40

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(488803.0, 3861310.1, 668.5, 668.5, 0.0); (488863.6, 3861309.3, 667.4, 667.4, 0.0);
(488847.6, 3861279.8, 667.5, 667.5, 0.0); (488850.8, 3861262.2, 667.5, 667.5, 0.0);
(488810.1, 3861261.4, 668.4, 668.4, 0.0); (488810.9, 3861289.4, 668.1, 668.1, 0.0);
(488819.7, 3861306.9, 667.8, 667.8, 0.0); (488816.5, 3861235.9, 668.3, 670.7, 0.0);
(488841.2, 3861126.7, 671.1, 679.9, 0.0); (488879.5, 3861121.9, 670.1, 679.9, 0.0);
(488913.8, 3861121.1, 669.6, 679.9, 0.0); (488925.8, 3861092.4, 670.8, 679.9, 0.0);
(488920.0, 3861067.5, 673.1, 677.0, 0.0); (488996.7, 3861113.9, 668.7, 675.7, 0.0);
(488974.0, 3861097.8, 670.7, 675.5, 0.0); (488931.6, 3860976.6, 670.9, 670.9, 0.0);
(488935.7, 3861034.7, 673.6, 673.6, 0.0); (488959.9, 3861061.4, 673.6, 675.5, 0.0);
(489165.8, 3861208.8, 667.1, 667.1, 0.0); (489317.7, 3861109.3, 668.5, 668.5, 0.0);
(489385.9, 3861014.8, 668.3, 668.3, 0.0); (489372.2, 3861112.7, 668.7, 668.7, 0.0);
(489420.8, 3861106.7, 668.5, 668.5, 0.0); (489436.1, 3861037.7, 667.8, 667.8, 0.0);
(489488.1, 3861036.9, 668.3, 668.3, 0.0); (489473.6, 3861111.0, 668.5, 668.5, 0.0);
(489431.0, 3861167.2, 669.1, 669.1, 0.0); (489662.7, 3860915.9, 668.1, 668.1, 0.0);

```
     ( 489644.8, 3861076.1,     667.4,     667.4,       0.0);         ( 489659.3,
3861099.1,     667.0,     667.0,       0.0);
     ( 489735.9, 3861020.7,     667.4,     667.4,       0.0);         ( 489700.1,
3861029.2,     667.6,     667.6,       0.0);
     ( 489708.6, 3861062.4,     667.4,     667.4,       0.0);         ( 489779.3,
3861099.1,     667.0,     667.0,       0.0);
     ( 489836.0, 3859138.6,     686.4,     686.4,       0.0);         ( 489886.0,
3859138.6,     686.9,     686.9,       0.0);
     ( 489936.0, 3859138.6,     687.2,     687.2,       0.0);         ( 489986.0,
3859138.6,     688.3,     688.3,       0.0);
     ( 490036.0, 3859138.6,     689.3,     689.3,       0.0);         ( 490086.0,
3859138.6,     689.7,     689.7,       0.0);
     ( 490136.0, 3859138.6,     689.4,     689.4,       0.0);         ( 490186.0,
3859138.6,     689.6,     689.6,       0.0);
     ( 490236.0, 3859138.6,     690.3,     690.3,       0.0);         ( 490286.0,
3859138.6,     692.2,     692.2,       0.0);
     ( 490336.0, 3859138.6,     694.5,     694.5,       0.0);         ( 490386.0,
3859138.6,     697.4,     697.4,       0.0);
     ( 490436.0, 3859138.6,     698.5,     698.5,       0.0);         ( 490486.0,
3859138.6,     700.5,     700.5,       0.0);
     ( 490536.0, 3859138.6,     703.3,     703.3,       0.0);         ( 490586.0,
3859138.6,     705.1,     705.1,       0.0);
     ( 490636.0, 3859138.6,     707.3,     707.3,       0.0);         ( 490686.0,
3859138.6,     709.3,     709.3,       0.0);
     ( 490736.0, 3859138.6,     710.6,     710.6,       0.0);         ( 490786.0,
3859138.6,     712.1,     712.1,       0.0);
     ( 490836.0, 3859138.6,     714.1,     714.1,       0.0);         ( 490886.0,
3859138.6,     715.9,     715.9,       0.0);
     ( 489836.0, 3859188.6,     686.0,     686.0,       0.0);         ( 489886.0,
3859188.6,     686.6,     686.6,       0.0);
     ( 489936.0, 3859188.6,     686.8,     686.8,       0.0);         ( 489986.0,
3859188.6,     688.0,     688.0,       0.0);
     ( 490036.0, 3859188.6,     688.4,     688.4,       0.0);         ( 490086.0,
3859188.6,     687.9,     687.9,       0.0);
     ( 490136.0, 3859188.6,     688.4,     688.4,       0.0);         ( 490186.0,
3859188.6,     689.3,     689.3,       0.0);
     ( 490236.0, 3859188.6,     690.9,     690.9,       0.0);         ( 490286.0,
3859188.6,     692.4,     692.4,       0.0);
     ( 490336.0, 3859188.6,     693.8,     693.8,       0.0);         ( 490386.0,
3859188.6,     695.8,     695.8,       0.0);
     ( 490436.0, 3859188.6,     698.1,     698.1,       0.0);         ( 490486.0,
3859188.6,     701.1,     701.1,       0.0);
     ( 490536.0, 3859188.6,     703.1,     703.1,       0.0);         ( 490586.0,
3859188.6,     704.5,     704.5,       0.0);
     ( 490636.0, 3859188.6,     707.1,     707.1,       0.0);         ( 490686.0,
3859188.6,     710.3,     710.3,       0.0);
     ( 490736.0, 3859188.6,     712.1,     713.8,       0.0);         ( 490786.0,
3859188.6,     714.3,     714.3,       0.0);
     ( 490836.0, 3859188.6,     714.2,     714.2,       0.0);         ( 490886.0,
3859188.6,     715.8,     715.8,       0.0);
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(489836.0, 3859238.6, 686.0, 686.0, 0.0); (489886.0, 3859238.6, 686.2, 686.2, 0.0);
(489936.0, 3859238.6, 686.7, 686.7, 0.0); (489986.0, 3859238.6, 688.4, 688.4, 0.0);
(490036.0, 3859238.6, 688.2, 688.2, 0.0); (490086.0, 3859238.6, 687.4, 687.4, 0.0);
(490136.0, 3859238.6, 687.4, 687.4, 0.0); (490186.0, 3859238.6, 688.0, 688.0, 0.0);
(490236.0, 3859238.6, 689.9, 689.9, 0.0); (490286.0, 3859238.6, 692.0, 692.0, 0.0);
(490336.0, 3859238.6, 693.9, 693.9, 0.0); (490386.0, 3859238.6, 695.4, 695.4, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(490436.0, 3859238.6, 697.2, 697.2, 0.0); (490486.0, 3859238.6, 698.4, 702.2, 0.0);
(490536.0, 3859238.6, 701.3, 701.3, 0.0); (490586.0, 3859238.6, 703.8, 703.8, 0.0);
(490636.0, 3859238.6, 705.9, 707.1, 0.0); (490686.0, 3859238.6, 707.2, 707.2, 0.0);
(490736.0, 3859238.6, 708.7, 714.2, 0.0); (490786.0, 3859238.6, 710.5, 710.5, 0.0);
(490836.0, 3859238.6, 711.6, 711.6, 0.0); (490886.0, 3859238.6, 713.1, 714.7, 0.0);
(489836.0, 3859288.6, 685.6, 685.6, 0.0); (489886.0, 3859288.6, 686.0, 686.0, 0.0);
(489936.0, 3859288.6, 686.6, 686.6, 0.0); (489986.0, 3859288.6, 688.2, 688.2, 0.0);
(490036.0, 3859288.6, 687.6, 687.6, 0.0); (490086.0, 3859288.6, 687.3, 687.3, 0.0);
(490136.0, 3859288.6, 687.1, 687.1, 0.0); (490186.0, 3859288.6, 687.7, 687.7, 0.0);
(490236.0, 3859288.6, 689.3, 689.3, 0.0); (490286.0, 3859288.6, 690.6, 690.6, 0.0);
(490336.0, 3859288.6, 692.8, 692.8, 0.0); (490386.0, 3859288.6, 694.9, 694.9, 0.0);
(490436.0, 3859288.6, 697.4, 697.4, 0.0); (490486.0, 3859288.6, 698.0, 698.0, 0.0);
(490536.0, 3859288.6, 698.2, 698.2, 0.0); (490586.0, 3859288.6, 700.5, 704.3, 0.0);

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     ( 490636.0, 3859288.6,     701.5,     704.9,       0.0);         ( 490686.0,
3859288.6,     703.7,     703.7,       0.0);
     ( 490736.0, 3859288.6,     706.4,     706.4,       0.0);         ( 490786.0,
3859288.6,     707.6,     707.6,       0.0);
     ( 490836.0, 3859288.6,     708.9,     708.9,       0.0);         ( 490886.0,
3859288.6,     710.5,     710.5,       0.0);
     ( 489836.0, 3859338.6,     685.0,     685.0,       0.0);         ( 489886.0,
3859338.6,     685.1,     685.1,       0.0);
     ( 489936.0, 3859338.6,     686.5,     686.5,       0.0);         ( 489986.0,
3859338.6,     686.7,     686.7,       0.0);
     ( 490036.0, 3859338.6,     686.4,     686.4,       0.0);         ( 490086.0,
3859338.6,     685.9,     685.9,       0.0);
     ( 490136.0, 3859338.6,     686.2,     686.2,       0.0);         ( 490186.0,
3859338.6,     686.9,     686.9,       0.0);
     ( 490236.0, 3859338.6,     687.9,     687.9,       0.0);         ( 490286.0,
3859338.6,     689.4,     689.4,       0.0);
     ( 490336.0, 3859338.6,     691.5,     691.5,       0.0);         ( 490386.0,
3859338.6,     693.0,     693.0,       0.0);
     ( 490436.0, 3859338.6,     694.3,     694.3,       0.0);         ( 490486.0,
3859338.6,     695.6,     697.5,       0.0);
     ( 490536.0, 3859338.6,     696.9,     696.9,       0.0);         ( 490586.0,
3859338.6,     698.3,     698.3,       0.0);
     ( 490636.0, 3859338.6,     699.3,     699.3,       0.0);         ( 490686.0,
3859338.6,     701.4,     701.4,       0.0);
     ( 490736.0, 3859338.6,     703.6,     703.6,       0.0);         ( 490786.0,
3859338.6,     705.2,     705.2,       0.0);
     ( 490836.0, 3859338.6,     705.5,     705.5,       0.0);         ( 490886.0,
3859338.6,     707.2,     707.2,       0.0);
     ( 489836.0, 3859388.6,     685.0,     685.0,       0.0);         ( 489886.0,
3859388.6,     685.2,     685.2,       0.0);
     ( 489936.0, 3859388.6,     684.9,     684.9,       0.0);         ( 489986.0,
3859388.6,     685.4,     685.4,       0.0);
     ( 490036.0, 3859388.6,     685.1,     685.1,       0.0);         ( 490086.0,
3859388.6,     684.6,     684.6,       0.0);
     ( 490136.0, 3859388.6,     685.0,     685.0,       0.0);         ( 490186.0,
3859388.6,     685.8,     685.8,       0.0);
     ( 490236.0, 3859388.6,     686.9,     686.9,       0.0);         ( 490286.0,
3859388.6,     687.9,     687.9,       0.0);
     ( 490336.0, 3859388.6,     689.5,     689.5,       0.0);         ( 490386.0,
3859388.6,     690.7,     690.7,       0.0);
     ( 490436.0, 3859388.6,     691.5,     691.5,       0.0);         ( 490486.0,
3859388.6,     692.7,     692.7,       0.0);
     ( 490536.0, 3859388.6,     694.1,     694.1,       0.0);         ( 490586.0,
3859388.6,     695.0,     698.5,       0.0);
     ( 490636.0, 3859388.6,     696.9,     696.9,       0.0);         ( 490686.0,
3859388.6,     699.9,     699.9,       0.0);
     ( 490736.0, 3859388.6,     703.1,     703.1,       0.0);         ( 490786.0,
3859388.6,     703.4,     703.4,       0.0);
     ( 490836.0, 3859388.6,     702.6,     702.6,       0.0);         ( 490886.0,
3859388.6,     703.4,     703.4,       0.0);
```

```
     ( 489836.0, 3859438.6,     683.5,     683.5,       0.0);         ( 489886.0,
3859438.6,     684.0,     684.0,       0.0);
     ( 489936.0, 3859438.6,     684.1,     684.1,       0.0);         ( 489986.0,
3859438.6,     684.0,     684.0,       0.0);
     ( 490036.0, 3859438.6,     683.7,     683.7,       0.0);         ( 490086.0,
3859438.6,     684.0,     684.0,       0.0);
     ( 490136.0, 3859438.6,     684.1,     684.1,       0.0);         ( 490186.0,
3859438.6,     684.8,     684.8,       0.0);
     ( 490236.0, 3859438.6,     685.7,     685.7,       0.0);         ( 490286.0,
3859438.6,     686.7,     686.7,       0.0);
     ( 490336.0, 3859438.6,     687.7,     687.7,       0.0);         ( 490386.0,
3859438.6,     688.7,     688.7,       0.0);
     ( 490436.0, 3859438.6,     689.8,     689.8,       0.0);         ( 490486.0,
3859438.6,     691.0,     691.0,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                   PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 490536.0, 3859438.6,     692.1,     692.1,       0.0);         ( 490586.0,
3859438.6,     693.3,     693.3,       0.0);
     ( 490636.0, 3859438.6,     694.9,     694.9,       0.0);         ( 490686.0,
3859438.6,     696.2,     702.6,       0.0);
     ( 490736.0, 3859438.6,     697.4,     704.3,       0.0);         ( 490786.0,
3859438.6,     699.7,     699.7,       0.0);
     ( 490836.0, 3859438.6,     700.3,     700.3,       0.0);         ( 490886.0,
3859438.6,     700.8,     700.8,       0.0);
     ( 490086.0, 3859488.6,     682.9,     682.9,       0.0);         ( 490136.0,
3859488.6,     683.3,     683.3,       0.0);
     ( 490186.0, 3859488.6,     683.6,     683.6,       0.0);         ( 490236.0,
3859488.6,     684.3,     684.3,       0.0);
     ( 490286.0, 3859488.6,     685.4,     685.4,       0.0);         ( 490336.0,
3859488.6,     685.9,     685.9,       0.0);
     ( 490386.0, 3859488.6,     687.1,     687.1,       0.0);         ( 490436.0,
3859488.6,     688.0,     688.0,       0.0);
     ( 490486.0, 3859488.6,     689.1,     689.1,       0.0);         ( 490536.0,
3859488.6,     690.1,     690.1,       0.0);
     ( 490586.0, 3859488.6,     691.6,     691.6,       0.0);         ( 490636.0,
3859488.6,     692.8,     692.8,       0.0);
     ( 490686.0, 3859488.6,     693.9,     693.9,       0.0);         ( 490736.0,
3859488.6,     695.6,     695.6,       0.0);
     ( 490786.0, 3859488.6,     696.9,     696.9,       0.0);         ( 490836.0,
3859488.6,     697.8,     697.8,       0.0);
```

```
     ( 490886.0, 3859488.6,     698.8,     698.8,       0.0);         ( 490086.0,
3859538.6,     682.1,     682.1,       0.0);
     ( 490136.0, 3859538.6,     682.3,     682.3,       0.0);         ( 490186.0,
3859538.6,     682.6,     682.6,       0.0);
     ( 490236.0, 3859538.6,     682.7,     682.7,       0.0);         ( 490286.0,
3859538.6,     683.2,     683.2,       0.0);
     ( 490336.0, 3859538.6,     684.3,     684.3,       0.0);         ( 490386.0,
3859538.6,     685.3,     685.3,       0.0);
     ( 490436.0, 3859538.6,     686.3,     686.3,       0.0);         ( 490486.0,
3859538.6,     687.3,     687.3,       0.0);
     ( 490536.0, 3859538.6,     688.3,     688.3,       0.0);         ( 490586.0,
3859538.6,     689.6,     689.6,       0.0);
     ( 490636.0, 3859538.6,     690.8,     690.8,       0.0);         ( 490686.0,
3859538.6,     691.9,     691.9,       0.0);
     ( 490736.0, 3859538.6,     693.6,     693.6,       0.0);         ( 490786.0,
3859538.6,     694.8,     694.8,       0.0);
     ( 490836.0, 3859538.6,     695.9,     695.9,       0.0);         ( 490886.0,
3859538.6,     697.8,     697.8,       0.0);
     ( 490136.0, 3859588.6,     681.1,     681.1,       0.0);         ( 490186.0,
3859588.6,     681.8,     681.8,       0.0);
     ( 490236.0, 3859588.6,     681.7,     681.7,       0.0);         ( 490286.0,
3859588.6,     681.9,     681.9,       0.0);
     ( 490336.0, 3859588.6,     682.9,     682.9,       0.0);         ( 490386.0,
3859588.6,     683.3,     683.3,       0.0);
     ( 490436.0, 3859588.6,     684.2,     684.2,       0.0);         ( 490486.0,
3859588.6,     685.3,     685.3,       0.0);
     ( 490536.0, 3859588.6,     686.5,     686.5,       0.0);         ( 490586.0,
3859588.6,     687.6,     687.6,       0.0);
     ( 490636.0, 3859588.6,     689.2,     689.2,       0.0);         ( 490686.0,
3859588.6,     690.3,     690.3,       0.0);
     ( 490736.0, 3859588.6,     691.9,     691.9,       0.0);         ( 490786.0,
3859588.6,     693.4,     693.4,       0.0);
     ( 490836.0, 3859588.6,     694.5,     694.5,       0.0);         ( 490886.0,
3859588.6,     695.8,     695.8,       0.0);
     ( 490136.0, 3859638.6,     682.6,     683.3,       0.0);         ( 490186.0,
3859638.6,     680.3,     682.7,       0.0);
     ( 490236.0, 3859638.6,     681.0,     681.0,       0.0);         ( 490286.0,
3859638.6,     680.6,     680.6,       0.0);
     ( 490336.0, 3859638.6,     681.2,     681.2,       0.0);         ( 490386.0,
3859638.6,     682.3,     682.3,       0.0);
     ( 490436.0, 3859638.6,     682.6,     682.6,       0.0);         ( 490486.0,
3859638.6,     683.7,     683.7,       0.0);
     ( 490536.0, 3859638.6,     684.8,     684.8,       0.0);         ( 490586.0,
3859638.6,     685.9,     685.9,       0.0);
     ( 490636.0, 3859638.6,     687.6,     687.6,       0.0);         ( 490686.0,
3859638.6,     689.1,     689.1,       0.0);
     ( 490736.0, 3859638.6,     690.6,     690.6,       0.0);         ( 490786.0,
3859638.6,     691.9,     691.9,       0.0);
     ( 490836.0, 3859638.6,     692.8,     692.8,       0.0);         ( 490886.0,
3859638.6,     693.6,     693.6,       0.0);
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(490136.0, 3859688.6, 680.1, 680.1, 0.0); (490186.0, 3859688.6, 680.1, 680.1, 0.0);
(490236.0, 3859688.6, 680.2, 680.2, 0.0); (490286.0, 3859688.6, 681.5, 682.4, 0.0);
(490336.0, 3859688.6, 681.0, 681.0, 0.0); (490386.0, 3859688.6, 680.3, 680.3, 0.0);
(490436.0, 3859688.6, 681.7, 681.7, 0.0); (490486.0, 3859688.6, 682.6, 682.6, 0.0);
(490536.0, 3859688.6, 683.9, 683.9, 0.0); (490586.0, 3859688.6, 684.7, 684.7, 0.0);
(490636.0, 3859688.6, 686.3, 686.3, 0.0); (490686.0, 3859688.6, 687.9, 687.9, 0.0);
(490736.0, 3859688.6, 689.4, 689.4, 0.0); (490786.0, 3859688.6, 690.6, 690.6, 0.0);
(490836.0, 3859688.6, 691.3, 691.3, 0.0); (490886.0, 3859688.6, 691.1, 691.1, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(490086.0, 3859738.6, 680.4, 680.4, 0.0); (490136.0, 3859738.6, 680.0, 680.0, 0.0);
(490186.0, 3859738.6, 679.4, 679.4, 0.0); (490236.0, 3859738.6, 679.1, 679.1, 0.0);
(490286.0, 3859738.6, 679.8, 679.8, 0.0); (490336.0, 3859738.6, 679.3, 679.3, 0.0);
(490386.0, 3859738.6, 681.0, 681.0, 0.0); (490436.0, 3859738.6, 680.9, 680.9, 0.0);
(490486.0, 3859738.6, 682.1, 682.1, 0.0); (490536.0, 3859738.6, 682.3, 682.3, 0.0);
(490586.0, 3859738.6, 683.8, 683.8, 0.0); (490636.0, 3859738.6, 685.2, 685.2, 0.0);
(490686.0, 3859738.6, 686.4, 686.4, 0.0); (490736.0, 3859738.6, 687.4, 687.4, 0.0);
(490786.0, 3859738.6, 688.1, 688.1, 0.0); (490836.0, 3859738.6, 688.8, 688.8, 0.0);
(490886.0, 3859738.6, 689.3, 689.3, 0.0); (490086.0, 3859788.6, 680.4, 680.4, 0.0);
(490136.0, 3859788.6, 679.8, 679.8, 0.0); (490186.0, 3859788.6, 679.4, 679.4, 0.0);
(490236.0, 3859788.6, 679.0, 679.0, 0.0); (490286.0, 3859788.6, 678.5, 678.5, 0.0);

```
     ( 490336.0, 3859788.6,     678.3,     678.3,       0.0);         ( 490386.0,
3859788.6,     678.2,     678.2,       0.0);
     ( 490436.0, 3859788.6,     679.2,     679.2,       0.0);         ( 490486.0,
3859788.6,     679.9,     679.9,       0.0);
     ( 490536.0, 3859788.6,     681.8,     681.8,       0.0);         ( 490586.0,
3859788.6,     681.8,     681.8,       0.0);
     ( 490636.0, 3859788.6,     683.9,     684.9,       0.0);         ( 490686.0,
3859788.6,     685.1,     685.1,       0.0);
     ( 490736.0, 3859788.6,     685.1,     685.1,       0.0);         ( 490786.0,
3859788.6,     685.8,     685.8,       0.0);
     ( 490836.0, 3859788.6,     686.8,     686.8,       0.0);         ( 490886.0,
3859788.6,     688.9,     688.9,       0.0);
     ( 490086.0, 3859838.6,     680.0,     680.0,       0.0);         ( 490136.0,
3859838.6,     679.5,     679.5,       0.0);
     ( 490186.0, 3859838.6,     679.2,     679.2,       0.0);         ( 490236.0,
3859838.6,     679.1,     679.1,       0.0);
     ( 490286.0, 3859838.6,     678.6,     678.6,       0.0);         ( 490336.0,
3859838.6,     678.0,     678.0,       0.0);
     ( 490386.0, 3859838.6,     678.0,     678.0,       0.0);         ( 490436.0,
3859838.6,     678.3,     678.3,       0.0);
     ( 490486.0, 3859838.6,     678.8,     678.8,       0.0);         ( 490536.0,
3859838.6,     680.0,     680.0,       0.0);
     ( 490586.0, 3859838.6,     680.9,     680.9,       0.0);         ( 490636.0,
3859838.6,     681.7,     681.7,       0.0);
     ( 490686.0, 3859838.6,     681.7,     681.7,       0.0);         ( 490736.0,
3859838.6,     683.3,     683.3,       0.0);
     ( 490786.0, 3859838.6,     685.2,     685.2,       0.0);         ( 490836.0,
3859838.6,     685.8,     685.8,       0.0);
     ( 490886.0, 3859838.6,     686.8,     686.8,       0.0);         ( 490086.0,
3859888.6,     679.4,     679.4,       0.0);
     ( 490136.0, 3859888.6,     679.0,     679.0,       0.0);         ( 490186.0,
3859888.6,     679.0,     679.0,       0.0);
     ( 490236.0, 3859888.6,     678.6,     678.6,       0.0);         ( 490286.0,
3859888.6,     678.2,     678.2,       0.0);
     ( 490336.0, 3859888.6,     677.9,     677.9,       0.0);         ( 490386.0,
3859888.6,     677.8,     677.8,       0.0);
     ( 490436.0, 3859888.6,     677.6,     677.6,       0.0);         ( 490486.0,
3859888.6,     677.7,     677.7,       0.0);
     ( 490536.0, 3859888.6,     678.5,     678.5,       0.0);         ( 490586.0,
3859888.6,     680.1,     680.1,       0.0);
     ( 490636.0, 3859888.6,     680.6,     680.6,       0.0);         ( 490686.0,
3859888.6,     681.1,     681.1,       0.0);
     ( 490736.0, 3859888.6,     681.5,     681.5,       0.0);         ( 490786.0,
3859888.6,     681.6,     681.6,       0.0);
     ( 490836.0, 3859888.6,     682.5,     686.7,       0.0);         ( 490886.0,
3859888.6,     684.9,     686.7,       0.0);
     ( 490136.0, 3859938.6,     678.8,     678.8,       0.0);         ( 490186.0,
3859938.6,     678.6,     678.6,       0.0);
     ( 490236.0, 3859938.6,     678.3,     678.3,       0.0);         ( 490286.0,
3859938.6,     678.0,     678.0,       0.0);
```

```
     ( 490336.0, 3859938.6,     677.5,     677.5,       0.0);         ( 490386.0,
3859938.6,     677.3,     677.3,       0.0);
     ( 490436.0, 3859938.6,     677.0,     677.0,       0.0);         ( 490486.0,
3859938.6,     676.9,     676.9,       0.0);
     ( 490536.0, 3859938.6,     677.7,     677.7,       0.0);         ( 490586.0,
3859938.6,     678.8,     678.8,       0.0);
     ( 490636.0, 3859938.6,     679.1,     679.1,       0.0);         ( 490686.0,
3859938.6,     680.9,     680.9,       0.0);
     ( 490736.0, 3859938.6,     681.7,     681.7,       0.0);         ( 490786.0,
3859938.6,     681.7,     681.7,       0.0);
     ( 490836.0, 3859938.6,     681.9,     681.9,       0.0);         ( 490886.0,
3859938.6,     679.7,     686.7,       0.0);
     ( 490136.0, 3859988.6,     678.6,     678.6,       0.0);         ( 490186.0,
3859988.6,     678.4,     678.4,       0.0);
     ( 490236.0, 3859988.6,     678.6,     678.6,       0.0);         ( 490286.0,
3859988.6,     678.2,     678.2,       0.0);
     ( 490336.0, 3859988.6,     677.8,     677.8,       0.0);         ( 490386.0,
3859988.6,     677.0,     677.0,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        15:28:40

                                    PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                              *** DISCRETE CARTESIAN RECEPTORS ***
                                            (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                      (METERS)

     ( 490436.0, 3859988.6,     676.5,     676.5,       0.0);         ( 490486.0,
3859988.6,     676.4,     676.4,       0.0);
     ( 490536.0, 3859988.6,     676.7,     676.7,       0.0);         ( 490586.0,
3859988.6,     677.3,     677.3,       0.0);
     ( 490636.0, 3859988.6,     678.2,     678.2,       0.0);         ( 490686.0,
3859988.6,     679.8,     682.0,       0.0);
     ( 490736.0, 3859988.6,     680.1,     680.1,       0.0);         ( 490786.0,
3859988.6,     680.2,     680.2,       0.0);
     ( 490836.0, 3859988.6,     680.0,     680.0,       0.0);         ( 490886.0,
3859988.6,     678.8,     678.8,       0.0);
     ( 490136.0, 3860038.6,     678.5,     678.5,       0.0);         ( 490186.0,
3860038.6,     678.2,     678.2,       0.0);
     ( 490236.0, 3860038.6,     678.0,     678.0,       0.0);         ( 490286.0,
3860038.6,     677.6,     677.6,       0.0);
     ( 490336.0, 3860038.6,     677.5,     677.5,       0.0);         ( 490386.0,
3860038.6,     676.8,     676.8,       0.0);
     ( 490436.0, 3860038.6,     676.3,     676.3,       0.0);         ( 490486.0,
3860038.6,     676.0,     676.0,       0.0);
     ( 490536.0, 3860038.6,     676.1,     676.1,       0.0);         ( 490586.0,
3860038.6,     676.2,     676.2,       0.0);
```

```
     ( 490636.0, 3860038.6,     675.9,     675.9,       0.0);         ( 490686.0,
3860038.6,     676.7,     676.7,       0.0);
     ( 490736.0, 3860038.6,     678.5,     678.5,       0.0);         ( 490786.0,
3860038.6,     678.6,     678.6,       0.0);
     ( 490836.0, 3860038.6,     678.5,     678.5,       0.0);         ( 490886.0,
3860038.6,     677.7,     677.7,       0.0);
     ( 490136.0, 3860088.6,     678.4,     678.4,       0.0);         ( 490186.0,
3860088.6,     678.5,     678.5,       0.0);
     ( 490236.0, 3860088.6,     678.0,     678.0,       0.0);         ( 490286.0,
3860088.6,     677.6,     677.6,       0.0);
     ( 490336.0, 3860088.6,     677.0,     677.0,       0.0);         ( 490386.0,
3860088.6,     676.5,     676.5,       0.0);
     ( 490436.0, 3860088.6,     676.1,     676.1,       0.0);         ( 490486.0,
3860088.6,     675.4,     675.4,       0.0);
     ( 490536.0, 3860088.6,     675.4,     675.4,       0.0);         ( 490586.0,
3860088.6,     675.5,     675.5,       0.0);
     ( 490636.0, 3860088.6,     675.2,     675.2,       0.0);         ( 490686.0,
3860088.6,     675.5,     675.5,       0.0);
     ( 490736.0, 3860088.6,     676.2,     676.2,       0.0);         ( 490786.0,
3860088.6,     676.9,     676.9,       0.0);
     ( 490836.0, 3860088.6,     676.8,     676.8,       0.0);         ( 490886.0,
3860088.6,     676.3,     676.3,       0.0);
     ( 490136.0, 3860138.6,     677.9,     677.9,       0.0);         ( 490186.0,
3860138.6,     678.0,     678.0,       0.0);
     ( 490236.0, 3860138.6,     677.5,     677.5,       0.0);         ( 490286.0,
3860138.6,     677.2,     677.2,       0.0);
     ( 490336.0, 3860138.6,     676.8,     676.8,       0.0);         ( 490386.0,
3860138.6,     676.3,     676.3,       0.0);
     ( 490436.0, 3860138.6,     675.6,     675.6,       0.0);         ( 490486.0,
3860138.6,     675.2,     675.2,       0.0);
     ( 490536.0, 3860138.6,     675.1,     675.1,       0.0);         ( 490586.0,
3860138.6,     674.9,     674.9,       0.0);
     ( 490636.0, 3860138.6,     674.7,     674.7,       0.0);         ( 490686.0,
3860138.6,     674.5,     674.5,       0.0);
     ( 490736.0, 3860138.6,     674.5,     674.5,       0.0);         ( 490786.0,
3860138.6,     675.2,     675.2,       0.0);
     ( 490836.0, 3860138.6,     675.1,     675.1,       0.0);         ( 490886.0,
3860138.6,     674.2,     674.2,       0.0);
     ( 490936.0, 3860138.6,     673.5,     673.5,       0.0);         ( 490986.0,
3860138.6,     673.3,     673.3,       0.0);
     ( 491036.0, 3860138.6,     673.4,     673.4,       0.0);         ( 490136.0,
3860188.6,     677.6,     677.6,       0.0);
     ( 490186.0, 3860188.6,     677.6,     677.6,       0.0);         ( 490236.0,
3860188.6,     677.2,     677.2,       0.0);
     ( 490286.0, 3860188.6,     676.8,     676.8,       0.0);         ( 490336.0,
3860188.6,     676.3,     676.3,       0.0);
     ( 490386.0, 3860188.6,     675.9,     675.9,       0.0);         ( 490436.0,
3860188.6,     675.4,     675.4,       0.0);
     ( 490486.0, 3860188.6,     674.9,     674.9,       0.0);         ( 490536.0,
3860188.6,     674.6,     674.6,       0.0);
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(490586.0, 3860188.6, 674.7, 674.7, 0.0); (490636.0, 3860188.6, 674.2, 674.2, 0.0);
(490686.0, 3860188.6, 674.2, 674.2, 0.0); (490736.0, 3860188.6, 673.6, 673.6, 0.0);
(490786.0, 3860188.6, 673.7, 673.7, 0.0); (490836.0, 3860188.6, 673.7, 673.7, 0.0);
(490886.0, 3860188.6, 673.0, 673.0, 0.0); (490936.0, 3860188.6, 672.3, 672.3, 0.0);
(490986.0, 3860188.6, 672.1, 672.1, 0.0); (491036.0, 3860188.6, 671.7, 671.7, 0.0);
(491086.0, 3860188.6, 670.9, 670.9, 0.0); (491136.0, 3860188.6, 670.9, 670.9, 0.0);
(490136.0, 3860238.6, 677.0, 677.0, 0.0); (490186.0, 3860238.6, 677.1, 677.1, 0.0);
(490236.0, 3860238.6, 676.8, 676.8, 0.0); (490286.0, 3860238.6, 676.5, 676.5, 0.0);
(490336.0, 3860238.6, 676.1, 676.1, 0.0); (490386.0, 3860238.6, 675.6, 675.6, 0.0);
(490436.0, 3860238.6, 675.3, 675.3, 0.0); (490486.0, 3860238.6, 674.7, 674.7, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(490536.0, 3860238.6, 674.4, 674.4, 0.0); (490586.0, 3860238.6, 674.2, 674.2, 0.0);
(490636.0, 3860238.6, 674.0, 674.0, 0.0); (490686.0, 3860238.6, 673.8, 673.8, 0.0);
(490736.0, 3860238.6, 673.4, 673.4, 0.0); (490786.0, 3860238.6, 673.1, 673.1, 0.0);
(490836.0, 3860238.6, 672.7, 672.7, 0.0); (490886.0, 3860238.6, 672.4, 672.4, 0.0);
(490936.0, 3860238.6, 672.1, 672.1, 0.0); (490986.0, 3860238.6, 672.6, 672.6, 0.0);
(491036.0, 3860238.6, 672.0, 672.0, 0.0); (491086.0, 3860238.6, 670.9, 670.9, 0.0);
(491136.0, 3860238.6, 670.4, 670.4, 0.0); (490136.0, 3860288.6, 676.6, 676.6, 0.0);
(490186.0, 3860288.6, 676.5, 676.5, 0.0); (490236.0, 3860288.6, 676.6, 676.6, 0.0);
(490286.0, 3860288.6, 676.1, 676.1, 0.0); (490336.0, 3860288.6, 675.7, 675.7, 0.0);

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     ( 490386.0, 3860288.6,     675.4,     675.4,       0.0);         ( 490436.0,
3860288.6,     675.0,     675.0,       0.0);
     ( 490486.0, 3860288.6,     674.6,     674.6,       0.0);         ( 490536.0,
3860288.6,     674.1,     674.1,       0.0);
     ( 490586.0, 3860288.6,     673.7,     673.7,       0.0);         ( 490636.0,
3860288.6,     673.4,     673.4,       0.0);
     ( 490686.0, 3860288.6,     673.3,     673.3,       0.0);         ( 490736.0,
3860288.6,     673.1,     673.1,       0.0);
     ( 490786.0, 3860288.6,     672.9,     672.9,       0.0);         ( 490836.0,
3860288.6,     672.5,     672.5,       0.0);
     ( 490886.0, 3860288.6,     672.2,     672.2,       0.0);         ( 490936.0,
3860288.6,     671.7,     671.7,       0.0);
     ( 490986.0, 3860288.6,     671.9,     671.9,       0.0);         ( 491036.0,
3860288.6,     671.4,     671.4,       0.0);
     ( 491086.0, 3860288.6,     670.7,     670.7,       0.0);         ( 490136.0,
3860338.6,     676.2,     676.2,       0.0);
     ( 490186.0, 3860338.6,     676.1,     676.1,       0.0);         ( 490236.0,
3860338.6,     676.2,     676.2,       0.0);
     ( 490286.0, 3860338.6,     675.8,     675.8,       0.0);         ( 490336.0,
3860338.6,     675.4,     675.4,       0.0);
     ( 490386.0, 3860338.6,     675.1,     675.1,       0.0);         ( 490436.0,
3860338.6,     674.7,     674.7,       0.0);
     ( 490486.0, 3860338.6,     674.3,     674.3,       0.0);         ( 490536.0,
3860338.6,     674.0,     674.0,       0.0);
     ( 490586.0, 3860338.6,     673.5,     673.5,       0.0);         ( 490636.0,
3860338.6,     673.2,     673.2,       0.0);
     ( 490686.0, 3860338.6,     672.9,     672.9,       0.0);         ( 490736.0,
3860338.6,     672.7,     672.7,       0.0);
     ( 490786.0, 3860338.6,     672.9,     672.9,       0.0);         ( 490836.0,
3860338.6,     672.3,     672.3,       0.0);
     ( 490886.0, 3860338.6,     671.9,     671.9,       0.0);         ( 490936.0,
3860338.6,     671.4,     671.4,       0.0);
     ( 490986.0, 3860338.6,     670.8,     670.8,       0.0);         ( 491036.0,
3860338.6,     670.5,     670.5,       0.0);
     ( 491086.0, 3860338.6,     670.1,     670.1,       0.0);         ( 490136.0,
3860388.6,     675.7,     675.7,       0.0);
     ( 490186.0, 3860388.6,     675.5,     675.5,       0.0);         ( 490236.0,
3860388.6,     675.6,     675.6,       0.0);
     ( 490286.0, 3860388.6,     675.3,     675.3,       0.0);         ( 490336.0,
3860388.6,     675.0,     675.0,       0.0);
     ( 490386.0, 3860388.6,     674.6,     674.6,       0.0);         ( 490436.0,
3860388.6,     674.3,     674.3,       0.0);
     ( 490486.0, 3860388.6,     674.1,     674.1,       0.0);         ( 490536.0,
3860388.6,     673.8,     673.8,       0.0);
     ( 490586.0, 3860388.6,     673.4,     673.4,       0.0);         ( 490636.0,
3860388.6,     672.9,     672.9,       0.0);
     ( 490686.0, 3860388.6,     672.8,     672.8,       0.0);         ( 490736.0,
3860388.6,     672.3,     672.3,       0.0);
     ( 490786.0, 3860388.6,     672.1,     672.1,       0.0);         ( 490836.0,
3860388.6,     672.0,     672.0,       0.0);
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(490136.0, 3860438.6, 675.0, 675.0, 0.0); (490186.0, 3860438.6, 675.1, 675.1, 0.0);
(490236.0, 3860438.6, 675.1, 675.1, 0.0); (490286.0, 3860438.6, 674.9, 674.9, 0.0);
(490336.0, 3860438.6, 674.5, 674.5, 0.0); (490386.0, 3860438.6, 674.2, 674.2, 0.0);
(490436.0, 3860438.6, 674.0, 674.0, 0.0); (490486.0, 3860438.6, 673.6, 673.6, 0.0);
(490536.0, 3860438.6, 673.4, 673.4, 0.0); (490586.0, 3860438.6, 673.0, 673.0, 0.0);
(490636.0, 3860438.6, 672.6, 672.6, 0.0); (490686.0, 3860438.6, 672.3, 672.3, 0.0);
(490736.0, 3860438.6, 672.2, 672.2, 0.0); (490786.0, 3860438.6, 671.8, 671.8, 0.0);
(490836.0, 3860438.6, 671.9, 671.9, 0.0); (490136.0, 3860488.6, 674.9, 674.9, 0.0);
(490186.0, 3860488.6, 674.9, 674.9, 0.0); (490236.0, 3860488.6, 674.5, 674.5, 0.0);
(490286.0, 3860488.6, 674.5, 674.5, 0.0); (490336.0, 3860488.6, 674.1, 674.1, 0.0);
(490386.0, 3860488.6, 673.9, 673.9, 0.0); (490436.0, 3860488.6, 674.0, 674.0, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(490486.0, 3860488.6, 673.6, 673.6, 0.0); (490536.0, 3860488.6, 673.0, 673.0, 0.0);
(490586.0, 3860488.6, 672.5, 672.5, 0.0); (490636.0, 3860488.6, 672.3, 672.3, 0.0);
(490686.0, 3860488.6, 671.8, 671.8, 0.0); (490736.0, 3860488.6, 671.6, 671.6, 0.0);
(490786.0, 3860488.6, 671.4, 671.4, 0.0); (490136.0, 3860538.6, 674.6, 674.6, 0.0);
(490186.0, 3860538.6, 675.1, 675.1, 0.0); (490236.0, 3860538.6, 674.2, 674.2, 0.0);
(490286.0, 3860538.6, 673.9, 673.9, 0.0); (490336.0, 3860538.6, 673.8, 673.8, 0.0);
(490386.0, 3860538.6, 673.9, 673.9, 0.0); (490436.0, 3860538.6, 673.7, 673.7, 0.0);
(490486.0, 3860538.6, 673.6, 673.6, 0.0); (490536.0, 3860538.6, 674.3, 674.3, 0.0);

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     ( 490586.0, 3860538.6,     672.6,     672.6,       0.0);         ( 490636.0,
3860538.6,     672.0,     672.0,       0.0);
     ( 490686.0, 3860538.6,     671.7,     671.7,       0.0);         ( 490736.0,
3860538.6,     671.3,     671.3,       0.0);
     ( 490786.0, 3860538.6,     671.1,     671.1,       0.0);         ( 490136.0,
3860588.6,     675.0,     678.2,       0.0);
     ( 490186.0, 3860588.6,     672.9,     672.9,       0.0);         ( 490236.0,
3860588.6,     673.4,     673.4,       0.0);
     ( 490286.0, 3860588.6,     673.6,     673.6,       0.0);         ( 490336.0,
3860588.6,     673.4,     673.4,       0.0);
     ( 490386.0, 3860588.6,     673.1,     673.1,       0.0);         ( 490436.0,
3860588.6,     674.1,     674.1,       0.0);
     ( 490486.0, 3860588.6,     674.8,     674.8,       0.0);         ( 490536.0,
3860588.6,     674.1,     674.1,       0.0);
     ( 490586.0, 3860588.6,     671.9,     671.9,       0.0);         ( 490636.0,
3860588.6,     671.7,     671.7,       0.0);
     ( 490686.0, 3860588.6,     671.3,     671.3,       0.0);         ( 490736.0,
3860588.6,     671.0,     671.0,       0.0);
     ( 490786.0, 3860588.6,     670.5,     670.5,       0.0);         ( 490136.0,
3860638.6,     675.5,     678.2,       0.0);
     ( 490186.0, 3860638.6,     674.6,     674.6,       0.0);         ( 490236.0,
3860638.6,     673.3,     676.0,       0.0);
     ( 490286.0, 3860638.6,     672.8,     672.8,       0.0);         ( 490336.0,
3860638.6,     672.9,     672.9,       0.0);
     ( 490386.0, 3860638.6,     672.8,     672.8,       0.0);         ( 490436.0,
3860638.6,     672.4,     672.4,       0.0);
     ( 490486.0, 3860638.6,     672.3,     672.3,       0.0);         ( 490536.0,
3860638.6,     672.5,     672.5,       0.0);
     ( 490586.0, 3860638.6,     671.9,     671.9,       0.0);         ( 490636.0,
3860638.6,     671.6,     671.6,       0.0);
     ( 490686.0, 3860638.6,     671.2,     671.2,       0.0);         ( 490736.0,
3860638.6,     670.5,     670.5,       0.0);
     ( 490786.0, 3860638.6,     670.2,     670.2,       0.0);         ( 490136.0,
3860688.6,     674.4,     675.9,       0.0);
     ( 490186.0, 3860688.6,     675.8,     677.3,       0.0);         ( 490236.0,
3860688.6,     674.2,     674.2,       0.0);
     ( 490286.0, 3860688.6,     672.1,     672.1,       0.0);         ( 490336.0,
3860688.6,     672.4,     672.4,       0.0);
     ( 490386.0, 3860688.6,     672.5,     672.5,       0.0);         ( 490436.0,
3860688.6,     672.1,     672.1,       0.0);
     ( 490486.0, 3860688.6,     671.5,     671.5,       0.0);         ( 490536.0,
3860688.6,     671.3,     671.3,       0.0);
     ( 490586.0, 3860688.6,     671.2,     671.2,       0.0);         ( 490636.0,
3860688.6,     671.1,     671.1,       0.0);
     ( 490686.0, 3860688.6,     671.2,     671.2,       0.0);         ( 490736.0,
3860688.6,     670.8,     670.8,       0.0);
     ( 490786.0, 3860688.6,     670.8,     670.8,       0.0);         ( 490136.0,
3860738.6,     672.7,     672.7,       0.0);
     ( 490186.0, 3860738.6,     671.9,     671.9,       0.0);         ( 490236.0,
3860738.6,     671.7,     671.7,       0.0);
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(490286.0, 3860738.6, 671.7, 671.7, 0.0); (490336.0, 3860738.6, 671.7, 671.7, 0.0);
(490386.0, 3860738.6, 671.8, 671.8, 0.0); (490436.0, 3860738.6, 672.8, 672.8, 0.0);
(490486.0, 3860738.6, 672.1, 672.1, 0.0); (490536.0, 3860738.6, 670.6, 670.6, 0.0);
(490586.0, 3860738.6, 670.2, 670.2, 0.0); (490636.0, 3860738.6, 670.1, 670.1, 0.0);
(490686.0, 3860738.6, 670.4, 670.4, 0.0); (490736.0, 3860738.6, 670.6, 670.6, 0.0);
(490786.0, 3860738.6, 671.1, 671.1, 0.0); (490136.0, 3860788.6, 670.8, 670.8, 0.0);
(490186.0, 3860788.6, 670.8, 670.8, 0.0); (490236.0, 3860788.6, 670.7, 670.7, 0.0);
(490286.0, 3860788.6, 670.7, 670.7, 0.0); (490336.0, 3860788.6, 670.5, 670.5, 0.0);
(490386.0, 3860788.6, 671.0, 671.0, 0.0); (490436.0, 3860788.6, 670.9, 670.9, 0.0);
(490486.0, 3860788.6, 671.4, 671.4, 0.0); (490536.0, 3860788.6, 670.8, 670.8, 0.0);
(490586.0, 3860788.6, 669.6, 669.6, 0.0); (490636.0, 3860788.6, 669.2, 669.2, 0.0);
(490686.0, 3860788.6, 669.2, 669.2, 0.0); (490736.0, 3860788.6, 669.6, 669.6, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(490786.0, 3860788.6, 669.3, 669.3, 0.0); (489986.0, 3860838.6, 669.3, 669.3, 0.0);
(490036.0, 3860838.6, 669.5, 669.5, 0.0); (490086.0, 3860838.6, 670.0, 670.0, 0.0);
(490136.0, 3860838.6, 670.3, 670.3, 0.0); (490186.0, 3860838.6, 670.0, 670.0, 0.0);
(490236.0, 3860838.6, 669.9, 669.9, 0.0); (490286.0, 3860838.6, 670.0, 670.0, 0.0);
(490336.0, 3860838.6, 669.7, 669.7, 0.0); (490386.0, 3860838.6, 669.6, 669.6, 0.0);
(490436.0, 3860838.6, 669.9, 669.9, 0.0); (490486.0, 3860838.6, 670.1, 670.1, 0.0);
(490536.0, 3860838.6, 669.9, 669.9, 0.0); (490586.0, 3860838.6, 669.3, 669.3, 0.0);

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     ( 490636.0, 3860838.6,     668.7,     668.7,       0.0);         ( 490686.0,
3860838.6,     668.6,     668.6,       0.0);
     ( 490736.0, 3860838.6,     668.8,     668.8,       0.0);         ( 490786.0,
3860838.6,     668.9,     668.9,       0.0);
     ( 490836.0, 3860838.6,     668.7,     668.7,       0.0);         ( 489836.0,
3860888.6,     668.6,     668.6,       0.0);
     ( 489886.0, 3860888.6,     668.7,     668.7,       0.0);         ( 489936.0,
3860888.6,     668.8,     668.8,       0.0);
     ( 489986.0, 3860888.6,     669.0,     669.0,       0.0);         ( 490036.0,
3860888.6,     669.3,     669.3,       0.0);
     ( 490086.0, 3860888.6,     669.6,     669.6,       0.0);         ( 490136.0,
3860888.6,     669.7,     669.7,       0.0);
     ( 490186.0, 3860888.6,     669.4,     669.4,       0.0);         ( 490236.0,
3860888.6,     669.4,     669.4,       0.0);
     ( 490286.0, 3860888.6,     669.2,     669.2,       0.0);         ( 490336.0,
3860888.6,     669.0,     669.0,       0.0);
     ( 490386.0, 3860888.6,     669.1,     669.1,       0.0);         ( 490436.0,
3860888.6,     669.4,     669.4,       0.0);
     ( 490486.0, 3860888.6,     669.3,     669.3,       0.0);         ( 490536.0,
3860888.6,     669.1,     669.1,       0.0);
     ( 490586.0, 3860888.6,     668.8,     668.8,       0.0);         ( 490636.0,
3860888.6,     668.2,     668.2,       0.0);
     ( 490686.0, 3860888.6,     668.0,     668.0,       0.0);         ( 490736.0,
3860888.6,     667.8,     667.8,       0.0);
     ( 490786.0, 3860888.6,     667.5,     667.5,       0.0);         ( 490836.0,
3860888.6,     667.6,     667.6,       0.0);
     ( 490886.0, 3860888.6,     668.0,     668.0,       0.0);         ( 490936.0,
3860888.6,     667.9,     667.9,       0.0);
     ( 489836.0, 3860938.6,     668.1,     668.1,       0.0);         ( 489886.0,
3860938.6,     668.1,     668.1,       0.0);
     ( 489936.0, 3860938.6,     668.3,     668.3,       0.0);         ( 489986.0,
3860938.6,     668.5,     668.5,       0.0);
     ( 490036.0, 3860938.6,     668.6,     668.6,       0.0);         ( 490086.0,
3860938.6,     668.7,     668.7,       0.0);
     ( 490136.0, 3860938.6,     668.4,     668.4,       0.0);         ( 490186.0,
3860938.6,     668.5,     668.5,       0.0);
     ( 490236.0, 3860938.6,     668.6,     668.6,       0.0);         ( 490286.0,
3860938.6,     668.7,     668.7,       0.0);
     ( 490336.0, 3860938.6,     668.4,     668.4,       0.0);         ( 490386.0,
3860938.6,     668.6,     668.6,       0.0);
     ( 490436.0, 3860938.6,     668.8,     668.8,       0.0);         ( 490486.0,
3860938.6,     668.7,     668.7,       0.0);
     ( 490536.0, 3860938.6,     668.6,     668.6,       0.0);         ( 490586.0,
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     ( 490736.0, 3860938.6,     667.2,     667.2,       0.0);         ( 490786.0,
3860938.6,     667.0,     667.0,       0.0);
     ( 490836.0, 3860938.6,     667.3,     667.3,       0.0);         ( 490886.0,
3860938.6,     667.7,     667.7,       0.0);
```

```
     ( 490936.0, 3860938.6,     667.6,     667.6,       0.0);         ( 489836.0,
3860988.6,     668.0,     668.0,       0.0);
     ( 489886.0, 3860988.6,     668.0,     668.0,       0.0);         ( 489936.0,
3860988.6,     668.1,     668.1,       0.0);
     ( 489986.0, 3860988.6,     668.2,     668.2,       0.0);         ( 490036.0,
3860988.6,     668.1,     668.1,       0.0);
     ( 490086.0, 3860988.6,     668.3,     668.3,       0.0);         ( 490136.0,
3860988.6,     668.2,     668.2,       0.0);
     ( 490186.0, 3860988.6,     668.4,     668.4,       0.0);         ( 490236.0,
3860988.6,     668.0,     668.0,       0.0);
     ( 490286.0, 3860988.6,     667.9,     667.9,       0.0);         ( 490336.0,
3860988.6,     667.9,     667.9,       0.0);
     ( 490386.0, 3860988.6,     667.9,     667.9,       0.0);         ( 490436.0,
3860988.6,     668.4,     668.4,       0.0);
     ( 490486.0, 3860988.6,     668.2,     668.2,       0.0);         ( 490536.0,
3860988.6,     667.9,     667.9,       0.0);
     ( 490586.0, 3860988.6,     667.6,     667.6,       0.0);         ( 490636.0,
3860988.6,     667.4,     667.4,       0.0);
     ( 490686.0, 3860988.6,     667.0,     667.0,       0.0);         ( 490736.0,
3860988.6,     666.6,     666.6,       0.0);
     ( 490786.0, 3860988.6,     666.4,     666.4,       0.0);         ( 490836.0,
3860988.6,     666.5,     666.5,       0.0);
     ( 490886.0, 3860988.6,     666.9,     666.9,       0.0);         ( 490936.0,
3860988.6,     666.7,     666.7,       0.0);
     ( 489836.0, 3861038.6,     667.8,     667.8,       0.0);         ( 489886.0,
3861038.6,     667.9,     667.9,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        15:28:40

                                   PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                 (METERS)

     ( 489936.0, 3861038.6,     667.7,     667.7,       0.0);         ( 489986.0,
3861038.6,     667.6,     667.6,       0.0);
     ( 490036.0, 3861038.6,     667.7,     667.7,       0.0);         ( 490086.0,
3861038.6,     667.7,     667.7,       0.0);
     ( 490136.0, 3861038.6,     667.7,     667.7,       0.0);         ( 490186.0,
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     ( 490236.0, 3861038.6,     667.7,     667.7,       0.0);         ( 490286.0,
3861038.6,     667.4,     667.4,       0.0);
     ( 490336.0, 3861038.6,     667.2,     667.2,       0.0);         ( 490386.0,
3861038.6,     667.5,     667.5,       0.0);
     ( 490436.0, 3861038.6,     667.9,     667.9,       0.0);         ( 490486.0,
3861038.6,     667.9,     667.9,       0.0);
```

```
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     ( 490636.0, 3861038.6,     666.8,     666.8,       0.0);         ( 490686.0,
3861038.6,     666.4,     666.4,       0.0);
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     ( 490836.0, 3861038.6,     666.0,     666.0,       0.0);         ( 490886.0,
3861038.6,     666.0,     666.0,       0.0);
     ( 490936.0, 3861038.6,     666.0,     666.0,       0.0);         ( 489836.0,
3861088.6,     667.6,     667.6,       0.0);
     ( 489886.0, 3861088.6,     667.5,     667.5,       0.0);         ( 489936.0,
3861088.6,     667.4,     667.4,       0.0);
     ( 489986.0, 3861088.6,     667.2,     667.2,       0.0);         ( 490036.0,
3861088.6,     667.1,     667.1,       0.0);
     ( 490086.0, 3861088.6,     667.2,     667.2,       0.0);         ( 490136.0,
3861088.6,     667.5,     667.5,       0.0);
     ( 490186.0, 3861088.6,     668.0,     668.0,       0.0);         ( 490236.0,
3861088.6,     667.6,     667.6,       0.0);
     ( 490286.0, 3861088.6,     667.3,     667.3,       0.0);         ( 490336.0,
3861088.6,     666.9,     666.9,       0.0);
     ( 490386.0, 3861088.6,     667.2,     667.2,       0.0);         ( 490436.0,
3861088.6,     667.2,     667.2,       0.0);
     ( 490486.0, 3861088.6,     667.2,     667.2,       0.0);         ( 490536.0,
3861088.6,     667.3,     667.3,       0.0);
     ( 490586.0, 3861088.6,     666.9,     666.9,       0.0);         ( 490636.0,
3861088.6,     666.3,     666.3,       0.0);
     ( 490686.0, 3861088.6,     665.9,     665.9,       0.0);         ( 490736.0,
3861088.6,     665.7,     665.7,       0.0);
     ( 490786.0, 3861088.6,     665.5,     665.5,       0.0);         ( 490836.0,
3861088.6,     665.4,     665.4,       0.0);
     ( 490886.0, 3861088.6,     665.3,     665.3,       0.0);         ( 490936.0,
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     ( 489836.0, 3861138.6,     667.0,     667.0,       0.0);         ( 489886.0,
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     ( 490036.0, 3861138.6,     666.3,     666.3,       0.0);         ( 490086.0,
3861138.6,     666.6,     666.6,       0.0);
     ( 490136.0, 3861138.6,     666.9,     666.9,       0.0);         ( 490186.0,
3861138.6,     667.1,     667.1,       0.0);
     ( 490236.0, 3861138.6,     667.3,     667.3,       0.0);         ( 490286.0,
3861138.6,     667.2,     667.2,       0.0);
     ( 490336.0, 3861138.6,     666.9,     666.9,       0.0);         ( 490386.0,
3861138.6,     666.9,     666.9,       0.0);
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     ( 490536.0, 3861138.6,     666.7,     666.7,       0.0);         ( 490586.0,
3861138.6,     666.4,     666.4,       0.0);
     ( 490636.0, 3861138.6,     665.8,     665.8,       0.0);         ( 490686.0,
3861138.6,     665.6,     665.6,       0.0);
```

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

1 1 1

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\..\Metdata\KDAG_723815_23161 (3)\KDAG_723815_23161\KDAG_2015_2016_2018-2020_A Met Version: 19191
Profile file: ..\..\Metdata\KDAG_723815_23161 (3)\KDAG_723815_23161\KDAG_2015_2016_2018-2020_A
Surface format: FREE

Profile format: FREE

Surface station no.: 23161 Upper air station no.: 3120
Name: DAGGETT/FAA_AIRPORT Name: UNKNOWN

Year: 2015 Year: 2015

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
15	01	01	1	01	-24.9	0.256	-9.000	-9.000	-999.	311.	72.1	0.02	4.18	1.00	4.27	251.	10.0	272.5	2.0
15	01	01	1	02	-24.3	0.250	-9.000	-9.000	-999.	300.	68.6	0.02	4.18	1.00	4.17	240.	10.0	272.5	2.0
15	01	01	1	03	-28.4	0.292	-9.000	-9.000	-999.	379.	94.0	0.02	4.18	1.00	4.85	255.	10.0	273.1	2.0
15	01	01	1	04	-26.1	0.266	-9.000	-9.000	-999.	329.	77.8	0.02	4.18	1.00	4.51	274.	10.0	270.4	2.0
15	01	01	1	05	-32.2	0.328	-9.000	-9.000	-999.	450.	118.0	0.02	4.18	1.00	5.51	275.	10.0	270.4	2.0
15	01	01	1	06	-34.9	0.355	-9.000	-9.000	-999.	507.	138.4	0.02	4.18	1.00	5.84	252.	10.0	270.4	2.0
15	01	01	1	07	-34.8	0.355	-9.000	-9.000	-999.	508.	138.9	0.02	4.18	1.00	5.85	251.	10.0	271.4	2.0
15	01	01	1	08	-19.3	0.250	-9.000	-9.000	-999.	306.	68.6	0.02	4.18	0.57	4.15	266.	10.0	270.9	2.0
15	01	01	1	09	31.4	0.236	0.499	0.005	134.	276.	-35.7	0.02	4.18	0.36	3.40	255.	10.0	273.1	2.0
15	01	01	1	10	103.0	0.183	1.101	0.005	441.	188.	-5.0	0.02	4.18	0.29	2.15	300.	10.0	277.0	2.0
15	01	01	1	11	152.0	0.131	1.445	0.005	675.	114.	-1.3	0.04	4.18	0.26	1.08	230.	10.0	278.8	2.0
15	01	01	1	12	175.1	0.131	2.058	0.006	1692.	114.	-1.1	0.02	4.18	0.25	1.31	109.	10.0	280.4	2.0
15	01	01	1	13	171.2	0.143	2.108	0.011	1860.	130.	-1.4	0.01	4.18	0.26	1.55	35.	10.0	281.4	2.0

```
 15 01 01   1 14  140.5  0.177  1.982  0.011 1882.  179.     -3.4  0.01   4.18
0.27    2.16   55.   10.0  282.0    2.0
 15 01 01   1 15   84.4  0.150  1.677  0.011 1895.  139.     -3.4  0.02   4.18
0.30    1.77   64.   10.0  282.5    2.0
 15 01 01   1 16    8.8  0.148  0.789  0.010 1896.  136.    -31.1  0.02   4.18
0.40    2.15   70.   10.0  282.5    2.0
 15 01 01   1 17   -7.9  0.117 -9.000 -9.000 -999.   96.     17.3  0.02   4.18
0.70    2.08   75.   10.0  279.9    2.0
 15 01 01   1 18   -3.9  0.085 -9.000 -9.000 -999.   60.     13.5  0.05   4.18
1.00    1.24  196.   10.0  277.0    2.0
 15 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.03   4.18
1.00    0.00    0.   10.0  274.9    2.0
 15 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.03   4.18
1.00    0.00    0.   10.0  274.9    2.0
 15 01 01   1 21  -10.8  0.137 -9.000 -9.000 -999.  121.     20.5  0.02   4.18
1.00    2.36  260.   10.0  274.2    2.0
 15 01 01   1 22  -19.5  0.199 -9.000 -9.000 -999.  214.     43.7  0.02   4.18
1.00    3.36  262.   10.0  272.0    2.0
 15 01 01   1 23  -18.8  0.192 -9.000 -9.000 -999.  202.     40.5  0.04   4.18
1.00    2.86  230.   10.0  272.0    2.0
 15 01 01   1 24  -28.1  0.287 -9.000 -9.000 -999.  370.     90.9  0.02   4.18
1.00    4.86  270.   10.0  272.0    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 15 01 01 01   10.0 1  251.    4.27   272.6   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                  PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***
```

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489228.46	489247.76	489267.06	489286.36	489305.66	489324.96	489344.26	489363.56	489382.86
3859957.07	2.76251	2.91798	3.03810	3.18430	3.37555	3.60816	3.85435	4.10619	4.34893
3859937.65	2.31785	2.41135	2.47695	2.54450	2.62563	2.72455	2.83976	2.96768	3.10436
3859918.23	1.99783	2.05295	2.09270	2.12938	2.16831	2.21375	2.26678	2.32950	2.39995
3859898.81	1.74705	1.78196	1.80580	1.82618	1.84545	1.86664	1.89195	1.92266	1.95696
3859879.39	1.54828	1.57141	1.58591	1.59648	1.60546	1.61474	1.62581	1.63883	1.65523
3859859.97	1.38712	1.40195	1.41078	1.41566	1.41867	1.42110	1.42450	1.42871	1.43455
3859840.55	1.25383	1.26287	1.26720	1.26829	1.26751	1.26606	1.26535	1.26496	1.26507
3859821.13	1.14182	1.14629	1.14658	1.14500	1.14258	1.13945	1.13501	1.13152	1.12973
3859801.71	1.04586	1.04611	1.04530	1.04207	1.03769	1.03483	1.02870	1.02376	1.02011
3859782.29	0.96137	0.96004	0.95796	0.95366	0.94852	0.94566	0.93874	0.93294	0.92827
3859762.87	0.88865	0.88588	0.88264	0.87743	0.87120	0.86616	0.86054	0.85401	0.84777
3859743.45	0.82476	0.82099	0.81714	0.81159	0.80515	0.79955	0.79332	0.78728	0.78146
3859724.03	0.76792	0.76377	0.75955	0.75384	0.74738	0.74183	0.73521	0.72986	0.72483
3859704.61	0.71682	0.71204	0.70794	0.70283	0.69694	0.69157	0.68583	0.68020	0.67494
3859685.19	0.67123	0.66611	0.66252	0.65806	0.65311	0.64744	0.64175	0.63602	0.63049
3859665.77	0.63016	0.62604	0.62284	0.61920	0.61454	0.60880	0.60223	0.59635	0.59080
3859646.35	0.59294	0.58940	0.58483	0.58074	0.57635	0.57079	0.56597	0.56084	0.55622
3859626.93	0.55922	0.55570	0.55082	0.54699	0.54240	0.53724	0.53328	0.52923	0.52435
3859607.51	0.52821	0.52519	0.52103	0.51699	0.51280	0.50845	0.50449	0.50049	0.49641
3859588.09	0.50032	0.49642	0.49254	0.48899	0.48505	0.48077	0.47737	0.47368	0.46944

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                   *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489402.16   489421.46   489440.76   489460.06   489479.36
489498.66   489517.96   489537.26   489556.56
 -
- -

  3859957.07 | 4.58359   4.78240   4.93366   5.05476   5.16874
 5.25027   5.31352   5.36240   5.37020
  3859937.65 | 3.24488   3.37544   3.49728   3.59170   3.67989
 3.75333   3.81500   3.85625   3.87921
  3859918.23 | 2.47540   2.55222   2.62525   2.68665   2.75349
 2.80975   2.86167   2.90250   2.93503
  3859898.81 | 1.99447   2.03559   2.07659   2.11638   2.15049
 2.19413   2.23622   2.26908   2.29925
  3859879.39 | 1.67426   1.69524   1.71417   1.73090   1.74116
 1.78510   1.81439   1.83963   1.85660
  3859859.97 | 1.44249   1.45105   1.45982   1.46882   1.47883
 1.49684   1.51533   1.53370   1.55219
  3859840.55 | 1.26631   1.26957   1.27226   1.27551   1.27887
 1.28700   1.29773   1.30896   1.32308
  3859821.13 | 1.12813   1.12666   1.12530   1.12526   1.12649
 1.12742   1.13225   1.13825   1.14833
  3859801.71 | 1.01729   1.01358   1.01117   1.00799   1.00579

```
 1.00490      1.00545      1.00904      1.01251
  3859782.29 |       0.92431      0.92037      0.91713      0.91383      0.90901
 0.90622      0.90523      0.90539      0.90640
  3859762.87 |       0.84390      0.84022      0.83791      0.83591      0.83162
 0.82316      0.82174      0.82195      0.82167
  3859743.45 |       0.77657      0.77270      0.77098      0.76864      0.76491
 0.75442      0.75322      0.75285      0.75056
  3859724.03 |       0.71940      0.71493      0.71260      0.71059      0.70606
 0.69691      0.69590      0.69428      0.69119
  3859704.61 |       0.67062      0.66624      0.66356      0.66083      0.65704
 0.64757      0.64607      0.64401      0.63978
  3859685.19 |       0.62646      0.62283      0.62016      0.61678      0.61244
 0.60451      0.60207      0.60075      0.59580
  3859665.77 |       0.58615      0.58272      0.58046      0.57813      0.57352
 0.56542      0.56436      0.56184      0.55732
  3859646.35 |       0.55073      0.54751      0.54510      0.54264      0.53875
 0.53191      0.53069      0.52805      0.52354
  3859626.93 |       0.51940      0.51580      0.51400      0.51215      0.50822
 0.50294      0.50080      0.49808      0.49432
  3859607.51 |       0.49170      0.48826      0.48651      0.48466      0.48175
 0.47780      0.47488      0.47150      0.46853
  3859588.09 |       0.46558      0.46282      0.46006      0.45724      0.45433
 0.45136      0.44773      0.44438      0.44248
  3859568.67 |       0.44206      0.43880      0.43529      0.43147      0.42821
 0.42626      0.42277      0.41956      0.41752
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***       07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***       15:28:40

                                 PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

Y-COORD (METERS)	X-COORD (METERS) 489575.86	489595.16	489614.46
3859957.07	5.33895	5.27682	5.20582
3859937.65	3.88934	3.89830	3.89328
3859918.23	2.95682	2.98202	3.00013
3859898.81	2.33233	2.35916	2.37963
3859879.39	1.89274	1.91709	1.94416
3859859.97	1.57775	1.59803	1.61765
3859840.55	1.34091	1.35659	1.37628
3859821.13	1.15944	1.17267	1.18901
3859801.71	1.02118	1.02987	1.04244
3859782.29	0.91320	0.91858	0.92825
3859762.87	0.82386	0.82720	0.83526
3859743.45	0.75081	0.75303	0.75887
3859724.03	0.69010	0.69107	0.69547
3859704.61	0.63880	0.63892	0.64222
3859685.19	0.59441	0.59344	0.59593
3859665.77	0.55569	0.55435	0.55505
3859646.35	0.52106	0.51950	0.51980
3859626.93	0.49094	0.48904	0.48809
3859607.51	0.46611	0.46257	0.46023
3859588.09	0.44047	0.43762	0.43520
3859568.67	0.41658	0.41455	0.41213

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488802.97	3861310.09	0.64645	488863.58	3861309.29	0.67570
488847.63	3861279.78	0.69873	488850.82	3861262.24	0.72153
488810.14	3861261.44	0.70219	488810.94	3861289.36	0.66973
488819.72	3861306.90	0.65430	488816.53	3861235.92	0.73628
488841.25	3861126.66	0.94660	488879.53	3861121.88	0.99182
488913.82	3861121.08	1.03236	488925.79	3861092.37	1.13051
488920.03	3861067.49	1.20383	488996.74	3861113.92	1.15804
488974.03	3861097.77	1.19613	488931.63	3860976.64	1.42407
488935.67	3861034.68	1.32288	488959.90	3861061.43	1.30411
489165.81	3861208.80	1.06720	489317.74	3861109.28	1.62961
489385.87	3861014.75	2.85060	489372.24	3861112.69	1.65053
489420.79	3861106.73	1.71882	489436.12	3861037.74	2.51317
489488.07	3861036.89	2.64357	489473.59	3861110.99	1.70744
489431.01	3861167.20	1.34928	489662.66	3860915.95	8.08966
489644.78	3861076.07	2.09630	489659.26	3861099.06	1.83933
489735.91	3861020.71	3.01281	489700.14	3861029.23	2.87532
489708.65	3861062.44	2.30900	489779.34	3861099.06	1.88246
489835.95	3859138.59	0.16957	489885.95	3859138.59	0.16918
489935.95	3859138.59	0.16964	489985.95	3859138.59	0.16746
490035.95	3859138.59	0.16580	490085.95	3859138.59	0.16651
490135.95	3859138.59	0.16984	490185.95	3859138.59	0.17146
490235.95	3859138.59	0.17149	490285.95	3859138.59	0.16784
490335.95	3859138.59	0.16178	490385.95		

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3859138.59        0.15304
         490435.95    3859138.59        0.15147                        490485.95
3859138.59        0.14651
         490535.95    3859138.59        0.13915                        490585.95
3859138.59        0.13592
         490635.95    3859138.59        0.13140                        490685.95
3859138.59        0.12850
         490735.95    3859138.59        0.12821                        490785.95
3859138.59        0.12728
         490835.95    3859138.59        0.12521                        490885.95
3859138.59        0.12371
         489835.95    3859188.59        0.18418                        489885.95
3859188.59        0.18362
         489935.95    3859188.59        0.18445                        489985.95
3859188.59        0.18227
         490035.95    3859188.59        0.18314                        490085.95
3859188.59        0.18703
         490135.95    3859188.59        0.18760                        490185.95
3859188.59        0.18723
         490235.95    3859188.59        0.18450                        490285.95
3859188.59        0.18190
         490335.95    3859188.59        0.17926                        490385.95
3859188.59        0.17373
         490435.95    3859188.59        0.16740                        490485.95
3859188.59        0.15846
         490535.95    3859188.59        0.15443                        490585.95
3859188.59        0.15308
         490635.95    3859188.59        0.14707                        490685.95
3859188.59        0.13946
         490735.95    3859188.59        0.13620                        490785.95
3859188.59        0.13451
         490835.95    3859188.59        0.13999                        490885.95
3859188.59        0.13908
         489835.95    3859238.59        0.19974                        489885.95
3859238.59        0.20084
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        15:28:40

                                  PAGE  56
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
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, L0000019   , L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
         490635.95    3859288.59        0.21496                    490685.95
3859288.59        0.21215
         490735.95    3859288.59        0.20437                    490785.95
3859288.59        0.20414
         490835.95    3859288.59        0.20383                    490885.95
3859288.59        0.20184
         489835.95    3859338.59        0.24342                    489885.95
3859338.59        0.24544
         489935.95    3859338.59        0.24293                    489985.95
3859338.59        0.24500
         490035.95    3859338.59        0.24949                    490085.95
3859338.59        0.25534
         490135.95    3859338.59        0.25837                    490185.95
3859338.59        0.26043
         490235.95    3859338.59        0.26165                    490285.95
3859338.59        0.26137
         490335.95    3859338.59        0.25846                    490385.95
3859338.59        0.25749
         490435.95    3859338.59        0.25801                    490485.95
3859338.59        0.25761
         490535.95    3859338.59        0.25833                    490585.95
3859338.59        0.25818
         490635.95    3859338.59        0.25971                    490685.95
3859338.59        0.25511
         490735.95    3859338.59        0.24914                    490785.95
3859338.59        0.24672
         490835.95    3859338.59        0.25154                    490885.95
3859338.59        0.24808
         489835.95    3859388.59        0.26890                    489885.95
3859388.59        0.27113
         489935.95    3859388.59        0.27603                    489985.95
3859388.59        0.27762
         490035.95    3859388.59        0.28367                    490085.95
3859388.59        0.29031
         490135.95    3859388.59        0.29447                    490185.95
3859388.59        0.29719
         490235.95    3859388.59        0.29965                    490285.95
3859388.59        0.30327
         490335.95    3859388.59        0.30404                    490385.95
3859388.59        0.30700
         490435.95    3859388.59        0.31123                    490485.95
3859388.59        0.31379
         490535.95    3859388.59        0.31445                    490585.95
3859388.59        0.31605
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        15:28:40

                                PAGE  57
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         490635.95    3859388.59        0.31320                       490685.95
3859388.59        0.30178
         490735.95    3859388.59        0.28802                       490785.95
3859388.59        0.29343
         490835.95    3859388.59        0.30593                       490885.95
3859388.59        0.30728
         489835.95    3859438.59        0.30659                       489885.95
3859438.59        0.30866
         489935.95    3859438.59        0.31238                       489985.95
3859438.59        0.31862
         490035.95    3859438.59        0.32543                       490085.95
3859438.59        0.33080
         490135.95    3859438.59        0.33722                       490185.95
3859438.59        0.34305
         490235.95    3859438.59        0.34814                       490285.95
3859438.59        0.35351
         490335.95    3859438.59        0.35876                       490385.95
3859438.59        0.36396
         490435.95    3859438.59        0.36890                       490485.95
3859438.59        0.37202
         490535.95    3859438.59        0.37522                       490585.95
3859438.59        0.37701
         490635.95    3859438.59        0.37522                       490685.95
3859438.59        0.37186
         490735.95    3859438.59        0.37091                       490785.95
3859438.59        0.36382
         490835.95    3859438.59        0.36690                       490885.95
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3859438.59 0.36972
490085.95 3859488.59 0.38323 490135.95
3859488.59 0.39191
490185.95 3859488.59 0.40178 490235.95
3859488.59 0.41026
490285.95 3859488.59 0.41689 490335.95
3859488.59 0.42644
490385.95 3859488.59 0.43251 490435.95
3859488.59 0.43929
490485.95 3859488.59 0.44376 490535.95
3859488.59 0.44781
490585.95 3859488.59 0.44827 490635.95
3859488.59 0.44879
490685.95 3859488.59 0.44858 490735.95
3859488.59 0.44364
490785.95 3859488.59 0.43975 490835.95
3859488.59 0.43972
490885.95 3859488.59 0.43709 490085.95
3859538.59 0.45023
490135.95 3859538.59 0.46277 490185.95
3859538.59 0.47586
490235.95 3859538.59 0.48950 490285.95
3859538.59 0.50078
490335.95 3859538.59 0.50924 490385.95
3859538.59 0.51713
490435.95 3859538.59 0.52390 490485.95
3859538.59 0.52929
490535.95 3859538.59 0.53328 490585.95
3859538.59 0.53447
490635.95 3859538.59 0.53491 490685.95
3859538.59 0.53372
490735.95 3859538.59 0.52777 490785.95
3859538.59 0.52330
490835.95 3859538.59 0.51962 490885.95
3859538.59 0.50776
490135.95 3859588.59 0.55738 490185.95
3859588.59 0.57080
490235.95 3859588.59 0.58678 490285.95
3859588.59 0.60068
490335.95 3859588.59 0.61040 490385.95
3859588.59 0.62076
490435.95 3859588.59 0.62756 490485.95
3859588.59 0.63209
490535.95 3859588.59 0.63443 490585.95
3859588.59 0.63551
490635.95 3859588.59 0.63225 490685.95
3859588.59 0.62944
490735.95 3859588.59 0.62196 490785.95
3859588.59 0.61355
490835.95 3859588.59 0.60762 490885.95

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         490235.95   3859638.59   0.71005   490285.95
3859638.59   0.72488
         490335.95   3859638.59   0.73501   490385.95
3859638.59   0.74200
         490435.95   3859638.59   0.74916   490485.95
3859638.59   0.75199
         490535.95   3859638.59   0.75247   490585.95
3859638.59   0.75115
         490635.95   3859638.59   0.74479   490685.95
3859638.59   0.73722
         490735.95   3859638.59   0.72692   490785.95
3859638.59   0.71720
         490835.95   3859638.59   0.70963   490885.95
3859638.59   0.70206
         490135.95   3859688.59   0.83608   490185.95
3859688.59   0.85297
         490235.95   3859688.59   0.86653   490285.95
3859688.59   0.87436

490335.95 3859688.59 0.88377 490385.95 3859688.59 0.89082
490435.95 3859688.59 0.89146 490485.95 3859688.59 0.89082
490535.95 3859688.59 0.88651 490585.95 3859688.59 0.88180
490635.95 3859688.59 0.87166 490685.95 3859688.59 0.85897
490735.95 3859688.59 0.84499 490785.95 3859688.59 0.83165
490835.95 3859688.59 0.82087 490885.95 3859688.59 0.81740
490085.95 3859738.59 1.02574 490135.95 3859738.59 1.04275
490185.95 3859738.59 1.05517 490235.95 3859738.59 1.06250
490285.95 3859738.59 1.06564 490335.95 3859738.59 1.06756
490385.95 3859738.59 1.06261 490435.95 3859738.59 1.05866
490485.95 3859738.59 1.05011 490535.95 3859738.59 1.04231
490585.95 3859738.59 1.02927 490635.95 3859738.59 1.01368
490685.95 3859738.59 0.99704 490735.95 3859738.59 0.98094
490785.95 3859738.59 0.96635 490835.95 3859738.59 0.95055
490885.95 3859738.59 0.93636 490085.95 3859788.59 1.30428
490135.95 3859788.59 1.30893 490185.95 3859788.59 1.30761
490235.95 3859788.59 1.30152 490285.95 3859788.59 1.29158
490335.95 3859788.59 1.27968 490385.95 3859788.59 1.26570
490435.95 3859788.59 1.25235 490485.95 3859788.59 1.23511
490535.95 3859788.59 1.21426 490585.95 3859788.59 1.19622
490635.95 3859788.59 1.17121 490685.95 3859788.59 1.14762
490735.95 3859788.59 1.12944 490785.95 3859788.59 1.10803
490835.95 3859788.59 1.08400 490885.95 3859788.59 1.05300
490085.95 3859838.59 1.66116 490135.95 3859838.59 1.63982
490185.95 3859838.59 1.61460 490235.95 3859838.59 1.58670

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         490285.95    3859838.59        1.55610                      490335.95
3859838.59        1.52437
         490385.95    3859838.59        1.49399                      490435.95
3859838.59        1.46434
         490485.95    3859838.59        1.43490                      490535.95
3859838.59        1.40451
         490585.95    3859838.59        1.37324                      490635.95
3859838.59        1.34252
         490685.95    3859838.59        1.31391                      490735.95
3859838.59        1.28189
         490785.95    3859838.59        1.24710                      490835.95
3859838.59        1.21813
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                  PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         490885.95    3859838.59        1.18713                      490085.95
3859888.59        2.09316
         490135.95    3859888.59        2.02978                      490185.95
3859888.59        1.96964
         490235.95    3859888.59        1.90924                      490285.95
3859888.59        1.85044
         490335.95    3859888.59        1.79557                      490385.95
3859888.59        1.74285
         490435.95    3859888.59        1.69229                      490485.95
```

3859888.59 1.64582
490535.95 3859888.59 1.60309 490585.95
3859888.59 1.55976
490635.95 3859888.59 1.51702 490685.95
3859888.59 1.47630
490735.95 3859888.59 1.43729 490785.95
3859888.59 1.40030
490835.95 3859888.59 1.36301 490885.95
3859888.59 1.32082
490135.95 3859938.59 2.45938 490185.95
3859938.59 2.35277
490235.95 3859938.59 2.25472 490285.95
3859938.59 2.16385
490335.95 3859938.59 2.07823 490385.95
3859938.59 2.00069
490435.95 3859938.59 1.92739 490485.95
3859938.59 1.86050
490535.95 3859938.59 1.80451 490585.95
3859938.59 1.74911
490635.95 3859938.59 1.69413 490685.95
3859938.59 1.63992
490735.95 3859938.59 1.58914 490785.95
3859938.59 1.54226
490835.95 3859938.59 1.49730 490885.95
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3859988.59 2.74231
490235.95 3859988.59 2.60708 490285.95
3859988.59 2.48101
490335.95 3859988.59 2.36719 490385.95
3859988.59 2.25824
490435.95 3859988.59 2.16126 490485.95
3859988.59 2.07560
490535.95 3859988.59 1.99941 490585.95
3859988.59 1.93102
490635.95 3859988.59 1.86570 490685.95
3859988.59 1.80209
490735.95 3859988.59 1.74082 490785.95
3859988.59 1.68338
490835.95 3859988.59 1.62910 490885.95
3859988.59 1.57699
490135.95 3860038.59 3.31135 490185.95
3860038.59 3.11233
490235.95 3860038.59 2.93727 490285.95
3860038.59 2.77863
490335.95 3860038.59 2.63999 490385.95
3860038.59 2.50705
490435.95 3860038.59 2.38864 490485.95
3860038.59 2.28270
490535.95 3860038.59 2.18948 490585.95

```
3860038.59        2.10281
         490635.95    3860038.59        2.01928                        490685.95
3860038.59        1.94852
         490735.95    3860038.59        1.88378                        490785.95
3860038.59        1.81608
         490835.95    3860038.59        1.75211                        490885.95
3860038.59        1.69048
         490135.95    3860088.59        3.68796                        490185.95
3860088.59        3.45677
         490235.95    3860088.59        3.24723                        490285.95
3860088.59        3.06103
         490335.95    3860088.59        2.89161                        490385.95
3860088.59        2.73974
         490435.95    3860088.59        2.60244                        490485.95
3860088.59        2.47548
         490535.95    3860088.59        2.36579                        490585.95
3860088.59        2.26560
         490635.95    3860088.59        2.16989                        490685.95
3860088.59        2.08546
         490735.95    3860088.59        2.00855                        490785.95
3860088.59        1.93600
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                  PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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490835.95 3860088.59 1.86282 490885.95
3860088.59 1.79241
490135.95 3860138.59 4.01430 490185.95
3860138.59 3.75467
490235.95 3860138.59 3.51867 490285.95
3860138.59 3.31048
490335.95 3860138.59 3.12311 490385.95
3860138.59 2.95224
490435.95 3860138.59 2.79481 490485.95
3860138.59 2.65502
490535.95 3860138.59 2.53145 490585.95
3860138.59 2.41591
490635.95 3860138.59 2.30889 490685.95
3860138.59 2.20925
490735.95 3860138.59 2.11942 490785.95
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490835.95 3860138.59 1.95944 490885.95
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490935.95 3860138.59 1.80300 490985.95
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491035.95 3860138.59 1.67444 490135.95
3860188.59 4.29004
490185.95 3860188.59 4.00919 490235.95
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490285.95 3860188.59 3.52707 490335.95
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490385.95 3860188.59 3.13752 490435.95
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3860188.59 2.43284
490685.95 3860188.59 2.32612 490735.95
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490785.95 3860188.59 2.12985 490835.95
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490885.95 3860188.59 1.95668 490935.95
3860188.59 1.87459
490985.95 3860188.59 1.80211 491035.95
3860188.59 1.73154
491085.95 3860188.59 1.66283 491135.95
3860188.59 1.60372
490135.95 3860238.59 4.51390 490185.95
3860238.59 4.21867
490235.95 3860238.59 3.95161 490285.95
3860238.59 3.71159
490335.95 3860238.59 3.49484 490385.95
3860238.59 3.29808
490435.95 3860238.59 3.12025 490485.95
3860238.59 2.95430

```
         490535.95    3860238.59        2.80512                      490585.95
3860238.59        2.66861
         490635.95    3860238.59        2.54235                      490685.95
3860238.59        2.42537
         490735.95    3860238.59        2.31541                      490785.95
3860238.59        2.21262
         490835.95    3860238.59        2.11612                      490885.95
3860238.59        2.02684
         490935.95    3860238.59        1.94271                      490985.95
3860238.59        1.87233
         491035.95    3860238.59        1.79513                      491085.95
3860238.59        1.71878
         491135.95    3860238.59        1.65207                      490135.95
3860288.59        4.69505
         490185.95    3860288.59        4.38610                      490235.95
3860288.59        4.11288
         490285.95    3860288.59        3.86130                      490335.95
3860288.59        3.63356
         490385.95    3860288.59        3.42995                      490435.95
3860288.59        3.24168
         490485.95    3860288.59        3.06931                      490535.95
3860288.59        2.90865
         490585.95    3860288.59        2.76135                      490635.95
3860288.59        2.62783
         490685.95    3860288.59        2.50557                      490735.95
3860288.59        2.39037
         490785.95    3860288.59        2.28387                      490835.95
3860288.59        2.18153
         490885.95    3860288.59        2.08833                      490935.95
3860288.59        1.99732
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                  PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490985.95	3860288.59	1.92011	491035.95	3860288.59	1.84084
491085.95	3860288.59	1.76418	490135.95	3860338.59	4.83575
490185.95	3860338.59	4.51875	490235.95	3860338.59	4.23880
490285.95	3860338.59	3.97956	490335.95	3860338.59	3.74415
490385.95	3860338.59	3.53098	490435.95	3860338.59	3.33556
490485.95	3860338.59	3.15541	490535.95	3860338.59	2.99232
490585.95	3860338.59	2.83729	490635.95	3860338.59	2.69637
490685.95	3860338.59	2.56710	490735.95	3860338.59	2.44711
490785.95	3860338.59	2.34076	490835.95	3860338.59	2.23309
490885.95	3860338.59	2.13377	490935.95	3860338.59	2.03960
490985.95	3860338.59	1.95078	491035.95	3860338.59	1.87025
491085.95	3860338.59	1.79383	490135.95	3860388.59	4.93711
490185.95	3860388.59	4.61303	490235.95	3860388.59	4.32628
490285.95	3860388.59	4.06323	490335.95	3860388.59	3.82342
490385.95	3860388.59	3.60285	490435.95	3860388.59	3.40187
490485.95	3860388.59	3.21938	490535.95	3860388.59	3.04888
490585.95	3860388.59	2.89188	490635.95	3860388.59	2.74446
490685.95	3860388.59	2.61198	490735.95	3860388.59	2.48568
490785.95	3860388.59	2.37032	490835.95	3860388.59	2.26525
490135.95	3860438.59	4.99687	490185.95	3860438.59	4.67464
490235.95	3860438.59	4.38172	490285.95		

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3860438.59        4.11477
         490335.95    3860438.59        3.86802                      490385.95
3860438.59        3.64568
         490435.95    3860438.59        3.44106                      490485.95
3860438.59        3.25204
         490535.95    3860438.59        3.07998                      490585.95
3860438.59        2.91840
         490635.95    3860438.59        2.76886                      490685.95
3860438.59        2.63264
         490735.95    3860438.59        2.50820                      490785.95
3860438.59        2.38903
         490835.95    3860438.59        2.28365                      490135.95
3860488.59        5.03225
         490185.95    3860488.59        4.70291                      490235.95
3860488.59        4.40084
         490285.95    3860488.59        4.13327                      490335.95
3860488.59        3.88364
         490385.95    3860488.59        3.65999                      490435.95
3860488.59        3.45937
         490485.95    3860488.59        3.26583                      490535.95
3860488.59        3.08606
         490585.95    3860488.59        2.92111                      490635.95
3860488.59        2.77294
         490685.95    3860488.59        2.63121                      490735.95
3860488.59        2.50501
         490785.95    3860488.59        2.38703                      490135.95
3860538.59        5.02893
         490185.95    3860538.59        4.70566                      490235.95
3860538.59        4.38907
         490285.95    3860538.59        4.11387                      490335.95
3860538.59        3.86817
         490385.95    3860538.59        3.64768                      490435.95
3860538.59        3.44209
         490485.95    3860538.59        3.25387                      490535.95
3860538.59        3.09046
         490585.95    3860538.59        2.90745                      490635.95
3860538.59        2.75325
         490685.95    3860538.59        2.61515                      490735.95
3860538.59        2.48503
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                  PAGE  62
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
```

```
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         490785.95    3860538.59        2.36709                       490135.95
3860588.59        5.00002
         490185.95    3860588.59        4.60481                       490235.95
3860588.59        4.32577
         490285.95    3860588.59        4.06255                       490335.95
3860588.59        3.81457
         490385.95    3860588.59        3.58842                       490435.95
3860588.59        3.40452
         490485.95    3860588.59        3.22606                       490535.95
3860588.59        3.04662
         490585.95    3860588.59        2.85759                       490635.95
3860588.59        2.71035
         490685.95    3860588.59        2.57240                       490735.95
3860588.59        2.44559
         490785.95    3860588.59        2.32605                       490135.95
3860638.59        4.92558
         490185.95    3860638.59        4.57131                       490235.95
3860638.59        4.24026
         490285.95    3860638.59        3.96113                       490335.95
3860638.59        3.72358
         490385.95    3860638.59        3.50274                       490435.95
3860638.59        3.29736
         490485.95    3860638.59        3.11423                       490535.95
3860638.59        2.95361
         490585.95    3860638.59        2.79094                       490635.95
3860638.59        2.64768
         490685.95    3860638.59        2.51256                       490735.95
3860638.59        2.38324
         490785.95    3860638.59        2.26973                       490135.95
3860688.59        4.76640
         490185.95    3860688.59        4.45406                       490235.95
3860688.59        4.13111
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         490285.95    3860688.59        3.81645                    490335.95
3860688.59        3.59164
         490385.95    3860688.59        3.38175                    490435.95
3860688.59        3.18230
         490485.95    3860688.59        2.99537                    490535.95
3860688.59        2.83516
         490585.95    3860688.59        2.68842                    490635.95
3860688.59        2.55385
         490685.95    3860688.59        2.43160                    490735.95
3860688.59        2.31184
         490785.95    3860688.59        2.20678                    490135.95
3860738.59        4.51269
         490185.95    3860738.59        4.16954                    490235.95
3860738.59        3.88356
         490285.95    3860738.59        3.63561                    490335.95
3860738.59        3.41265
         490385.95    3860738.59        3.21443                    490435.95
3860738.59        3.05091
         490485.95    3860738.59        2.87294                    490535.95
3860738.59        2.69800
         490585.95    3860738.59        2.55487                    490635.95
3860738.59        2.42842
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3860738.59        2.21554
         490785.95    3860738.59        2.12194                    490135.95
3860788.59        4.16856
         490185.95    3860788.59        3.87714                    490235.95
3860788.59        3.61696
         490285.95    3860788.59        3.38801                    490335.95
3860788.59        3.17939
         490385.95    3860788.59        3.00813                    490435.95
3860788.59        2.84157
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3860788.59        2.55173
         490585.95    3860788.59        2.40569                    490635.95
3860788.59        2.28609
         490685.95    3860788.59        2.18200                    490735.95
3860788.59        2.09046
         490785.95    3860788.59        1.99749                    489985.95
3860838.59        4.79483
         490035.95    3860838.59        4.41229                    490085.95
3860838.59        4.09115
         490135.95    3860838.59        3.80888                    490185.95
3860838.59        3.54072
         490235.95    3860838.59        3.30771                    490285.95
3860838.59        3.10959
         490335.95    3860838.59        2.92358                    490385.95
3860838.59        2.76049
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490435.95	3860838.59	2.62184	490485.95	3860838.59	2.49142
490535.95	3860838.59	2.36679	490585.95	3860838.59	2.24618
490635.95	3860838.59	2.13579	490685.95	3860838.59	2.04110
490735.95	3860838.59	1.95819	490785.95	3860838.59	1.87786
490835.95	3860838.59	1.80016	489835.95	3860888.59	5.62386
489885.95	3860888.59	5.04869	489935.95	3860888.59	4.58702
489985.95	3860888.59	4.21410	490035.95	3860888.59	3.89747
490085.95	3860888.59	3.63149	490135.95	3860888.59	3.38861
490185.95	3860888.59	3.16687	490235.95	3860888.59	2.97549
490285.95	3860888.59	2.80367	490335.95	3860888.59	2.64624
490385.95	3860888.59	2.51352	490435.95	3860888.59	2.39467
490485.95	3860888.59	2.28056	490535.95		

3860888.59 2.17333
490585.95 3860888.59 2.07155 490635.95
3860888.59 1.97604
490685.95 3860888.59 1.89144 490735.95
3860888.59 1.81460
490785.95 3860888.59 1.74049 490835.95
3860888.59 1.67576
490885.95 3860888.59 1.61876 490935.95
3860888.59 1.55989
489835.95 3860938.59 4.49247 489885.95
3860938.59 4.11633
489935.95 3860938.59 3.81309 489985.95
3860938.59 3.55268
490035.95 3860938.59 3.32367 490085.95
3860938.59 3.12059
490135.95 3860938.59 2.92672 490185.95
3860938.59 2.76877
490235.95 3860938.59 2.62364 490285.95
3860938.59 2.49335
490335.95 3860938.59 2.36578 490385.95
3860938.59 2.26040
490435.95 3860938.59 2.16251 490485.95
3860938.59 2.06673
490535.95 3860938.59 1.97908 490585.95
3860938.59 1.89311
490635.95 3860938.59 1.81329 490685.95
3860938.59 1.74081
490735.95 3860938.59 1.67343 490785.95
3860938.59 1.61108
490835.95 3860938.59 1.55783 490885.95
3860938.59 1.50870
490935.95 3860938.59 1.45672 489835.95
3860988.59 3.43615
489885.95 3860988.59 3.25416 489935.95
3860988.59 3.08106
489985.95 3860988.59 2.92212 490035.95
3860988.59 2.77305
490085.95 3860988.59 2.64045 490135.95
3860988.59 2.51207
490185.95 3860988.59 2.40246 490235.95
3860988.59 2.28613
490285.95 3860988.59 2.18381 490335.95
3860988.59 2.09228
490385.95 3860988.59 2.00807 490435.95
3860988.59 1.93639
490485.95 3860988.59 1.85991 490535.95
3860988.59 1.78510
490585.95 3860988.59 1.71636 490635.95
3860988.59 1.65405
490685.95 3860988.59 1.59217 490735.95

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

490635.95 3861038.59 1.49588 490685.95
3861038.59 1.44589
490735.95 3861038.59 1.39937 490785.95
3861038.59 1.35703
490835.95 3861038.59 1.31784 490885.95
3861038.59 1.28012
490935.95 3861038.59 1.24480 489835.95
3861088.59 1.99681
489885.95 3861088.59 1.97494 489935.95
3861088.59 1.94573
489985.95 3861088.59 1.90861 490035.95
3861088.59 1.86855
490085.95 3861088.59 1.82930 490135.95
3861088.59 1.79054
490185.95 3861088.59 1.75264 490235.95
3861088.59 1.69977
490285.95 3861088.59 1.64947 490335.95
3861088.59 1.59913
490385.95 3861088.59 1.55912 490435.95
3861088.59 1.51607
490485.95 3861088.59 1.47401 490535.95
3861088.59 1.43547
490585.95 3861088.59 1.39186 490635.95
3861088.59 1.34751
490685.95 3861088.59 1.30774 490735.95
3861088.59 1.27159
490785.95 3861088.59 1.23696 490835.95
3861088.59 1.20414
490885.95 3861088.59 1.17300 490935.95
3861088.59 1.14412
489835.95 3861138.59 1.57016 489885.95
3861138.59 1.56827
489935.95 3861138.59 1.55937 489985.95
3861138.59 1.54610
490035.95 3861138.59 1.53197 490085.95
3861138.59 1.51940
490135.95 3861138.59 1.50186 490185.95
3861138.59 1.48137
490235.95 3861138.59 1.45680 490285.95
3861138.59 1.42672
490335.95 3861138.59 1.39471 490385.95
3861138.59 1.36460
490435.95 3861138.59 1.33396 490485.95
3861138.59 1.30427
490535.95 3861138.59 1.27466 490585.95
3861138.59 1.24323
490635.95 3861138.59 1.20959 490685.95
3861138.59 1.18019
490735.95 3861138.59 1.15236 490785.95
3861138.59 1.12513

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489228.46   489247.76   489267.06
      489286.36   489305.66
 -
- -

 3859957.1 | 215.71821 (18010221)   233.36101 (20022718)   245.81265 (20040918)
   244.36770 (20040918)   233.92639 (20040918)
 3859937.6 | 209.88704 (18010221)   220.86970 (20022718)   235.44147 (20040918)
   235.05624 (20040918)   226.56962 (20040918)
 3859918.2 | 203.82058 (18010221)   210.96485 (20022718)   226.59092 (20040918)
   228.26297 (20040918)   220.23761 (20040918)
 3859898.8 | 197.18949 (18010221)   201.74574 (20022718)   217.07785 (20040918)
   219.25220 (20040918)   212.67947 (20040918)
 3859879.4 | 190.63614 (18010221)   193.12525 (20022718)   208.07701 (20040918)
   210.45876 (20040918)   204.36519 (20040918)
 3859860.0 | 184.13344 (18010221)   185.17330 (20022718)   200.16759 (20040918)
   203.67644 (20040918)   198.57608 (20040918)
 3859840.5 | 178.34457 (18010221)   178.60215 (20022718)   193.57689 (20040918)
   197.44004 (20040918)   193.45292 (20040918)
 3859821.1 | 173.52955 (18010221)   172.88667 (20022718)   187.60924 (20040918)

  192.13619 (20040918)   188.51250 (20040918)
 3859801.7 | 168.45291 (18010221)   168.00322 (20022718)   181.59152 (20040918)
  186.36862 (20040918)   184.14279 (20040918)
 3859782.3 | 163.33801 (18010221)   163.26137 (20022718)   176.32018 (20040918)
  181.52634 (20040918)   180.01775 (20040918)
 3859762.9 | 158.66734 (18010221)   158.47172 (20022718)   171.16072 (20040918)
  177.01322 (20040918)   176.09713 (20040918)
 3859743.4 | 154.25810 (18010221)   154.09634 (16122922)   166.28310 (20040918)
  172.18092 (20040918)   171.71207 (20040918)
 3859724.0 | 150.12706 (18010221)   150.18129 (16122922)   161.71752 (20040918)
  167.62470 (20040918)   167.54374 (20040918)
 3859704.6 | 146.41321 (18010221)   146.65071 (20040918)   157.90180 (20040918)
  163.32561 (20040918)   163.47972 (20040918)
 3859685.2 | 142.79442 (18010221)   143.45949 (16122922)   153.87843 (20040918)
  158.65668 (20040918)   158.55190 (20040918)
 3859665.8 | 139.53571 (18010221)   139.86965 (16122922)   149.54472 (20040918)
  153.87849 (20040918)   154.03596 (20040918)
 3859646.4 | 136.39833 (18010221)   136.75461 (16122922)   147.02636 (20040918)
  151.79023 (20040918)   152.22421 (20040918)
 3859626.9 | 133.33139 (18010221)   134.11597 (16122922)   144.33989 (20040918)
  149.02604 (20040918)   149.82077 (20040918)
 3859607.5 | 130.61028 (18010221)   131.63514 (16122922)   141.13235 (20040918)
  146.00587 (20040918)   146.90746 (20040918)
 3859588.1 | 128.08540 (18010221)   129.65826 (20040918)   138.94919 (20040918)
  143.53288 (20040918)   144.47198 (20040918)
 3859568.7 | 125.47659 (18010221)   127.92116 (20040918)   136.51276 (20040918)
  141.11578 (20040918)   142.06504 (20040918)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                   *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	489324.96	489344.26	489363.56	489382.86	489402.16
3859957.1	220.95340 (15120819)	217.98937 (15120819)	209.44631 (15120819)	198.14787 (15120819)	186.42699 (15120819)
3859937.6	213.34621 (20040918)	211.23725 (15120819)	203.83691 (15120819)	193.68333 (15120819)	182.92854 (15120819)
3859918.2	207.54290 (20040918)	204.43485 (15120819)	198.59877 (15120819)	189.42983 (15120819)	179.50272 (15120819)
3859898.8	201.89321 (20040918)	197.70905 (15120819)	193.64211 (15120819)	185.24932 (15120819)	176.32642 (15120819)
3859879.4	194.42805 (20040918)	189.65355 (15120819)	187.80395 (15120819)	181.19212 (15120819)	173.15536 (15120819)
3859860.0	189.51088 (20040918)	183.37814 (15120819)	182.15318 (15120819)	177.20216 (15120819)	169.94658 (15120819)
3859840.5	185.07129 (20040918)	177.96873 (15120819)	176.69984 (15120819)	173.11615 (15120819)	166.69894 (15120819)
3859821.1	180.65577 (20040918)	174.05972 (15120819)	173.70414 (15120819)	169.39799 (15120819)	163.63102 (15120819)
3859801.7	176.09297 (20040918)	168.41161 (20040918)	168.67265 (15120819)	165.28478 (15120819)	160.18979 (15120819)
3859782.3	172.01863 (20040918)	164.99524 (20040918)	164.45752 (15120819)	161.76480 (15120819)	157.27393 (15120819)
3859762.9	170.12645 (20040918)	162.46661 (20040918)	161.41746 (15120819)	159.40825 (15120819)	155.13245 (15120819)
3859743.4	166.42112 (20040918)	159.54659 (20040918)	157.63935 (15120819)	156.10574 (15120819)	152.51975 (15120819)
3859724.0	162.83371 (20040918)	156.66385 (20040918)	153.76719 (15120819)	152.76531 (15120819)	149.85000 (15120819)
3859704.6	159.34447 (20040918)	153.45018 (20040918)	149.77710 (15120819)	149.59174 (15120819)	147.06552 (15120819)
3859685.2	155.69003 (20040918)	150.62753 (20040918)	146.11080 (15120819)	146.63097 (15120819)	144.52218 (15120819)
3859665.8	151.36787 (20040918)	147.94258 (20040918)	143.09883 (20040918)	144.00586 (15120819)	142.41742 (15120819)
3859646.4	149.96221 (20040918)	145.62171 (20040918)	140.76738 (20040918)	141.05049 (15120819)	140.06150 (15120819)
3859626.9	147.48137 (20040918)	143.22551 (20040918)	138.74475 (20040918)	138.35855 (15120819)	137.67005 (15120819)
3859607.5	144.72591 (20040918)	140.96394 (20040918)	136.69911 (20040918)	135.53651 (15120819)	135.30741 (15120819)
3859588.1	142.48432 (20040918)	138.80115 (20040918)	134.82231 (20040918)	133.16947 (15120819)	133.21937 (15120819)
3859568.7	140.10434 (20040918)	136.61055 (20040918)	132.84345 (20040918)	130.83568 (15120819)	131.06022 (15120819)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	489421.46	489440.76	489460.06	489479.36	489498.66
3859957.1	175.85290 (15120819)	175.99119 (20022718)	182.40933 (20040918)	187.48497 (20040918)	189.04445 (20040918)
3859937.6	173.64744 (15120819)	171.83183 (20040918)	178.51175 (20040918)	182.11667 (20040918)	183.15371 (20040918)
3859918.2	170.27475 (15120819)	168.30113 (20040918)	174.33994 (20040918)	178.97134 (20040918)	180.18245 (20040918)
3859898.8	167.98030 (15120819)	165.27318 (20040918)	170.47833 (20040918)	174.50909 (20040918)	175.14528 (20040918)
3859879.4	165.69599 (15120819)	162.35520 (20040918)	166.28133 (20040918)	170.44930 (20040918)	169.85728 (20040918)
3859860.0	162.86856 (15120819)	159.22799 (20040918)	162.42794 (20040918)	164.97472 (20040918)	164.78242 (20040918)
3859840.5	160.21618 (15120819)	155.86990 (20040918)	158.59637 (20040918)	160.41476 (20040918)	159.64535 (20040918)
3859821.1	157.66935 (15120819)	152.92233 (15120819)	155.04593 (20040918)	156.12191 (20040918)	155.41253 (20040918)
3859801.7	155.03616 (15120819)	150.54976 (15120819)	151.33223 (20040918)	152.45758 (20040918)	150.85150 (20040918)
3859782.3	152.39991 (15120819)	148.13797 (15120819)	147.72559 (20040918)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489517.96	489537.26	489556.56

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      489575.86              489595.16
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489614.46
3859957.1	150.08447 (16010405)
3859937.6	156.60085 (16010405)
3859918.2	157.63466 (16010405)
3859898.8	156.99442 (16010405)
3859879.4	157.36379 (16010405)
3859860.0	154.78641 (16010405)
3859840.5	152.37521 (16010405)
3859821.1	149.36801 (16010405)
3859801.7	146.22201 (16010405)
3859782.3	143.45024 (16010405)
3859762.9	140.23348 (16010405)
3859743.4	137.12647 (16010405)
3859724.0	134.12094 (16010405)
3859704.6	131.25287 (16010405)
3859685.2	128.89251 (15112019)
3859665.8	126.70807 (15112019)
3859646.4	124.66350 (15112019)
3859626.9	122.60808 (15112019)
3859607.5	120.68975 (15112019)
3859588.1	118.81613 (15112019)
3859568.7	116.93133 (15112019)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488802.97	3861310.09	65.11810	(19120419)	488863.58	3861309.29	70.52263	(19120419)
488847.63	3861279.78	68.66962	(19120419)	488850.82	3861262.24	68.71571	(19120419)
488810.14	3861261.44	64.56249	(19120419)	488810.94	3861289.36	65.22315	(19120419)
488819.72	3861306.90	66.31117	(19120419)	488816.53	3861235.92	64.54676	(20112808)
488841.25	3861126.66	70.90482	(20112808)	488879.53	3861121.88	72.98966	(20112808)
488913.82	3861121.08	75.47430	(19120419)	488925.79	3861092.37	78.23394	(20112808)
488920.03	3861067.49	80.03493	(20112808)	488996.74	3861113.92	87.45421	(19120419)
488974.03	3861097.77	86.02756	(19120419)	488931.63	3860976.64	81.82593	(16012108)
488935.67	3861034.68	83.66579	(16102717)	488959.90	3861061.43	85.24928	(19120419)
489165.81	3861208.80	108.39685	(16121423)	489317.74	3861109.28	133.42987	(15010420)
489385.87	3861014.75	142.53723	(20010422)	489372.24	3861112.69	126.26240	(16110822)
489420.79	3861106.73	123.59799	(18010302)	489436.12	3861037.74	131.20564	(15121820)

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        489488.07   3861036.89      132.66971  (20010422)              489473.59
3861110.99      121.06743  (15121820)
        489431.01   3861167.20      116.38895  (18010302)              489662.66
3860915.95      119.65710  (20010318)
        489644.78   3861076.07      118.45077  (19122119)              489659.26
3861099.06      112.53049  (19122119)
        489735.91   3861020.71      100.09326  (20010318)              489700.14
3861029.23      109.48079  (20010318)
        489708.65   3861062.44      107.15068  (20010318)              489779.34
3861099.06       92.03364  (20010318)
        489835.95   3859138.59       86.26759  (16010405)              489885.95
3859138.59       84.42498  (16010405)
        489935.95   3859138.59       78.60624  (16010405)              489985.95
3859138.59       80.31122  (15121808)
        490035.95   3859138.59       79.98632  (15121808)              490085.95
3859138.59       77.69671  (15121808)
        490135.95   3859138.59       73.19015  (15121808)              490185.95
3859138.59       66.25123  (20121324)
        490235.95   3859138.59       65.53592  (20121324)              490285.95
3859138.59       61.37672  (20121324)
        490335.95   3859138.59       53.94646  (20121324)              490385.95
3859138.59       47.02002  (15013024)
        490435.95   3859138.59       43.16197  (19111222)              490485.95
3859138.59       39.05229  (19111222)
        490535.95   3859138.59       32.61850  (19111222)              490585.95
3859138.59       27.63059  (19111222)
        490635.95   3859138.59       22.74502  (19122909)              490685.95
3859138.59       20.68299  (19122909)
        490735.95   3859138.59       18.39966  (19122909)              490785.95
3859138.59       17.61659  (18011120)
        490835.95   3859138.59       15.85890  (18011120)              490885.95
3859138.59       13.84289  (18011120)
        489835.95   3859188.59       89.12137  (16010405)              489885.95
3859188.59       85.56899  (16010405)
        489935.95   3859188.59       82.95425  (15121808)              489985.95
3859188.59       84.01355  (15121808)
        490035.95   3859188.59       83.41083  (15121808)              490085.95
3859188.59       80.41550  (15121808)
        490135.95   3859188.59       72.33265  (15121808)              490185.95
3859188.59       68.49240  (20121324)
        490235.95   3859188.59       65.52302  (20121324)              490285.95
3859188.59       60.16574  (20121324)
        490335.95   3859188.59       54.71166  (15013024)              490385.95
3859188.59       49.49745  (15013024)
        490435.95   3859188.59       43.74850  (19111222)              490485.95
3859188.59       37.10790  (19111222)
        490535.95   3859188.59       31.58550  (19111222)              490585.95
3859188.59       27.26272  (19111222)
        490635.95   3859188.59       22.24704  (18031023)              490685.95
3859188.59       19.42661  (18011120)
```

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        489935.95   3859238.59   87.34944 (15121808)   489985.95
3859238.59   86.08964 (15121808)
        490035.95   3859238.59   84.37410 (15121808)   490085.95
3859238.59   79.67795 (15121808)
        490135.95   3859238.59   72.00260 (20121324)   490185.95
3859238.59   70.92946 (20121324)
        490235.95   3859238.59   66.30421 (20121324)   490285.95
3859238.59   59.30913 (15013024)
        490335.95   3859238.59   54.85781 (15013024)   490385.95
3859238.59   49.49168 (15013024)
        490435.95   3859238.59   44.68706 (19111222)   490485.95
3859238.59   40.16260 (19111222)
        490535.95   3859238.59   33.78544 (19111222)   490585.95
3859238.59   27.54660 (18011120)
        490635.95   3859238.59   26.16129 (18011120)   490685.95

3859238.59 25.54361 (18011120)
490735.95 3859238.59 21.76912 (18011120) 490785.95
3859238.59 20.45468 (18011120)
490835.95 3859238.59 18.13308 (18011120) 490885.95
3859238.59 17.06158 (18050322)
489835.95 3859288.59 93.14466 (16010405) 489885.95
3859288.59 89.15765 (15121808)
489935.95 3859288.59 91.14041 (15121808) 489985.95
3859288.59 88.00527 (15121808)
490035.95 3859288.59 85.00982 (15121808) 490085.95
3859288.59 77.38463 (15121808)
490135.95 3859288.59 74.09542 (20121324) 490185.95
3859288.59 71.52032 (20121324)
490235.95 3859288.59 65.62519 (20121324) 490285.95
3859288.59 62.54866 (15013024)
490335.95 3859288.59 56.61698 (15013024) 490385.95
3859288.59 49.35098 (16010120)
490435.95 3859288.59 43.61077 (19111222) 490485.95
3859288.59 40.96362 (19111222)
490535.95 3859288.59 39.01766 (19111222) 490585.95
3859288.59 34.17054 (18011120)
490635.95 3859288.59 33.46311 (18011120) 490685.95
3859288.59 31.18324 (18011120)
490735.95 3859288.59 26.41905 (18011120) 490785.95
3859288.59 23.78828 (18050322)
490835.95 3859288.59 23.17914 (18050322) 490885.95
3859288.59 21.65312 (18050322)
489835.95 3859338.59 94.53504 (16010405) 489885.95
3859338.59 94.92809 (15121808)
489935.95 3859338.59 94.22808 (15121808) 489985.95
3859338.59 91.29389 (15121808)
490035.95 3859338.59 84.85283 (15121808) 490085.95
3859338.59 77.15968 (20121324)
490135.95 3859338.59 75.39526 (20121324) 490185.95
3859338.59 71.17880 (20121324)
490235.95 3859338.59 68.06202 (15013024) 490285.95
3859338.59 64.60798 (15013024)
490335.95 3859338.59 58.12538 (15013024) 490385.95
3859338.59 52.90566 (16010120)
490435.95 3859338.59 49.22726 (19111222) 490485.95
3859338.59 44.47381 (19111222)
490535.95 3859338.59 40.47038 (19111222) 490585.95
3859338.59 39.25280 (18011120)
490635.95 3859338.59 37.64392 (18011120) 490685.95
3859338.59 34.00063 (18011120)
490735.95 3859338.59 30.75125 (19120108) 490785.95
3859338.59 28.47347 (18050322)
490835.95 3859338.59 28.16836 (18050322) 490885.95
3859338.59 25.88027 (18050322)
489835.95 3859388.59 96.25834 (15121808) 489885.95

3859388.59   98.82959 (15121808)
        489935.95   3859388.59   98.16456 (15121808)   489985.95
3859388.59   92.32304 (15121808)
        490035.95   3859388.59   83.25347 (15121808)   490085.95
3859388.59   79.00001 (20121324)
        490135.95   3859388.59   75.38298 (20121324)   490185.95
3859388.59   71.94953 (15013024)
        490235.95   3859388.59   69.75988 (15013024)   490285.95
3859388.59   65.94851 (15013024)
        490335.95   3859388.59   60.79103 (16010120)   490385.95
3859388.59   56.68082 (19111222)
        490435.95   3859388.59   53.55571 (19111222)   490485.95
3859388.59   49.34209 (19111222)
        490535.95   3859388.59   44.32189 (19111222)   490585.95
3859388.59   41.17512 (18011120)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                            ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
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        489835.95   3859438.59      102.97811  (15121808)                489885.95
3859438.59      103.43819  (15121808)
        489935.95   3859438.59       99.71085  (15121808)                489985.95
3859438.59       91.55073  (15121808)
        490035.95   3859438.59       82.50282  (20121324)                490085.95
3859438.59       79.36399  (20121324)
        490135.95   3859438.59       75.33438  (15013024)                490185.95
3859438.59       73.79958  (15013024)
        490235.95   3859438.59       70.60103  (15013024)                490285.95
3859438.59       66.08698  (16010120)
        490335.95   3859438.59       62.58269  (16010120)                490385.95
3859438.59       58.85037  (19111222)
        490435.95   3859438.59       54.96513  (19111222)                490485.95
3859438.59       50.08139  (19111222)
        490535.95   3859438.59       45.15807  (20022004)                490585.95
3859438.59       45.07755  (19120108)
        490635.95   3859438.59       44.22918  (19120108)                490685.95
3859438.59       41.97394  (19120108)
        490735.95   3859438.59       39.30504  (19120108)                490785.95
3859438.59       36.09517  (19120108)
        490835.95   3859438.59       33.89906  (18050322)                490885.95
3859438.59       32.56735  (18050322)
        490085.95   3859488.59       78.36100  (15013024)                490135.95
3859488.59       77.21554  (15013024)
        490185.95   3859488.59       74.54341  (15013024)                490235.95
3859488.59       70.10831  (15013024)
        490285.95   3859488.59       66.97909  (16010120)                490335.95
3859488.59       63.04796  (19111222)
        490385.95   3859488.59       59.50261  (19111222)                490435.95
3859488.59       55.10813  (19111222)
        490485.95   3859488.59       51.23257  (20022004)                490535.95
3859488.59       49.11249  (19120108)
        490585.95   3859488.59       48.25955  (19120108)                490635.95
3859488.59       46.70429  (19120108)
        490685.95   3859488.59       44.88149  (19120108)                490735.95
3859488.59       41.97334  (19120108)
        490785.95   3859488.59       38.79867  (19120108)                490835.95
3859488.59       36.16358  (18050322)
        490885.95   3859488.59       34.32015  (18050322)                490085.95
3859538.59       80.45868  (15013024)
        490135.95   3859538.59       78.05216  (15013024)                490185.95
3859538.59       73.77037  (15013024)
        490235.95   3859538.59       70.68851  (16010120)                490285.95
3859538.59       66.75106  (16010120)
        490335.95   3859538.59       62.90728  (19111222)                490385.95
3859538.59       59.83681  (20022004)
        490435.95   3859538.59       56.57544  (20120808)                490485.95
3859538.59       53.60371  (19120108)
        490535.95   3859538.59       52.93545  (19120108)                490585.95
3859538.59       51.74661  (19120108)
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        490635.95   3859538.59       50.16977  (19120108)               490685.95
3859538.59       48.06748  (19120108)
        490735.95   3859538.59       44.67502  (19120108)               490785.95
3859538.59       41.42131  (19120108)
        490835.95   3859538.59       38.16200  (19120108)               490885.95
3859538.59       34.91942  (18050322)
        490135.95   3859588.59       76.91766  (15013024)               490185.95
3859588.59       73.72662  (16010120)
        490235.95   3859588.59       69.54655  (16010120)               490285.95
3859588.59       65.95101  (20022004)
        490335.95   3859588.59       63.86082  (20120808)               490385.95
3859588.59       61.63556  (20120808)
        490435.95   3859588.59       58.13487  (20120808)               490485.95
3859588.59       56.92281  (19120108)
        490535.95   3859588.59       56.00663  (19120108)               490585.95
3859588.59       54.95062  (19120108)
        490635.95   3859588.59       52.91795  (19120108)               490685.95
3859588.59       50.74437  (19120108)
        490735.95   3859588.59       47.22643  (19120108)               490785.95
3859588.59       43.21210  (19120108)
        490835.95   3859588.59       39.82844  (19120108)               490885.95
3859588.59       37.06917  (18050322)
        490135.95   3859638.59       76.78622  (16010120)               490185.95
3859638.59       71.79181  (16010120)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                  PAGE  73
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
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3859788.59       77.95277  (16010120)
        490135.95   3859788.59       75.10780  (20120808)                490185.95
3859788.59       71.02570  (20120808)
        490235.95   3859788.59       67.02076  (20120808)                490285.95
3859788.59       63.75571  (19120108)
        490335.95   3859788.59       62.25543  (19120108)                490385.95
3859788.59       60.77150  (19120108)
        490435.95   3859788.59       61.28061  (19120108)                490485.95
3859788.59       63.19749  (19120108)
        490535.95   3859788.59       63.63924  (19120108)                490585.95
3859788.59       62.40916  (19120108)
        490635.95   3859788.59       59.56157  (19120108)                490685.95
3859788.59       56.82497  (19120108)
        490735.95   3859788.59       55.33812  (19120108)                490785.95
3859788.59       53.14018  (19120108)
        490835.95   3859788.59       50.59983  (19120108)                490885.95
3859788.59       46.73956  (19120108)
        490085.95   3859838.59       78.43782  (20120808)                490135.95
3859838.59       74.36682  (20120808)
        490185.95   3859838.59       69.69803  (20120808)                490235.95
3859838.59       66.98304  (19120108)
        490285.95   3859838.59       65.18964  (19120108)                490335.95
3859838.59       63.35433  (19120108)
        490385.95   3859838.59       61.76920  (19120108)                490435.95
3859838.59       60.75772  (19120108)
        490485.95   3859838.59       61.15062  (19120108)                490535.95
3859838.59       63.89753  (19120108)
        490585.95   3859838.59       62.31674  (19120108)                490635.95
3859838.59       60.19744  (19120108)
        490685.95   3859838.59       58.04027  (19120108)                490735.95
3859838.59       55.57474  (19120108)
        490785.95   3859838.59       52.71336  (19120108)                490835.95
3859838.59       50.52068  (19120108)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                   PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
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, L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490885.95	3859838.59	48.22687	(19120108)	490085.95	3859888.59	77.63758	(20120808)
490135.95	3859888.59	72.77804	(20120808)	490185.95	3859888.59	70.39481	(19120108)
490235.95	3859888.59	68.38900	(19120108)	490285.95	3859888.59	66.02633	(19120108)
490335.95	3859888.59	64.34949	(19120108)	490385.95	3859888.59	62.48062	(19120108)
490435.95	3859888.59	60.42032	(19120108)	490485.95	3859888.59	58.98856	(19120108)
490535.95	3859888.59	59.80168	(19120108)	490585.95	3859888.59	60.91801	(19120108)
490635.95	3859888.59	58.51885	(19120108)	490685.95	3859888.59	56.00433	(19120108)
490735.95	3859888.59	53.73002	(19120108)	490785.95	3859888.59	51.28963	(19120108)
490835.95	3859888.59	48.77928	(19120108)	490885.95	3859888.59	46.43469	(19120108)
490135.95	3859938.59	73.92821	(19120108)	490185.95	3859938.59	71.64810	(19120108)
490235.95	3859938.59	69.26686	(19120108)	490285.95	3859938.59	66.98725	(19120108)
490335.95	3859938.59	64.63506	(19120108)	490385.95	3859938.59	62.56283	(19120108)
490435.95	3859938.59	60.51127	(19120108)	490485.95	3859938.59	58.53803	(19120108)
490535.95	3859938.59	57.30543	(19120108)	490585.95	3859938.59	58.48501	(19120108)
490635.95	3859938.59	56.16680	(19120108)	490685.95	3859938.59	53.80208	(19120108)
490735.95	3859938.59	51.53342	(19120108)	490785.95	3859938.59	48.68129	(19120108)
490835.95	3859938.59	46.95239	(16010208)	490885.95	3859938.59	45.41148	(16010208)
490135.95	3859988.59	75.56167	(19120108)	490185.95	3859988.59	72.88317	(19120108)
490235.95	3859988.59	71.87157	(19120108)	490285.95	3859988.59	68.45216	(19120108)

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        490335.95   3859988.59       65.37738  (19120108)                490385.95
3859988.59       62.54201  (19120108)
        490435.95   3859988.59       60.43769  (19120108)                490485.95
3859988.59       58.33500  (19120108)
        490535.95   3859988.59       56.18864  (19120108)                490585.95
3859988.59       54.08697  (19120108)
        490635.95   3859988.59       53.72438  (19120108)                490685.95
3859988.59       51.01019  (19120108)
        490735.95   3859988.59       49.19377  (16010208)                490785.95
3859988.59       47.62673  (18011822)
        490835.95   3859988.59       46.39399  (19011921)                490885.95
3859988.59       44.33582  (16010208)
        490135.95   3860038.59       76.98777  (19120108)                490185.95
3860038.59       73.89156  (19120108)
        490235.95   3860038.59       70.70761  (19120108)                490285.95
3860038.59       67.19418  (19120108)
        490335.95   3860038.59       64.85265  (19120108)                490385.95
3860038.59       62.37516  (19120108)
        490435.95   3860038.59       60.12373  (19120108)                490485.95
3860038.59       57.67132  (19120108)
        490535.95   3860038.59       55.25587  (19120108)                490585.95
3860038.59       52.67102  (19120108)
        490635.95   3860038.59       49.62062  (19120108)                490685.95
3860038.59       47.78061  (16010208)
        490735.95   3860038.59       48.08970  (16010208)                490785.95
3860038.59       46.27190  (16010208)
        490835.95   3860038.59       44.47260  (18011822)                490885.95
3860038.59       41.81178  (18011822)
        490135.95   3860088.59       78.14097  (19120108)                490185.95
3860088.59       76.01061  (19120108)
        490235.95   3860088.59       71.75485  (19120108)                490285.95
3860088.59       67.89474  (19120108)
        490335.95   3860088.59       64.51387  (19120108)                490385.95
3860088.59       62.00678  (19120108)
        490435.95   3860088.59       59.28506  (19120108)                490485.95
3860088.59       56.29659  (19120108)
        490535.95   3860088.59       53.22033  (19120108)                490585.95
3860088.59       50.59242  (16010208)
        490635.95   3860088.59       48.84596  (16010208)                490685.95
3860088.59       47.07897  (16010208)
        490735.95   3860088.59       45.32702  (16010208)                490785.95
3860088.59       43.80926  (20010317)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                  PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490835.95	3860088.59	42.81489	(20010317)	490885.95	3860088.59	41.86716	(20010317)
490135.95	3860138.59	77.02403	(19120108)	490185.95	3860138.59	74.32257	(19120108)
490235.95	3860138.59	69.99670	(19120108)	490285.95	3860138.59	66.85205	(19120108)
490335.95	3860138.59	64.07157	(19120108)	490385.95	3860138.59	61.17576	(19120108)
490435.95	3860138.59	57.61368	(19120108)	490485.95	3860138.59	53.94880	(19120108)
490535.95	3860138.59	51.76931	(16010208)	490585.95	3860138.59	49.80860	(16010208)
490635.95	3860138.59	47.72129	(16010208)	490685.95	3860138.59	45.99054	(20010317)
490735.95	3860138.59	44.89736	(20010317)	490785.95	3860138.59	43.92879	(20010317)
490835.95	3860138.59	42.91053	(20010317)	490885.95	3860138.59	41.85664	(20010317)
490935.95	3860138.59	40.80762	(20010317)	490985.95	3860138.59	39.92046	(20010317)
491035.95	3860138.59	39.10397	(20010317)	490135.95	3860188.59	76.11245	(19120108)
490185.95	3860188.59	73.45956	(19120108)	490235.95	3860188.59	69.43138	(19120108)
490285.95	3860188.59	66.29974	(19120108)	490335.95	3860188.59	62.98629	(19120108)
490385.95	3860188.59	58.97892	(19120108)	490435.95	3860188.59	55.11197	(16010208)
490485.95	3860188.59	52.93064	(16010208)	490535.95			

3860188.59 50.65884 (16010208)
490585.95 3860188.59 48.68889 (20010317) 490635.95
3860188.59 47.30781 (20010317)
490685.95 3860188.59 46.10051 (20010317) 490735.95
3860188.59 44.84156 (20010317)
490785.95 3860188.59 43.79152 (20010317) 490835.95
3860188.59 42.79054 (20010317)
490885.95 3860188.59 41.65817 (20010317) 490935.95
3860188.59 40.54703 (20010317)
490985.95 3860188.59 39.62151 (20010317) 491035.95
3860188.59 38.64815 (20010317)
491085.95 3860188.59 37.62303 (20010317) 491135.95
3860188.59 36.82465 (20010317)
490135.95 3860238.59 75.69207 (19120108) 490185.95
3860238.59 72.26749 (19120108)
490235.95 3860238.59 68.69882 (19120108) 490285.95
3860238.59 64.87953 (19120108)
490335.95 3860238.59 60.38164 (19120108) 490385.95
3860238.59 56.61255 (16010208)
490435.95 3860238.59 54.14597 (16010208) 490485.95
3860238.59 51.65096 (20010317)
490535.95 3860238.59 50.10358 (20010317) 490585.95
3860238.59 48.66760 (20010317)
490635.95 3860238.59 47.31760 (20010317) 490685.95
3860238.59 46.04978 (20010317)
490735.95 3860238.59 44.82351 (20010317) 490785.95
3860238.59 43.64805 (20010317)
490835.95 3860238.59 42.50619 (20010317) 490885.95
3860238.59 41.43617 (20010317)
490935.95 3860238.59 40.38678 (20010317) 490985.95
3860238.59 39.63745 (20010317)
491035.95 3860238.59 38.54851 (20010317) 491085.95
3860238.59 37.34583 (20010317)
491135.95 3860238.59 36.33505 (20010317) 490135.95
3860288.59 75.19232 (19120108)
490185.95 3860288.59 71.08059 (19120108) 490235.95
3860288.59 66.85037 (19120108)
490285.95 3860288.59 61.62846 (19120108) 490335.95
3860288.59 58.12057 (16010208)
490385.95 3860288.59 55.25394 (16010208) 490435.95
3860288.59 53.28354 (20010317)
490485.95 3860288.59 51.61619 (20010317) 490535.95
3860288.59 50.01364 (20010317)
490585.95 3860288.59 48.50386 (20010317) 490635.95
3860288.59 47.13662 (20010317)
490685.95 3860288.59 45.88279 (20010317) 490735.95
3860288.59 44.65260 (20010317)
490785.95 3860288.59 43.49413 (20010317) 490835.95
3860288.59 42.28952 (20010317)
490885.95 3860288.59 41.18762 (20010317) 490935.95

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        490985.95   3860288.59   39.06429 (20010317)   491035.95   3860288.59   37.92204 (20010317)
        491085.95   3860288.59   36.91013 (19122321)   490135.95   3860338.59   73.45762 (19120108)
        490185.95   3860338.59   68.06153 (19120108)   490235.95   3860338.59   62.85479 (16010208)
        490285.95   3860338.59   59.72497 (20120308)   490335.95   3860338.59   57.31057 (20120308)
        490385.95   3860338.59   55.12660 (20120308)   490435.95   3860338.59   53.15709 (20010317)
        490485.95   3860338.59   51.47852 (20010317)   490535.95   3860338.59   49.93725 (20010317)
        490585.95   3860338.59   48.38407 (20010317)   490635.95   3860338.59   46.95417 (20010317)
        490685.95   3860338.59   45.61591 (20010317)   490735.95   3860338.59   44.32375 (20010317)
        490785.95   3860338.59   43.21300 (20010317)   490835.95   3860338.59   41.87475 (20010317)
        490885.95   3860338.59   40.58347 (20010317)   490935.95   3860338.59   39.48880 (19122321)

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        490985.95   3860338.59       38.43641  (19122321)               491035.95
3860338.59       37.50521  (19122321)
        491085.95   3860338.59       36.57827  (19122321)               490135.95
3860388.59       69.33243  (20120308)
        490185.95   3860388.59       66.33860  (20120308)               490235.95
3860388.59       63.73114  (20120308)
        490285.95   3860388.59       61.19386  (20120308)               490335.95
3860388.59       58.81579  (20120308)
        490385.95   3860388.59       56.53889  (20120308)               490435.95
3860388.59       54.46495  (20120308)
        490485.95   3860388.59       52.62112  (20120308)               490535.95
3860388.59       50.80053  (20120308)
        490585.95   3860388.59       49.11466  (20120308)               490635.95
3860388.59       47.44330  (20120308)
        490685.95   3860388.59       46.03787  (20120308)               490735.95
3860388.59       44.57425  (20120308)
        490785.95   3860388.59       43.27143  (20120308)               490835.95
3860388.59       42.13046  (20120308)
        490135.95   3860438.59       70.06832  (20120308)               490185.95
3860438.59       67.26297  (20120308)
        490235.95   3860438.59       64.61165  (20120308)               490285.95
3860438.59       62.11427  (20120308)
        490335.95   3860438.59       59.66732  (20120308)               490385.95
3860438.59       57.49238  (20120308)
        490435.95   3860438.59       55.43610  (20120308)               490485.95
3860438.59       53.48621  (20120308)
        490535.95   3860438.59       51.74453  (20120308)               490585.95
3860438.59       50.00706  (20120308)
        490635.95   3860438.59       48.37373  (20120308)               490685.95
3860438.59       46.92818  (20120308)
        490735.95   3860438.59       45.64446  (20120308)               490785.95
3860438.59       44.29062  (20120308)
        490835.95   3860438.59       43.23920  (20120308)               490135.95
3860488.59       70.28140  (20120308)
        490185.95   3860488.59       67.49931  (20120308)               490235.95
3860488.59       64.79236  (20120308)
        490285.95   3860488.59       62.43129  (20120308)               490335.95
3860488.59       60.04519  (20120308)
        490385.95   3860488.59       57.96253  (20120308)               490435.95
3860488.59       56.18045  (20120308)
        490485.95   3860488.59       54.19155  (20120308)               490535.95
3860488.59       52.27073  (20120308)
        490585.95   3860488.59       50.50359  (20120308)               490635.95
3860488.59       49.00337  (20120308)
        490685.95   3860488.59       47.41739  (20120308)               490735.95
3860488.59       46.12419  (20120308)
        490785.95   3860488.59       44.87488  (20120308)               490135.95
3860538.59       69.96139  (20120308)
        490185.95   3860538.59       67.47886  (20120308)               490235.95
3860538.59       64.61429  (20120308)
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490785.95	3860538.59	45.19104	(20120308)	490135.95	3860588.59	69.92525	(20120308)
490185.95	3860588.59	65.69900	(20120308)	490235.95	3860588.59	63.87448	(20120308)
490285.95	3860588.59	61.85688	(20120308)	490335.95	3860588.59	59.69640	(20120308)
490385.95	3860588.59	57.66292	(20120308)	490435.95	3860588.59	56.51628	(20120308)
490485.95	3860588.59	55.08842	(20120308)	490535.95	3860588.59	53.30453	(20120308)
490585.95	3860588.59	50.71387	(20120308)	490635.95			

3860588.59 49.26115 (20120308)
490685.95 3860588.59 47.82244 (20120308) 490735.95
3860588.59 46.50008 (20120308)
490785.95 3860588.59 45.17191 (20120308) 490135.95
3860638.59 69.87157 (20120308)
490185.95 3860638.59 66.85303 (20120308) 490235.95
3860638.59 63.61157 (20120308)
490285.95 3860638.59 61.09888 (20120308) 490335.95
3860638.59 59.23184 (20120308)
490385.95 3860638.59 57.31771 (20120308) 490435.95
3860638.59 55.38027 (20120308)
490485.95 3860638.59 53.72601 (20120308) 490535.95
3860638.59 52.44451 (20120308)
490585.95 3860638.59 50.68120 (20120308) 490635.95
3860638.59 49.27397 (20120308)
490685.95 3860638.59 47.83811 (20120308) 490735.95
3860638.59 46.30911 (20120308)
490785.95 3860638.59 45.12019 (20120308) 490135.95
3860688.59 68.77156 (20120308)
490185.95 3860688.59 66.92926 (20120308) 490235.95
3860688.59 63.86922 (20120308)
490285.95 3860688.59 60.16384 (20120308) 490335.95
3860688.59 58.60960 (20120308)
490385.95 3860688.59 56.92985 (20120308) 490435.95
3860688.59 55.02738 (20120308)
490485.95 3860688.59 53.04151 (20120308) 490535.95
3860688.59 51.57505 (20120308)
490585.95 3860688.59 50.20427 (20120308) 490635.95
3860688.59 48.93220 (20120308)
490685.95 3860688.59 47.81338 (20120308) 490735.95
3860688.59 46.47936 (20120308)
490785.95 3860688.59 45.47132 (20120308) 490135.95
3860738.59 66.75233 (20120308)
490185.95 3860738.59 63.72141 (20120308) 490235.95
3860738.59 61.47477 (20120308)
490285.95 3860738.59 59.60832 (20120308) 490335.95
3860738.59 57.83210 (20120308)
490385.95 3860738.59 56.25822 (20120308) 490435.95
3860738.59 55.40750 (20120308)
490485.95 3860738.59 53.41732 (20120308) 490535.95
3860738.59 51.03367 (20120308)
490585.95 3860738.59 49.47974 (20120308) 490635.95
3860738.59 48.21714 (20120308)
490685.95 3860738.59 47.30792 (20120308) 490735.95
3860738.59 46.39852 (20120308)
490785.95 3860738.59 45.63127 (20120308) 490135.95
3860788.59 65.03531 (20120308)
490185.95 3860788.59 62.85220 (20120308) 490235.95
3860788.59 60.73074 (20120308)
490285.95 3860788.59 58.82975 (20120308) 490335.95

3860788.59   56.90806 (20120308)
        490385.95   3860788.59   55.72394 (20120308)   490435.95
3860788.59   54.15509 (20120308)
        490485.95   3860788.59   53.05328 (20120308)   490535.95
3860788.59   51.24574 (20120308)
        490585.95   3860788.59   49.07627 (20120308)   490635.95
3860788.59   47.65272 (20120308)
        490685.95   3860788.59   46.57118 (20120308)   490735.95
3860788.59   45.76504 (20120308)
        490785.95   3860788.59   44.64147 (20120308)   489985.95
3860838.59   73.03557 (20120308)
        490035.95   3860838.59   70.29027 (20120308)   490085.95
3860838.59   67.99379 (20120308)
        490135.95   3860838.59   65.79204 (20120308)   490185.95
3860838.59   63.04965 (20120308)
        490235.95   3860838.59   60.63620 (20120308)   490285.95
3860838.59   58.72783 (20120308)
        490335.95   3860838.59   56.62763 (20120308)   490385.95
3860838.59   54.83807 (20120308)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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        490535.95   3860838.59       50.60469  (20120308)               490585.95
3860838.59       48.87476  (20120308)
        490635.95   3860838.59       47.27467  (20120308)               490685.95
3860838.59       46.08972  (20120308)
        490735.95   3860838.59       45.19697  (20120308)               490785.95
3860838.59       44.20825  (20120308)
        490835.95   3860838.59       43.14086  (20120308)               489835.95
3860888.59       84.11965  (20120308)
        489885.95   3860888.59       79.89334  (20120308)               489935.95
3860888.59       76.09407  (20120308)
        489985.95   3860888.59       72.90316  (20120308)               490035.95
3860888.59       69.93847  (20120308)
        490085.95   3860888.59       67.43448  (20120308)               490135.95
3860888.59       64.74015  (20120308)
        490185.95   3860888.59       61.96756  (20120308)               490235.95
3860888.59       59.61777  (20120308)
        490285.95   3860888.59       57.42361  (20120308)               490335.95
3860888.59       55.28246  (20120308)
        490385.95   3860888.59       53.69413  (20120308)               490435.95
3860888.59       52.30935  (20120308)
        490485.95   3860888.59       50.79102  (20120308)               490535.95
3860888.59       49.26345  (20120308)
        490585.95   3860888.59       47.69620  (20120308)               490635.95
3860888.59       46.15787  (20120308)
        490685.95   3860888.59       44.89256  (20120308)               490735.95
3860888.59       43.78741  (20120308)
        490785.95   3860888.59       42.63020  (20120308)               490835.95
3860888.59       41.76133  (20120308)
        490885.95   3860888.59       41.13283  (20120308)               490935.95
3860888.59       40.27821  (20120308)
        489835.95   3860938.59       83.55286  (16122308)               489885.95
3860938.59       76.35925  (16122308)
        489935.95   3860938.59       71.40253  (16010507)               489985.95
3860938.59       68.37784  (16010507)
        490035.95   3860938.59       65.69728  (16010507)               490085.95
3860938.59       63.23137  (16010507)
        490135.95   3860938.59       60.51462  (16010507)               490185.95
3860938.59       58.45952  (16010507)
        490235.95   3860938.59       56.47611  (20120718)               490285.95
3860938.59       54.67271  (20120718)
        490335.95   3860938.59       52.61045  (20120718)               490385.95
3860938.59       51.03086  (20120718)
        490435.95   3860938.59       49.52282  (20022720)               490485.95
3860938.59       47.85129  (20022720)
        490535.95   3860938.59       46.22838  (20022720)               490585.95
3860938.59       44.55191  (20120308)
        490635.95   3860938.59       43.29149  (20120308)               490685.95
3860938.59       42.18725  (20120308)
        490735.95   3860938.59       41.15894  (20120308)               490785.95
3860938.59       40.22170  (20120308)
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        490835.95   3860938.59       39.59429  (20120308)                490885.95
3860938.59       39.05970  (20120308)
        490935.95   3860938.59       38.27326  (20120308)                489835.95
3860988.59       83.83391  (16122308)
        489885.95   3860988.59       77.55130  (16122308)                489935.95
3860988.59       72.04940  (20120718)
        489985.95   3860988.59       68.32390  (20120718)                490035.95
3860988.59       65.11302  (20120718)
        490085.95   3860988.59       62.59342  (16010507)                490135.95
3860988.59       60.15926  (16010507)
        490185.95   3860988.59       58.26145  (16010507)                490235.95
3860988.59       55.92220  (16010507)
        490285.95   3860988.59       53.97399  (20120718)                490335.95
3860988.59       52.27841  (20120718)
        490385.95   3860988.59       50.69037  (20120718)                490435.95
3860988.59       49.43520  (20120718)
        490485.95   3860988.59       47.86152  (20022720)                490535.95
3860988.59       46.20775  (20022720)
        490585.95   3860988.59       44.63762  (20022720)                490635.95
3860988.59       43.17116  (20022720)
        490685.95   3860988.59       41.64137  (18120921)                490735.95
3860988.59       40.47006  (18120921)
        490785.95   3860988.59       39.51605  (18120708)                490835.95
3860988.59       38.77962  (18120708)
        490885.95   3860988.59       38.19925  (18120708)                490935.95
3860988.59       37.37676  (18120708)
        489835.95   3861038.59       83.88952  (16122308)                489885.95
3861038.59       78.17164  (16122308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        15:28:40

                                  PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
489935.95	3861038.59	72.28593	(16010507)	489985.95	3861038.59	68.55921	(20120718)
490035.95	3861038.59	65.26002	(20120718)	490085.95	3861038.59	62.34531	(20120718)
490135.95	3861038.59	59.80652	(20120718)	490185.95	3861038.59	57.53879	(20120718)
490235.95	3861038.59	55.62919	(20120718)	490285.95	3861038.59	53.55267	(20120718)
490335.95	3861038.59	51.74558	(20120718)	490385.95	3861038.59	50.48672	(20120718)
490435.95	3861038.59	49.26664	(20120718)	490485.95	3861038.59	47.78912	(20120718)
490535.95	3861038.59	46.25435	(20022720)	490585.95	3861038.59	44.75435	(20022720)
490635.95	3861038.59	43.25519	(20022720)	490685.95	3861038.59	41.80638	(20022720)
490735.95	3861038.59	40.40398	(20022720)	490785.95	3861038.59	39.34712	(18120921)
490835.95	3861038.59	38.51963	(18120921)	490885.95	3861038.59	37.73015	(18120708)
490935.95	3861038.59	37.04988	(18120708)	489835.95	3861088.59	84.10506	(16122308)
489885.95	3861088.59	78.14108	(16122308)	489935.95	3861088.59	72.67401	(16122308)
489985.95	3861088.59	67.64149	(16010507)	490035.95	3861088.59	64.75400	(16010507)
490085.95	3861088.59	62.15370	(20120718)	490135.95	3861088.59	59.99069	(20120718)
490185.95	3861088.59	58.11724	(20120718)	490235.95	3861088.59	55.69265	(20120718)
490285.95	3861088.59	53.59703	(20120718)	490335.95	3861088.59	51.63633	(20120718)
490385.95	3861088.59	50.29391	(20120718)	490435.95	3861088.59	48.84063	(20120718)
490485.95	3861088.59	47.45160	(20120718)	490535.95	3861088.59	46.23365	(20120718)
490585.95	3861088.59	44.75249	(20022720)	490635.95	3861088.59	43.21986	(20022720)
490685.95	3861088.59	41.88139	(20022720)	490735.95	3861088.59	40.66861	(20022720)
490785.95	3861088.59	39.45841	(20022720)	490835.95	3861088.59	38.25831	(18120921)
490885.95	3861088.59	37.45538	(18120921)	490935.95			

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3861088.59       36.74518  (18120921)
        489835.95   3861138.59       83.28435  (16122308)                489885.95
3861138.59       77.81418  (16122308)
        489935.95   3861138.59       72.51501  (16122308)                489985.95
3861138.59       67.44562  (16122308)
        490035.95   3861138.59       62.50124  (16122308)                490085.95
3861138.59       60.84741  (16010507)
        490135.95   3861138.59       59.11981  (16010507)                490185.95
3861138.59       57.30667  (16010507)
        490235.95   3861138.59       55.45748  (20120718)                490285.95
3861138.59       53.56834  (20120718)
        490335.95   3861138.59       51.71932  (20120718)                490385.95
3861138.59       50.12698  (20120718)
        490435.95   3861138.59       48.61975  (20120718)                490485.95
3861138.59       47.25616  (20120718)
        490535.95   3861138.59       45.95523  (20120718)                490585.95
3861138.59       44.57975  (20120718)
        490635.95   3861138.59       43.11161  (20022720)                490685.95
3861138.59       41.92806  (20022720)
        490735.95   3861138.59       40.82216  (20022720)                490785.95
3861138.59       39.71934  (20022720)
        490835.95   3861138.59       38.56644  (20022720)                490885.95
3861138.59       37.45685  (20022720)
        490935.95   3861138.59       36.40986  (18120921)

↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                   PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
             **


                      NETWORK
GROUP ID                     AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       8.08966 AT (  489662.66,  3860915.95,   668.14,
  668.14,    0.00)  DC
          2ND HIGHEST VALUE IS       5.62386 AT (  489835.95,  3860888.59,   668.65,
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  668.65,    0.00)  DC
        3RD HIGHEST VALUE IS       5.37020 AT (  489556.56,  3859957.07,   687.30,
  689.50,    0.00)  GC  UCART1
        4TH HIGHEST VALUE IS       5.36240 AT (  489537.26,  3859957.07,   687.30,
  689.70,    0.00)  GC  UCART1
        5TH HIGHEST VALUE IS       5.33895 AT (  489575.86,  3859957.07,   687.70,
  691.90,    0.00)  GC  UCART1
        6TH HIGHEST VALUE IS       5.31352 AT (  489517.96,  3859957.07,   687.20,
  689.70,    0.00)  GC  UCART1
        7TH HIGHEST VALUE IS       5.27682 AT (  489595.16,  3859957.07,   688.80,
  693.30,    0.00)  GC  UCART1
        8TH HIGHEST VALUE IS       5.25027 AT (  489498.66,  3859957.07,   686.80,
  689.20,    0.00)  GC  UCART1
        9TH HIGHEST VALUE IS       5.20582 AT (  489614.46,  3859957.07,   690.10,
  693.30,    0.00)  GC  UCART1
       10TH HIGHEST VALUE IS       5.16874 AT (  489479.36,  3859957.07,   686.00,
  689.20,    0.00)  GC  UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/15/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        15:28:40

                                  PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                                 *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
              **

                                                        DATE
                                          NETWORK
GROUP ID                             AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS     245.81265  ON 20040918: AT (  489267.06,
3859957.07,   680.50,   680.50,    0.00)  GC  UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 4 Warning Message(s)
A Total of 637 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 191 Calm Hours Identified

A Total of 446 Missing Hours Identified (1.02 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
ME W186 2054 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50
ME W187 2054 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

MX W450 17545 CHKDAT: Record Out of Sequence in Meteorological File at: 18010101
MX W450 17545 CHKDAT: Record Out of Sequence in Meteorological File at: 1 year gap

****
*** AERMOD Finishes Successfully ***
****

HARP2 - HRACalc (dated 22118) 7/16/2024 9:38:37 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.42

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.42
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
C:\Users\dlarocca\Desktop\HARP2 Files\LENWOOD\hra\ConstCancerCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\dlarocca\Desktop\HARP2 Files\LENWOOD\hra\ConstCancerCancerRiskSumByRec.csv
HRA ran successfully

*HARP - HRACalc v22118 7/16/2024 9:38:37 AM - Cancer Risk - Input File: C:\Users\dlarocca\Desktop\HARP2 Files\LENWOOD\hra\ConstCancerHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
1	ALL	UCART1	489228.5	3859569	4.24E-07	1.42YrCan	4.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL	UCART1	489247.8	3859569	4.20E-07	1.42YrCan	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL	UCART1	489267.1	3859569	4.18E-07	1.42YrCan	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL	UCART1	489286.4	3859569	4.14E-07	1.42YrCan	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL	UCART1	489305.7	3859569	4.11E-07	1.42YrCan	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL	UCART1	489325	3859569	4.07E-07	1.42YrCan	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL	UCART1	489344.3	3859569	4.04E-07	1.42YrCan	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL	UCART1	489363.6	3859569	4.01E-07	1.42YrCan	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL	UCART1	489382.9	3859569	3.98E-07	1.42YrCan	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL	UCART1	489402.2	3859569	3.95E-07	1.42YrCan	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL	UCART1	489421.5	3859569	3.92E-07	1.42YrCan	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL	UCART1	489440.8	3859569	3.89E-07	1.42YrCan	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL	UCART1	489460.1	3859569	3.86E-07	1.42YrCan	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL	UCART1	489479.4	3859569	3.83E-07	1.42YrCan	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL	UCART1	489498.7	3859569	3.81E-07	1.42YrCan	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL	UCART1	489518	3859569	3.78E-07	1.42YrCan	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL	UCART1	489537.3	3859569	3.75E-07	1.42YrCan	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL	UCART1	489556.6	3859569	3.73E-07	1.42YrCan	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL	UCART1	489575.9	3859569	3.72E-07	1.42YrCan	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL	UCART1	489595.2	3859569	3.71E-07	1.42YrCan	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL	UCART1	489614.5	3859569	3.68E-07	1.42YrCan	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL	UCART1	489228.5	3859588	4.47E-07	1.42YrCan	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL	UCART1	489247.8	3859588	4.44E-07	1.42YrCan	4.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL	UCART1	489267.1	3859588	4.40E-07	1.42YrCan	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL	UCART1	489286.4	3859588	4.37E-07	1.42YrCan	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL	UCART1	489305.7	3859588	4.34E-07	1.42YrCan	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL	UCART1	489325	3859588	4.30E-07	1.42YrCan	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL	UCART1	489344.3	3859588	4.27E-07	1.42YrCan	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL	UCART1	489363.6	3859588	4.23E-07	1.42YrCan	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL	UCART1	489382.9	3859588	4.20E-07	1.42YrCan	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL	UCART1	489402.2	3859588	4.16E-07	1.42YrCan	4.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL	UCART1	489421.5	3859588	4.14E-07	1.42YrCan	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL	UCART1	489440.8	3859588	4.11E-07	1.42YrCan	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL	UCART1	489460.1	3859588	4.09E-07	1.42YrCan	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL	UCART1	489479.4	3859588	4.06E-07	1.42YrCan	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL	UCART1	489498.7	3859588	4.03E-07	1.42YrCan	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL	UCART1	489518	3859588	4.00E-07	1.42YrCan	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL	UCART1	489537.3	3859588	3.97E-07	1.42YrCan	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL	UCART1	489556.6	3859588	3.96E-07	1.42YrCan	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL	UCART1	489575.9	3859588	3.94E-07	1.42YrCan	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL	UCART1	489595.2	3859588	3.91E-07	1.42YrCan	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL	UCART1	489614.5	3859588	3.89E-07	1.42YrCan	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL	UCART1	489228.5	3859608	4.72E-07	1.42YrCan	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

44	ALL	UCART1	489247.8	3859608	4.69E-07	1.42YrCan	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL	UCART1	489267.1	3859608	4.66E-07	1.42YrCan	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL	UCART1	489286.4	3859608	4.62E-07	1.42YrCan	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL	UCART1	489305.7	3859608	4.58E-07	1.42YrCan	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL	UCART1	489325	3859608	4.54E-07	1.42YrCan	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL	UCART1	489344.3	3859608	4.51E-07	1.42YrCan	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL	UCART1	489363.6	3859608	4.47E-07	1.42YrCan	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL	UCART1	489382.9	3859608	4.44E-07	1.42YrCan	4.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL	UCART1	489402.2	3859608	4.39E-07	1.42YrCan	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL	UCART1	489421.5	3859608	4.36E-07	1.42YrCan	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL	UCART1	489440.8	3859608	4.35E-07	1.42YrCan	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL	UCART1	489460.1	3859608	4.33E-07	1.42YrCan	4.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL	UCART1	489479.4	3859608	4.31E-07	1.42YrCan	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL	UCART1	489498.7	3859608	4.27E-07	1.42YrCan	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL	UCART1	489518	3859608	4.24E-07	1.42YrCan	4.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL	UCART1	489537.3	3859608	4.21E-07	1.42YrCan	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL	UCART1	489556.6	3859608	4.19E-07	1.42YrCan	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL	UCART1	489575.9	3859608	4.17E-07	1.42YrCan	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL	UCART1	489595.2	3859608	4.13E-07	1.42YrCan	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL	UCART1	489614.5	3859608	4.11E-07	1.42YrCan	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL	UCART1	489228.5	3859627	5.00E-07	1.42YrCan	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL	UCART1	489247.8	3859627	4.97E-07	1.42YrCan	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL	UCART1	489267.1	3859627	4.92E-07	1.42YrCan	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL	UCART1	489286.4	3859627	4.89E-07	1.42YrCan	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL	UCART1	489305.7	3859627	4.85E-07	1.42YrCan	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL	UCART1	489325	3859627	4.80E-07	1.42YrCan	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL	UCART1	489344.3	3859627	4.77E-07	1.42YrCan	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL	UCART1	489363.6	3859627	4.73E-07	1.42YrCan	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL	UCART1	489382.9	3859627	4.69E-07	1.42YrCan	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL	UCART1	489402.2	3859627	4.64E-07	1.42YrCan	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL	UCART1	489421.5	3859627	4.61E-07	1.42YrCan	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL	UCART1	489440.8	3859627	4.59E-07	1.42YrCan	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL	UCART1	489460.1	3859627	4.58E-07	1.42YrCan	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL	UCART1	489479.4	3859627	4.54E-07	1.42YrCan	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL	UCART1	489498.7	3859627	4.50E-07	1.42YrCan	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL	UCART1	489518	3859627	4.48E-07	1.42YrCan	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL	UCART1	489537.3	3859627	4.45E-07	1.42YrCan	4.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL	UCART1	489556.6	3859627	4.42E-07	1.42YrCan	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL	UCART1	489575.9	3859627	4.39E-07	1.42YrCan	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL	UCART1	489595.2	3859627	4.37E-07	1.42YrCan	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL	UCART1	489614.5	3859627	4.36E-07	1.42YrCan	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL	UCART1	489228.5	3859646	5.30E-07	1.42YrCan	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL	UCART1	489247.8	3859646	5.27E-07	1.42YrCan	5.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL	UCART1	489267.1	3859646	5.23E-07	1.42YrCan	5.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL	UCART1	489286.4	3859646	5.19E-07	1.42YrCan	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

89	ALL	UCART1	489305.7	3859646	5.15E-07	1.42YrCan	5.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	UCART1	489325	3859646	5.10E-07	1.42YrCan	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	UCART1	489344.3	3859646	5.06E-07	1.42YrCan	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	UCART1	489363.6	3859646	5.01E-07	1.42YrCan	5.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	UCART1	489382.9	3859646	4.97E-07	1.42YrCan	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	UCART1	489402.2	3859646	4.92E-07	1.42YrCan	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	UCART1	489421.5	3859646	4.89E-07	1.42YrCan	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	UCART1	489440.8	3859646	4.87E-07	1.42YrCan	4.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	UCART1	489460.1	3859646	4.85E-07	1.42YrCan	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	UCART1	489479.4	3859646	4.82E-07	1.42YrCan	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	UCART1	489498.7	3859646	4.75E-07	1.42YrCan	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	UCART1	489518	3859646	4.74E-07	1.42YrCan	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	UCART1	489537.3	3859646	4.72E-07	1.42YrCan	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	UCART1	489556.6	3859646	4.68E-07	1.42YrCan	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	UCART1	489575.9	3859646	4.66E-07	1.42YrCan	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	UCART1	489595.2	3859646	4.64E-07	1.42YrCan	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	UCART1	489614.5	3859646	4.65E-07	1.42YrCan	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	UCART1	489228.5	3859666	5.63E-07	1.42YrCan	5.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	UCART1	489247.8	3859666	5.60E-07	1.42YrCan	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	UCART1	489267.1	3859666	5.57E-07	1.42YrCan	5.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	UCART1	489286.4	3859666	5.53E-07	1.42YrCan	5.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	UCART1	489305.7	3859666	5.49E-07	1.42YrCan	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	UCART1	489325	3859666	5.44E-07	1.42YrCan	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	UCART1	489344.3	3859666	5.38E-07	1.42YrCan	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	UCART1	489363.6	3859666	5.33E-07	1.42YrCan	5.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	UCART1	489382.9	3859666	5.28E-07	1.42YrCan	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	UCART1	489402.2	3859666	5.24E-07	1.42YrCan	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	UCART1	489421.5	3859666	5.21E-07	1.42YrCan	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	UCART1	489440.8	3859666	5.19E-07	1.42YrCan	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	UCART1	489460.1	3859666	5.17E-07	1.42YrCan	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	UCART1	489479.4	3859666	5.13E-07	1.42YrCan	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	UCART1	489498.7	3859666	5.05E-07	1.42YrCan	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	UCART1	489518	3859666	5.04E-07	1.42YrCan	5.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	UCART1	489537.3	3859666	5.02E-07	1.42YrCan	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	UCART1	489556.6	3859666	4.98E-07	1.42YrCan	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	UCART1	489575.9	3859666	4.97E-07	1.42YrCan	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	UCART1	489595.2	3859666	4.95E-07	1.42YrCan	4.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	UCART1	489614.5	3859666	4.96E-07	1.42YrCan	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	UCART1	489228.5	3859685	6.00E-07	1.42YrCan	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	UCART1	489247.8	3859685	5.95E-07	1.42YrCan	5.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	UCART1	489267.1	3859685	5.92E-07	1.42YrCan	5.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	UCART1	489286.4	3859685	5.88E-07	1.42YrCan	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	UCART1	489305.7	3859685	5.84E-07	1.42YrCan	5.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	UCART1	489325	3859685	5.79E-07	1.42YrCan	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	UCART1	489344.3	3859685	5.74E-07	1.42YrCan	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

134	ALL	UCART1	489363.6	3859685	5.68E-07	1.42YrCan	5.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	UCART1	489382.9	3859685	5.64E-07	1.42YrCan	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	UCART1	489402.2	3859685	5.60E-07	1.42YrCan	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	UCART1	489421.5	3859685	5.57E-07	1.42YrCan	5.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	UCART1	489440.8	3859685	5.54E-07	1.42YrCan	5.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	UCART1	489460.1	3859685	5.51E-07	1.42YrCan	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	UCART1	489479.4	3859685	5.47E-07	1.42YrCan	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	UCART1	489498.7	3859685	5.40E-07	1.42YrCan	5.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	UCART1	489518	3859685	5.38E-07	1.42YrCan	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	UCART1	489537.3	3859685	5.37E-07	1.42YrCan	5.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	UCART1	489556.6	3859685	5.33E-07	1.42YrCan	5.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	UCART1	489575.9	3859685	5.31E-07	1.42YrCan	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	UCART1	489595.2	3859685	5.30E-07	1.42YrCan	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	UCART1	489614.5	3859685	5.33E-07	1.42YrCan	5.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	UCART1	489228.5	3859705	6.41E-07	1.42YrCan	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	UCART1	489247.8	3859705	6.36E-07	1.42YrCan	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	UCART1	489267.1	3859705	6.33E-07	1.42YrCan	6.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	UCART1	489286.4	3859705	6.28E-07	1.42YrCan	6.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	UCART1	489305.7	3859705	6.23E-07	1.42YrCan	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	UCART1	489325	3859705	6.18E-07	1.42YrCan	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	UCART1	489344.3	3859705	6.13E-07	1.42YrCan	6.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	UCART1	489363.6	3859705	6.08E-07	1.42YrCan	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	UCART1	489382.9	3859705	6.03E-07	1.42YrCan	6.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	UCART1	489402.2	3859705	5.99E-07	1.42YrCan	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	UCART1	489421.5	3859705	5.96E-07	1.42YrCan	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	UCART1	489440.8	3859705	5.93E-07	1.42YrCan	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	UCART1	489460.1	3859705	5.91E-07	1.42YrCan	5.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	UCART1	489479.4	3859705	5.87E-07	1.42YrCan	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	UCART1	489498.7	3859705	5.79E-07	1.42YrCan	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	UCART1	489518	3859705	5.77E-07	1.42YrCan	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	UCART1	489537.3	3859705	5.76E-07	1.42YrCan	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	UCART1	489556.6	3859705	5.72E-07	1.42YrCan	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	UCART1	489575.9	3859705	5.71E-07	1.42YrCan	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	UCART1	489595.2	3859705	5.71E-07	1.42YrCan	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	UCART1	489614.5	3859705	5.74E-07	1.42YrCan	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	UCART1	489228.5	3859724	6.86E-07	1.42YrCan	6.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	UCART1	489247.8	3859724	6.83E-07	1.42YrCan	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	UCART1	489267.1	3859724	6.79E-07	1.42YrCan	6.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	UCART1	489286.4	3859724	6.74E-07	1.42YrCan	6.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	UCART1	489305.7	3859724	6.68E-07	1.42YrCan	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	UCART1	489325	3859724	6.63E-07	1.42YrCan	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	UCART1	489344.3	3859724	6.57E-07	1.42YrCan	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	UCART1	489363.6	3859724	6.52E-07	1.42YrCan	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	UCART1	489382.9	3859724	6.48E-07	1.42YrCan	6.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	UCART1	489402.2	3859724	6.43E-07	1.42YrCan	6.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

179	ALL	UCART1	489421.5	3859724	6.39E-07	1.42YrCan	6.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	UCART1	489440.8	3859724	6.37E-07	1.42YrCan	6.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	UCART1	489460.1	3859724	6.35E-07	1.42YrCan	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	UCART1	489479.4	3859724	6.31E-07	1.42YrCan	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	UCART1	489498.7	3859724	6.23E-07	1.42YrCan	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	UCART1	489518	3859724	6.22E-07	1.42YrCan	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	UCART1	489537.3	3859724	6.21E-07	1.42YrCan	6.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	UCART1	489556.6	3859724	6.18E-07	1.42YrCan	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	UCART1	489575.9	3859724	6.17E-07	1.42YrCan	6.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	UCART1	489595.2	3859724	6.18E-07	1.42YrCan	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	UCART1	489614.5	3859724	6.22E-07	1.42YrCan	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	UCART1	489228.5	3859743	7.37E-07	1.42YrCan	7.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	UCART1	489247.8	3859743	7.34E-07	1.42YrCan	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	UCART1	489267.1	3859743	7.30E-07	1.42YrCan	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	UCART1	489286.4	3859743	7.25E-07	1.42YrCan	7.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	UCART1	489305.7	3859743	7.20E-07	1.42YrCan	7.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	UCART1	489325	3859743	7.15E-07	1.42YrCan	7.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	UCART1	489344.3	3859743	7.09E-07	1.42YrCan	7.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	UCART1	489363.6	3859743	7.04E-07	1.42YrCan	7.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	UCART1	489382.9	3859743	6.98E-07	1.42YrCan	6.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	UCART1	489402.2	3859743	6.94E-07	1.42YrCan	6.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	UCART1	489421.5	3859743	6.91E-07	1.42YrCan	6.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	UCART1	489440.8	3859743	6.89E-07	1.42YrCan	6.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	UCART1	489460.1	3859743	6.87E-07	1.42YrCan	6.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	UCART1	489479.4	3859743	6.84E-07	1.42YrCan	6.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	UCART1	489498.7	3859743	6.74E-07	1.42YrCan	6.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	UCART1	489518	3859743	6.73E-07	1.42YrCan	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	UCART1	489537.3	3859743	6.73E-07	1.42YrCan	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	UCART1	489556.6	3859743	6.71E-07	1.42YrCan	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	UCART1	489575.9	3859743	6.71E-07	1.42YrCan	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	UCART1	489595.2	3859743	6.73E-07	1.42YrCan	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	UCART1	489614.5	3859743	6.78E-07	1.42YrCan	6.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	UCART1	489228.5	3859763	7.94E-07	1.42YrCan	7.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	UCART1	489247.8	3859763	7.92E-07	1.42YrCan	7.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	UCART1	489267.1	3859763	7.89E-07	1.42YrCan	7.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	UCART1	489286.4	3859763	7.84E-07	1.42YrCan	7.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	UCART1	489305.7	3859763	7.79E-07	1.42YrCan	7.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	UCART1	489325	3859763	7.74E-07	1.42YrCan	7.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	UCART1	489344.3	3859763	7.69E-07	1.42YrCan	7.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	UCART1	489363.6	3859763	7.63E-07	1.42YrCan	7.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	UCART1	489382.9	3859763	7.58E-07	1.42YrCan	7.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	UCART1	489402.2	3859763	7.54E-07	1.42YrCan	7.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	UCART1	489421.5	3859763	7.51E-07	1.42YrCan	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	UCART1	489440.8	3859763	7.49E-07	1.42YrCan	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	UCART1	489460.1	3859763	7.47E-07	1.42YrCan	7.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

224	ALL	UCART1	489479.4	3859763	7.43E-07	1.42YrCan	7.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	UCART1	489498.7	3859763	7.36E-07	1.42YrCan	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	UCART1	489518	3859763	7.34E-07	1.42YrCan	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	UCART1	489537.3	3859763	7.35E-07	1.42YrCan	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	UCART1	489556.6	3859763	7.34E-07	1.42YrCan	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	UCART1	489575.9	3859763	7.36E-07	1.42YrCan	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	UCART1	489595.2	3859763	7.39E-07	1.42YrCan	7.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	UCART1	489614.5	3859763	7.47E-07	1.42YrCan	7.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	UCART1	489228.5	3859782	8.59E-07	1.42YrCan	8.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	UCART1	489247.8	3859782	8.58E-07	1.42YrCan	8.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	UCART1	489267.1	3859782	8.56E-07	1.42YrCan	8.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	UCART1	489286.4	3859782	8.52E-07	1.42YrCan	8.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	UCART1	489305.7	3859782	8.48E-07	1.42YrCan	8.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	UCART1	489325	3859782	8.45E-07	1.42YrCan	8.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	UCART1	489344.3	3859782	8.39E-07	1.42YrCan	8.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	UCART1	489363.6	3859782	8.34E-07	1.42YrCan	8.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	UCART1	489382.9	3859782	8.30E-07	1.42YrCan	8.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	UCART1	489402.2	3859782	8.26E-07	1.42YrCan	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	UCART1	489421.5	3859782	8.23E-07	1.42YrCan	8.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	UCART1	489440.8	3859782	8.20E-07	1.42YrCan	8.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	UCART1	489460.1	3859782	8.17E-07	1.42YrCan	8.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	UCART1	489479.4	3859782	8.12E-07	1.42YrCan	8.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	UCART1	489498.7	3859782	8.10E-07	1.42YrCan	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	UCART1	489518	3859782	8.09E-07	1.42YrCan	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	UCART1	489537.3	3859782	8.09E-07	1.42YrCan	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	UCART1	489556.6	3859782	8.10E-07	1.42YrCan	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	UCART1	489575.9	3859782	8.16E-07	1.42YrCan	8.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	UCART1	489595.2	3859782	8.21E-07	1.42YrCan	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	UCART1	489614.5	3859782	8.30E-07	1.42YrCan	8.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	UCART1	489228.5	3859802	9.35E-07	1.42YrCan	9.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	UCART1	489247.8	3859802	9.35E-07	1.42YrCan	9.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	UCART1	489267.1	3859802	9.34E-07	1.42YrCan	9.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	UCART1	489286.4	3859802	9.31E-07	1.42YrCan	9.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	UCART1	489305.7	3859802	9.28E-07	1.42YrCan	9.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	UCART1	489325	3859802	9.25E-07	1.42YrCan	9.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	UCART1	489344.3	3859802	9.19E-07	1.42YrCan	9.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	UCART1	489363.6	3859802	9.15E-07	1.42YrCan	9.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	UCART1	489382.9	3859802	9.12E-07	1.42YrCan	9.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	UCART1	489402.2	3859802	9.09E-07	1.42YrCan	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	UCART1	489421.5	3859802	9.06E-07	1.42YrCan	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	UCART1	489440.8	3859802	9.04E-07	1.42YrCan	9.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	UCART1	489460.1	3859802	9.01E-07	1.42YrCan	9.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	UCART1	489479.4	3859802	8.99E-07	1.42YrCan	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	UCART1	489498.7	3859802	8.98E-07	1.42YrCan	8.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	UCART1	489518	3859802	8.99E-07	1.42YrCan	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

269	ALL	UCART1	489537.3	3859802	9.02E-07	1.42YrCan	9.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	UCART1	489556.6	3859802	9.05E-07	1.42YrCan	9.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	UCART1	489575.9	3859802	9.13E-07	1.42YrCan	9.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	UCART1	489595.2	3859802	9.21E-07	1.42YrCan	9.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	UCART1	489614.5	3859802	9.32E-07	1.42YrCan	9.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	UCART1	489228.5	3859821	1.02E-06	1.42YrCan	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	UCART1	489247.8	3859821	1.02E-06	1.42YrCan	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	UCART1	489267.1	3859821	1.02E-06	1.42YrCan	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	UCART1	489286.4	3859821	1.02E-06	1.42YrCan	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	UCART1	489305.7	3859821	1.02E-06	1.42YrCan	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	UCART1	489325	3859821	1.02E-06	1.42YrCan	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	UCART1	489344.3	3859821	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	UCART1	489363.6	3859821	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	UCART1	489382.9	3859821	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	UCART1	489402.2	3859821	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	UCART1	489421.5	3859821	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	UCART1	489440.8	3859821	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	UCART1	489460.1	3859821	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	UCART1	489479.4	3859821	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	UCART1	489498.7	3859821	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	UCART1	489518	3859821	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	UCART1	489537.3	3859821	1.02E-06	1.42YrCan	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	UCART1	489556.6	3859821	1.03E-06	1.42YrCan	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	UCART1	489575.9	3859821	1.04E-06	1.42YrCan	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	UCART1	489595.2	3859821	1.05E-06	1.42YrCan	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	UCART1	489614.5	3859821	1.06E-06	1.42YrCan	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	UCART1	489228.5	3859841	1.12E-06	1.42YrCan	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	UCART1	489247.8	3859841	1.13E-06	1.42YrCan	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	UCART1	489267.1	3859841	1.13E-06	1.42YrCan	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	UCART1	489286.4	3859841	1.13E-06	1.42YrCan	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	UCART1	489305.7	3859841	1.13E-06	1.42YrCan	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	UCART1	489325	3859841	1.13E-06	1.42YrCan	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	UCART1	489344.3	3859841	1.13E-06	1.42YrCan	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	UCART1	489363.6	3859841	1.13E-06	1.42YrCan	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	UCART1	489382.9	3859841	1.13E-06	1.42YrCan	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	UCART1	489402.2	3859841	1.13E-06	1.42YrCan	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	UCART1	489421.5	3859841	1.13E-06	1.42YrCan	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	UCART1	489440.8	3859841	1.14E-06	1.42YrCan	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	UCART1	489460.1	3859841	1.14E-06	1.42YrCan	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	UCART1	489479.4	3859841	1.14E-06	1.42YrCan	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	UCART1	489498.7	3859841	1.15E-06	1.42YrCan	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	UCART1	489518	3859841	1.16E-06	1.42YrCan	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	UCART1	489537.3	3859841	1.17E-06	1.42YrCan	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	UCART1	489556.6	3859841	1.18E-06	1.42YrCan	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	UCART1	489575.9	3859841	1.20E-06	1.42YrCan	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

314	ALL	UCART1	489595.2	3859841	1.21E-06	1.42YrCan	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	UCART1	489614.5	3859841	1.23E-06	1.42YrCan	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	UCART1	489228.5	3859860	1.24E-06	1.42YrCan	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	UCART1	489247.8	3859860	1.25E-06	1.42YrCan	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	UCART1	489267.1	3859860	1.26E-06	1.42YrCan	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	UCART1	489286.4	3859860	1.27E-06	1.42YrCan	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	UCART1	489305.7	3859860	1.27E-06	1.42YrCan	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	UCART1	489325	3859860	1.27E-06	1.42YrCan	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	UCART1	489344.3	3859860	1.27E-06	1.42YrCan	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	UCART1	489363.6	3859860	1.28E-06	1.42YrCan	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	UCART1	489382.9	3859860	1.28E-06	1.42YrCan	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	UCART1	489402.2	3859860	1.29E-06	1.42YrCan	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	UCART1	489421.5	3859860	1.30E-06	1.42YrCan	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	UCART1	489440.8	3859860	1.30E-06	1.42YrCan	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	UCART1	489460.1	3859860	1.31E-06	1.42YrCan	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	UCART1	489479.4	3859860	1.32E-06	1.42YrCan	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	UCART1	489498.7	3859860	1.34E-06	1.42YrCan	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	UCART1	489518	3859860	1.35E-06	1.42YrCan	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	UCART1	489537.3	3859860	1.37E-06	1.42YrCan	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	UCART1	489556.6	3859860	1.39E-06	1.42YrCan	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	UCART1	489575.9	3859860	1.41E-06	1.42YrCan	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	UCART1	489595.2	3859860	1.43E-06	1.42YrCan	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	UCART1	489614.5	3859860	1.45E-06	1.42YrCan	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	UCART1	489228.5	3859879	1.38E-06	1.42YrCan	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	UCART1	489247.8	3859879	1.40E-06	1.42YrCan	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	UCART1	489267.1	3859879	1.42E-06	1.42YrCan	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	UCART1	489286.4	3859879	1.43E-06	1.42YrCan	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	UCART1	489305.7	3859879	1.44E-06	1.42YrCan	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	UCART1	489325	3859879	1.44E-06	1.42YrCan	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	UCART1	489344.3	3859879	1.45E-06	1.42YrCan	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	UCART1	489363.6	3859879	1.46E-06	1.42YrCan	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	UCART1	489382.9	3859879	1.48E-06	1.42YrCan	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	UCART1	489402.2	3859879	1.50E-06	1.42YrCan	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	UCART1	489421.5	3859879	1.52E-06	1.42YrCan	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	UCART1	489440.8	3859879	1.53E-06	1.42YrCan	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	UCART1	489460.1	3859879	1.55E-06	1.42YrCan	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	UCART1	489479.4	3859879	1.56E-06	1.42YrCan	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	UCART1	489498.7	3859879	1.60E-06	1.42YrCan	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	UCART1	489518	3859879	1.62E-06	1.42YrCan	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	UCART1	489537.3	3859879	1.64E-06	1.42YrCan	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	UCART1	489556.6	3859879	1.66E-06	1.42YrCan	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	UCART1	489575.9	3859879	1.69E-06	1.42YrCan	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	UCART1	489595.2	3859879	1.71E-06	1.42YrCan	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	UCART1	489614.5	3859879	1.74E-06	1.42YrCan	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	UCART1	489228.5	3859899	1.56E-06	1.42YrCan	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

359	ALL	UCART1	489247.8	3859899	1.59E-06	1.42YrCan	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	UCART1	489267.1	3859899	1.61E-06	1.42YrCan	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	UCART1	489286.4	3859899	1.63E-06	1.42YrCan	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	UCART1	489305.7	3859899	1.65E-06	1.42YrCan	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	UCART1	489325	3859899	1.67E-06	1.42YrCan	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	UCART1	489344.3	3859899	1.69E-06	1.42YrCan	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	UCART1	489363.6	3859899	1.72E-06	1.42YrCan	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	UCART1	489382.9	3859899	1.75E-06	1.42YrCan	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	UCART1	489402.2	3859899	1.78E-06	1.42YrCan	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	UCART1	489421.5	3859899	1.82E-06	1.42YrCan	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	UCART1	489440.8	3859899	1.86E-06	1.42YrCan	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	UCART1	489460.1	3859899	1.89E-06	1.42YrCan	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	UCART1	489479.4	3859899	1.92E-06	1.42YrCan	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	UCART1	489498.7	3859899	1.96E-06	1.42YrCan	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	UCART1	489518	3859899	2.00E-06	1.42YrCan	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	UCART1	489537.3	3859899	2.03E-06	1.42YrCan	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	UCART1	489556.6	3859899	2.06E-06	1.42YrCan	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	UCART1	489575.9	3859899	2.08E-06	1.42YrCan	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	UCART1	489595.2	3859899	2.11E-06	1.42YrCan	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	UCART1	489614.5	3859899	2.13E-06	1.42YrCan	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	UCART1	489228.5	3859918	1.79E-06	1.42YrCan	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	UCART1	489247.8	3859918	1.84E-06	1.42YrCan	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	UCART1	489267.1	3859918	1.87E-06	1.42YrCan	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	UCART1	489286.4	3859918	1.90E-06	1.42YrCan	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	UCART1	489305.7	3859918	1.94E-06	1.42YrCan	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	UCART1	489325	3859918	1.98E-06	1.42YrCan	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	UCART1	489344.3	3859918	2.03E-06	1.42YrCan	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	UCART1	489363.6	3859918	2.08E-06	1.42YrCan	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	UCART1	489382.9	3859918	2.15E-06	1.42YrCan	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	UCART1	489402.2	3859918	2.21E-06	1.42YrCan	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	UCART1	489421.5	3859918	2.28E-06	1.42YrCan	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	UCART1	489440.8	3859918	2.35E-06	1.42YrCan	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	UCART1	489460.1	3859918	2.40E-06	1.42YrCan	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	UCART1	489479.4	3859918	2.46E-06	1.42YrCan	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	UCART1	489498.7	3859918	2.51E-06	1.42YrCan	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	UCART1	489518	3859918	2.56E-06	1.42YrCan	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	UCART1	489537.3	3859918	2.59E-06	1.42YrCan	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	UCART1	489556.6	3859918	2.62E-06	1.42YrCan	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	UCART1	489575.9	3859918	2.64E-06	1.42YrCan	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	UCART1	489595.2	3859918	2.67E-06	1.42YrCan	2.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	UCART1	489614.5	3859918	2.68E-06	1.42YrCan	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	UCART1	489228.5	3859938	2.07E-06	1.42YrCan	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	UCART1	489247.8	3859938	2.16E-06	1.42YrCan	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	UCART1	489267.1	3859938	2.21E-06	1.42YrCan	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	UCART1	489286.4	3859938	2.27E-06	1.42YrCan	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

404	ALL	UCART1	489305.7	3859938	2.35E-06	1.42YrCan	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	UCART1	489325	3859938	2.44E-06	1.42YrCan	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	UCART1	489344.3	3859938	2.54E-06	1.42YrCan	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	UCART1	489363.6	3859938	2.65E-06	1.42YrCan	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	UCART1	489382.9	3859938	2.77E-06	1.42YrCan	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	UCART1	489402.2	3859938	2.90E-06	1.42YrCan	2.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	UCART1	489421.5	3859938	3.02E-06	1.42YrCan	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	UCART1	489440.8	3859938	3.13E-06	1.42YrCan	3.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	UCART1	489460.1	3859938	3.21E-06	1.42YrCan	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	UCART1	489479.4	3859938	3.29E-06	1.42YrCan	3.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	UCART1	489498.7	3859938	3.35E-06	1.42YrCan	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	UCART1	489518	3859938	3.41E-06	1.42YrCan	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	UCART1	489537.3	3859938	3.45E-06	1.42YrCan	3.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	UCART1	489556.6	3859938	3.47E-06	1.42YrCan	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	UCART1	489575.9	3859938	3.48E-06	1.42YrCan	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	UCART1	489595.2	3859938	3.48E-06	1.42YrCan	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	UCART1	489614.5	3859938	3.48E-06	1.42YrCan	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	UCART1	489228.5	3859957	2.47E-06	1.42YrCan	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	UCART1	489247.8	3859957	2.61E-06	1.42YrCan	2.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	UCART1	489267.1	3859957	2.72E-06	1.42YrCan	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	UCART1	489286.4	3859957	2.85E-06	1.42YrCan	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	UCART1	489305.7	3859957	3.02E-06	1.42YrCan	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	UCART1	489325	3859957	3.23E-06	1.42YrCan	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	UCART1	489344.3	3859957	3.45E-06	1.42YrCan	3.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	UCART1	489363.6	3859957	3.67E-06	1.42YrCan	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	UCART1	489382.9	3859957	3.89E-06	1.42YrCan	3.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	UCART1	489402.2	3859957	4.10E-06	1.42YrCan	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	UCART1	489421.5	3859957	4.27E-06	1.42YrCan	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	UCART1	489440.8	3859957	4.41E-06	1.42YrCan	4.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	UCART1	489460.1	3859957	4.52E-06	1.42YrCan	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	UCART1	489479.4	3859957	4.62E-06	1.42YrCan	4.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	UCART1	489498.7	3859957	4.69E-06	1.42YrCan	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	UCART1	489518	3859957	4.75E-06	1.42YrCan	4.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	UCART1	489537.3	3859957	4.79E-06	1.42YrCan	4.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	UCART1	489556.6	3859957	4.80E-06	1.42YrCan	4.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	UCART1	489575.9	3859957	4.77E-06	1.42YrCan	4.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	UCART1	489595.2	3859957	4.72E-06	1.42YrCan	4.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	UCART1	489614.5	3859957	4.65E-06	1.42YrCan	4.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL		488803	3861310	5.78E-07	1.42YrCan	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL		488863.6	3861309	6.04E-07	1.42YrCan	6.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL		488847.6	3861280	6.25E-07	1.42YrCan	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL		488850.8	3861262	6.45E-07	1.42YrCan	6.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL		488810.1	3861261	6.28E-07	1.42YrCan	6.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL		488810.9	3861289	5.99E-07	1.42YrCan	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL		488819.7	3861307	5.85E-07	1.42YrCan	5.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

449	ALL	488816.5	3861236	6.58E-07	1.42YrCan	6.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	488841.3	3861127	8.46E-07	1.42YrCan	8.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	488879.5	3861122	8.87E-07	1.42YrCan	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	488913.8	3861121	9.23E-07	1.42YrCan	9.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	488925.8	3861092	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	488920	3861067	1.08E-06	1.42YrCan	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	488996.7	3861114	1.04E-06	1.42YrCan	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	488974	3861098	1.07E-06	1.42YrCan	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	488931.6	3860977	1.27E-06	1.42YrCan	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	488935.7	3861035	1.18E-06	1.42YrCan	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	488959.9	3861061	1.17E-06	1.42YrCan	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	489165.8	3861209	9.54E-07	1.42YrCan	9.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	489317.7	3861109	1.46E-06	1.42YrCan	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	489385.9	3861015	2.55E-06	1.42YrCan	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	489372.2	3861113	1.48E-06	1.42YrCan	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	489420.8	3861107	1.54E-06	1.42YrCan	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	489436.1	3861038	2.25E-06	1.42YrCan	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	489488.1	3861037	2.36E-06	1.42YrCan	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	489473.6	3861111	1.53E-06	1.42YrCan	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	489431	3861167	1.21E-06	1.42YrCan	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	489662.7	3860916	7.23E-06	1.42YrCan	7.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	489644.8	3861076	1.87E-06	1.42YrCan	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	489659.3	3861099	1.64E-06	1.42YrCan	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	489735.9	3861021	2.69E-06	1.42YrCan	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	489700.1	3861029	2.57E-06	1.42YrCan	2.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	489708.7	3861062	2.06E-06	1.42YrCan	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	489779.3	3861099	1.68E-06	1.42YrCan	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	489836	3859139	1.52E-07	1.42YrCan	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	489886	3859139	1.51E-07	1.42YrCan	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	489936	3859139	1.52E-07	1.42YrCan	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	489986	3859139	1.50E-07	1.42YrCan	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	490036	3859139	1.48E-07	1.42YrCan	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	490086	3859139	1.49E-07	1.42YrCan	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	490136	3859139	1.52E-07	1.42YrCan	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	490186	3859139	1.53E-07	1.42YrCan	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	490236	3859139	1.53E-07	1.42YrCan	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	490286	3859139	1.50E-07	1.42YrCan	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	490336	3859139	1.45E-07	1.42YrCan	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	490386	3859139	1.37E-07	1.42YrCan	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	490436	3859139	1.35E-07	1.42YrCan	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	490486	3859139	1.31E-07	1.42YrCan	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	490536	3859139	1.24E-07	1.42YrCan	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	490586	3859139	1.21E-07	1.42YrCan	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	490636	3859139	1.17E-07	1.42YrCan	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	490686	3859139	1.15E-07	1.42YrCan	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

494	ALL	490736	3859139	1.15E-07	1.42YrCan	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	490786	3859139	1.14E-07	1.42YrCan	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	490836	3859139	1.12E-07	1.42YrCan	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	490886	3859139	1.11E-07	1.42YrCan	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	489836	3859189	1.65E-07	1.42YrCan	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	489886	3859189	1.64E-07	1.42YrCan	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	489936	3859189	1.65E-07	1.42YrCan	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	489986	3859189	1.63E-07	1.42YrCan	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	490036	3859189	1.64E-07	1.42YrCan	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	490086	3859189	1.67E-07	1.42YrCan	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	490136	3859189	1.68E-07	1.42YrCan	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	490186	3859189	1.67E-07	1.42YrCan	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	490236	3859189	1.65E-07	1.42YrCan	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	490286	3859189	1.63E-07	1.42YrCan	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	490336	3859189	1.60E-07	1.42YrCan	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	490386	3859189	1.55E-07	1.42YrCan	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	490436	3859189	1.50E-07	1.42YrCan	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	490486	3859189	1.42E-07	1.42YrCan	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	490536	3859189	1.38E-07	1.42YrCan	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	490586	3859189	1.37E-07	1.42YrCan	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	490636	3859189	1.31E-07	1.42YrCan	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	490686	3859189	1.25E-07	1.42YrCan	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	490736	3859189	1.22E-07	1.42YrCan	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	490786	3859189	1.20E-07	1.42YrCan	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	490836	3859189	1.25E-07	1.42YrCan	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	490886	3859189	1.24E-07	1.42YrCan	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	489836	3859239	1.79E-07	1.42YrCan	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	489886	3859239	1.80E-07	1.42YrCan	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	489936	3859239	1.80E-07	1.42YrCan	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	489986	3859239	1.76E-07	1.42YrCan	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	490036	3859239	1.79E-07	1.42YrCan	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	490086	3859239	1.84E-07	1.42YrCan	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	490136	3859239	1.86E-07	1.42YrCan	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	490186	3859239	1.87E-07	1.42YrCan	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	490236	3859239	1.84E-07	1.42YrCan	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	490286	3859239	1.80E-07	1.42YrCan	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	490336	3859239	1.76E-07	1.42YrCan	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	490386	3859239	1.73E-07	1.42YrCan	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	490436	3859239	1.70E-07	1.42YrCan	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	490486	3859239	1.68E-07	1.42YrCan	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	490536	3859239	1.62E-07	1.42YrCan	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	490586	3859239	1.56E-07	1.42YrCan	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	490636	3859239	1.52E-07	1.42YrCan	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	490686	3859239	1.53E-07	1.42YrCan	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	490736	3859239	1.49E-07	1.42YrCan	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

539	ALL	490786	3859239	1.50E-07	1.42YrCan	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	490836	3859239	1.50E-07	1.42YrCan	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	490886	3859239	1.49E-07	1.42YrCan	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	489836	3859289	1.96E-07	1.42YrCan	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	489886	3859289	1.97E-07	1.42YrCan	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	489936	3859289	1.97E-07	1.42YrCan	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	489986	3859289	1.93E-07	1.42YrCan	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	490036	3859289	1.98E-07	1.42YrCan	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	490086	3859289	2.02E-07	1.42YrCan	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	490136	3859289	2.06E-07	1.42YrCan	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	490186	3859289	2.07E-07	1.42YrCan	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	490236	3859289	2.05E-07	1.42YrCan	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	490286	3859289	2.04E-07	1.42YrCan	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	490336	3859289	2.00E-07	1.42YrCan	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	490386	3859289	1.95E-07	1.42YrCan	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	490436	3859289	1.89E-07	1.42YrCan	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	490486	3859289	1.92E-07	1.42YrCan	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	490536	3859289	1.97E-07	1.42YrCan	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	490586	3859289	1.91E-07	1.42YrCan	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	490636	3859289	1.92E-07	1.42YrCan	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	490686	3859289	1.90E-07	1.42YrCan	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	490736	3859289	1.83E-07	1.42YrCan	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	490786	3859289	1.82E-07	1.42YrCan	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	490836	3859289	1.82E-07	1.42YrCan	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	490886	3859289	1.80E-07	1.42YrCan	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	489836	3859339	2.18E-07	1.42YrCan	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	489886	3859339	2.19E-07	1.42YrCan	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	489936	3859339	2.17E-07	1.42YrCan	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	489986	3859339	2.19E-07	1.42YrCan	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	490036	3859339	2.23E-07	1.42YrCan	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	490086	3859339	2.28E-07	1.42YrCan	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	490136	3859339	2.31E-07	1.42YrCan	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	490186	3859339	2.33E-07	1.42YrCan	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	490236	3859339	2.34E-07	1.42YrCan	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	490286	3859339	2.34E-07	1.42YrCan	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	490336	3859339	2.31E-07	1.42YrCan	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	490386	3859339	2.30E-07	1.42YrCan	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	490436	3859339	2.31E-07	1.42YrCan	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	490486	3859339	2.30E-07	1.42YrCan	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	490536	3859339	2.31E-07	1.42YrCan	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	490586	3859339	2.31E-07	1.42YrCan	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	490636	3859339	2.32E-07	1.42YrCan	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	490686	3859339	2.28E-07	1.42YrCan	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	490736	3859339	2.23E-07	1.42YrCan	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	490786	3859339	2.21E-07	1.42YrCan	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

584	ALL	490836	3859339	2.25E-07	1.42YrCan	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	490886	3859339	2.22E-07	1.42YrCan	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	489836	3859389	2.40E-07	1.42YrCan	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	489886	3859389	2.42E-07	1.42YrCan	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	489936	3859389	2.47E-07	1.42YrCan	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	489986	3859389	2.48E-07	1.42YrCan	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	490036	3859389	2.54E-07	1.42YrCan	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	490086	3859389	2.59E-07	1.42YrCan	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	490136	3859389	2.63E-07	1.42YrCan	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	490186	3859389	2.66E-07	1.42YrCan	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	490236	3859389	2.68E-07	1.42YrCan	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	490286	3859389	2.71E-07	1.42YrCan	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	490336	3859389	2.72E-07	1.42YrCan	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	490386	3859389	2.74E-07	1.42YrCan	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	490436	3859389	2.78E-07	1.42YrCan	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	490486	3859389	2.80E-07	1.42YrCan	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	490536	3859389	2.81E-07	1.42YrCan	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	490586	3859389	2.82E-07	1.42YrCan	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	490636	3859389	2.80E-07	1.42YrCan	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	490686	3859389	2.70E-07	1.42YrCan	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	490736	3859389	2.57E-07	1.42YrCan	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	490786	3859389	2.62E-07	1.42YrCan	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	490836	3859389	2.73E-07	1.42YrCan	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	490886	3859389	2.75E-07	1.42YrCan	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	489836	3859439	2.74E-07	1.42YrCan	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	489886	3859439	2.76E-07	1.42YrCan	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	489936	3859439	2.79E-07	1.42YrCan	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	489986	3859439	2.85E-07	1.42YrCan	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	490036	3859439	2.91E-07	1.42YrCan	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	490086	3859439	2.96E-07	1.42YrCan	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	490136	3859439	3.01E-07	1.42YrCan	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	490186	3859439	3.07E-07	1.42YrCan	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	490236	3859439	3.11E-07	1.42YrCan	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	490286	3859439	3.16E-07	1.42YrCan	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	490336	3859439	3.21E-07	1.42YrCan	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	490386	3859439	3.25E-07	1.42YrCan	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	490436	3859439	3.30E-07	1.42YrCan	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	490486	3859439	3.33E-07	1.42YrCan	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	490536	3859439	3.35E-07	1.42YrCan	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	490586	3859439	3.37E-07	1.42YrCan	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	490636	3859439	3.35E-07	1.42YrCan	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	490686	3859439	3.32E-07	1.42YrCan	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	490736	3859439	3.32E-07	1.42YrCan	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	490786	3859439	3.25E-07	1.42YrCan	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	490836	3859439	3.28E-07	1.42YrCan	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

629	ALL	490886	3859439	3.30E-07	1.42YrCan	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	490086	3859489	3.43E-07	1.42YrCan	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	490136	3859489	3.50E-07	1.42YrCan	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	490186	3859489	3.59E-07	1.42YrCan	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	490236	3859489	3.67E-07	1.42YrCan	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	490286	3859489	3.73E-07	1.42YrCan	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	490336	3859489	3.81E-07	1.42YrCan	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	490386	3859489	3.87E-07	1.42YrCan	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	490436	3859489	3.93E-07	1.42YrCan	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	490486	3859489	3.97E-07	1.42YrCan	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	490536	3859489	4.00E-07	1.42YrCan	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	490586	3859489	4.01E-07	1.42YrCan	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	490636	3859489	4.01E-07	1.42YrCan	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	490686	3859489	4.01E-07	1.42YrCan	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	490736	3859489	3.97E-07	1.42YrCan	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	490786	3859489	3.93E-07	1.42YrCan	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	490836	3859489	3.93E-07	1.42YrCan	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	490886	3859489	3.91E-07	1.42YrCan	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	490086	3859539	4.02E-07	1.42YrCan	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	490136	3859539	4.14E-07	1.42YrCan	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	490186	3859539	4.25E-07	1.42YrCan	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	490236	3859539	4.38E-07	1.42YrCan	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	490286	3859539	4.48E-07	1.42YrCan	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	490336	3859539	4.55E-07	1.42YrCan	4.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	490386	3859539	4.62E-07	1.42YrCan	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	490436	3859539	4.68E-07	1.42YrCan	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	490486	3859539	4.73E-07	1.42YrCan	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	490536	3859539	4.77E-07	1.42YrCan	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	490586	3859539	4.78E-07	1.42YrCan	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	490636	3859539	4.78E-07	1.42YrCan	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	490686	3859539	4.77E-07	1.42YrCan	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	490736	3859539	4.72E-07	1.42YrCan	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	490786	3859539	4.68E-07	1.42YrCan	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	490836	3859539	4.64E-07	1.42YrCan	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	490886	3859539	4.54E-07	1.42YrCan	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	490136	3859589	4.98E-07	1.42YrCan	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	490186	3859589	5.10E-07	1.42YrCan	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	490236	3859589	5.24E-07	1.42YrCan	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	490286	3859589	5.37E-07	1.42YrCan	5.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	490336	3859589	5.46E-07	1.42YrCan	5.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	490386	3859589	5.55E-07	1.42YrCan	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	490436	3859589	5.61E-07	1.42YrCan	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	490486	3859589	5.65E-07	1.42YrCan	5.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	490536	3859589	5.67E-07	1.42YrCan	5.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	490586	3859589	5.68E-07	1.42YrCan	5.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

674	ALL	490636	3859589	5.65E-07	1.42YrCan	5.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	490686	3859589	5.63E-07	1.42YrCan	5.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	490736	3859589	5.56E-07	1.42YrCan	5.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	490786	3859589	5.48E-07	1.42YrCan	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	490836	3859589	5.43E-07	1.42YrCan	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	490886	3859589	5.34E-07	1.42YrCan	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	490136	3859639	5.99E-07	1.42YrCan	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	490186	3859639	6.22E-07	1.42YrCan	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	490236	3859639	6.35E-07	1.42YrCan	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	490286	3859639	6.48E-07	1.42YrCan	6.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	490336	3859639	6.57E-07	1.42YrCan	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	490386	3859639	6.63E-07	1.42YrCan	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	490436	3859639	6.70E-07	1.42YrCan	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	490486	3859639	6.72E-07	1.42YrCan	6.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	490536	3859639	6.73E-07	1.42YrCan	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	490586	3859639	6.71E-07	1.42YrCan	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	490636	3859639	6.66E-07	1.42YrCan	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	490686	3859639	6.59E-07	1.42YrCan	6.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	490736	3859639	6.50E-07	1.42YrCan	6.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	490786	3859639	6.41E-07	1.42YrCan	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	490836	3859639	6.34E-07	1.42YrCan	6.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	490886	3859639	6.28E-07	1.42YrCan	6.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	490136	3859689	7.47E-07	1.42YrCan	7.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	490186	3859689	7.62E-07	1.42YrCan	7.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	490236	3859689	7.75E-07	1.42YrCan	7.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	490286	3859689	7.82E-07	1.42YrCan	7.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	490336	3859689	7.90E-07	1.42YrCan	7.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	490386	3859689	7.96E-07	1.42YrCan	7.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	490436	3859689	7.97E-07	1.42YrCan	7.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	490486	3859689	7.96E-07	1.42YrCan	7.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	490536	3859689	7.92E-07	1.42YrCan	7.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	490586	3859689	7.88E-07	1.42YrCan	7.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	490636	3859689	7.79E-07	1.42YrCan	7.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	490686	3859689	7.68E-07	1.42YrCan	7.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	490736	3859689	7.55E-07	1.42YrCan	7.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	490786	3859689	7.43E-07	1.42YrCan	7.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	490836	3859689	7.34E-07	1.42YrCan	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	490886	3859689	7.31E-07	1.42YrCan	7.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	490086	3859739	9.17E-07	1.42YrCan	9.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	490136	3859739	9.32E-07	1.42YrCan	9.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	490186	3859739	9.43E-07	1.42YrCan	9.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	490236	3859739	9.50E-07	1.42YrCan	9.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	490286	3859739	9.52E-07	1.42YrCan	9.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	490336	3859739	9.54E-07	1.42YrCan	9.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	490386	3859739	9.50E-07	1.42YrCan	9.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719	ALL	490436	3859739	9.46E-07	1.42YrCan	9.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	490486	3859739	9.39E-07	1.42YrCan	9.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	490536	3859739	9.32E-07	1.42YrCan	9.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	490586	3859739	9.20E-07	1.42YrCan	9.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	490636	3859739	9.06E-07	1.42YrCan	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	490686	3859739	8.91E-07	1.42YrCan	8.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	490736	3859739	8.77E-07	1.42YrCan	8.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	490786	3859739	8.64E-07	1.42YrCan	8.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	490836	3859739	8.50E-07	1.42YrCan	8.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	490886	3859739	8.37E-07	1.42YrCan	8.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	490086	3859789	1.17E-06	1.42YrCan	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	490136	3859789	1.17E-06	1.42YrCan	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	490186	3859789	1.17E-06	1.42YrCan	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	490236	3859789	1.16E-06	1.42YrCan	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	490286	3859789	1.15E-06	1.42YrCan	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	490336	3859789	1.14E-06	1.42YrCan	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	490386	3859789	1.13E-06	1.42YrCan	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	490436	3859789	1.12E-06	1.42YrCan	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	490486	3859789	1.10E-06	1.42YrCan	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	490536	3859789	1.09E-06	1.42YrCan	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	490586	3859789	1.07E-06	1.42YrCan	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	490636	3859789	1.05E-06	1.42YrCan	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	490686	3859789	1.03E-06	1.42YrCan	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	490736	3859789	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	490786	3859789	9.90E-07	1.42YrCan	9.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	490836	3859789	9.69E-07	1.42YrCan	9.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	490886	3859789	9.41E-07	1.42YrCan	9.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	490086	3859839	1.48E-06	1.42YrCan	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	490136	3859839	1.47E-06	1.42YrCan	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	490186	3859839	1.44E-06	1.42YrCan	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	490236	3859839	1.42E-06	1.42YrCan	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	490286	3859839	1.39E-06	1.42YrCan	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	490336	3859839	1.36E-06	1.42YrCan	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	490386	3859839	1.34E-06	1.42YrCan	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	490436	3859839	1.31E-06	1.42YrCan	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	490486	3859839	1.28E-06	1.42YrCan	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	490536	3859839	1.26E-06	1.42YrCan	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	490586	3859839	1.23E-06	1.42YrCan	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	490636	3859839	1.20E-06	1.42YrCan	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	490686	3859839	1.17E-06	1.42YrCan	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	490736	3859839	1.15E-06	1.42YrCan	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	490786	3859839	1.11E-06	1.42YrCan	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	490836	3859839	1.09E-06	1.42YrCan	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	490886	3859839	1.06E-06	1.42YrCan	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	490086	3859889	1.87E-06	1.42YrCan	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

764	ALL	490136	3859889	1.81E-06	1.42YrCan	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	490186	3859889	1.76E-06	1.42YrCan	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	490236	3859889	1.71E-06	1.42YrCan	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	490286	3859889	1.65E-06	1.42YrCan	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	490336	3859889	1.60E-06	1.42YrCan	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	490386	3859889	1.56E-06	1.42YrCan	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	490436	3859889	1.51E-06	1.42YrCan	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	490486	3859889	1.47E-06	1.42YrCan	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	490536	3859889	1.43E-06	1.42YrCan	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	490586	3859889	1.39E-06	1.42YrCan	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	490636	3859889	1.36E-06	1.42YrCan	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	490686	3859889	1.32E-06	1.42YrCan	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	490736	3859889	1.28E-06	1.42YrCan	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	490786	3859889	1.25E-06	1.42YrCan	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	490836	3859889	1.22E-06	1.42YrCan	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	490886	3859889	1.18E-06	1.42YrCan	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	490136	3859939	2.20E-06	1.42YrCan	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	490186	3859939	2.10E-06	1.42YrCan	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	490236	3859939	2.02E-06	1.42YrCan	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	490286	3859939	1.93E-06	1.42YrCan	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	490336	3859939	1.86E-06	1.42YrCan	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	490386	3859939	1.79E-06	1.42YrCan	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	490436	3859939	1.72E-06	1.42YrCan	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	490486	3859939	1.66E-06	1.42YrCan	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	490536	3859939	1.61E-06	1.42YrCan	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	490586	3859939	1.56E-06	1.42YrCan	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	490636	3859939	1.51E-06	1.42YrCan	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	490686	3859939	1.47E-06	1.42YrCan	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	490736	3859939	1.42E-06	1.42YrCan	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	490786	3859939	1.38E-06	1.42YrCan	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	490836	3859939	1.34E-06	1.42YrCan	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	490886	3859939	1.30E-06	1.42YrCan	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	490136	3859989	2.59E-06	1.42YrCan	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	490186	3859989	2.45E-06	1.42YrCan	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	490236	3859989	2.33E-06	1.42YrCan	2.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	490286	3859989	2.22E-06	1.42YrCan	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	490336	3859989	2.12E-06	1.42YrCan	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	490386	3859989	2.02E-06	1.42YrCan	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	490436	3859989	1.93E-06	1.42YrCan	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	490486	3859989	1.86E-06	1.42YrCan	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	490536	3859989	1.79E-06	1.42YrCan	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	490586	3859989	1.73E-06	1.42YrCan	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	490636	3859989	1.67E-06	1.42YrCan	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	490686	3859989	1.61E-06	1.42YrCan	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	490736	3859989	1.56E-06	1.42YrCan	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

809	ALL	490786	3859989	1.50E-06	1.42YrCan	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	490836	3859989	1.46E-06	1.42YrCan	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	490886	3859989	1.41E-06	1.42YrCan	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	490136	3860039	2.96E-06	1.42YrCan	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	490186	3860039	2.78E-06	1.42YrCan	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	490236	3860039	2.63E-06	1.42YrCan	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	490286	3860039	2.48E-06	1.42YrCan	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	490336	3860039	2.36E-06	1.42YrCan	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	490386	3860039	2.24E-06	1.42YrCan	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	490436	3860039	2.14E-06	1.42YrCan	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	490486	3860039	2.04E-06	1.42YrCan	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	490536	3860039	1.96E-06	1.42YrCan	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	490586	3860039	1.88E-06	1.42YrCan	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	490636	3860039	1.80E-06	1.42YrCan	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	490686	3860039	1.74E-06	1.42YrCan	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	490736	3860039	1.68E-06	1.42YrCan	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	490786	3860039	1.62E-06	1.42YrCan	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	490836	3860039	1.57E-06	1.42YrCan	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	490886	3860039	1.51E-06	1.42YrCan	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	490136	3860089	3.30E-06	1.42YrCan	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	490186	3860089	3.09E-06	1.42YrCan	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	490236	3860089	2.90E-06	1.42YrCan	2.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	490286	3860089	2.74E-06	1.42YrCan	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	490336	3860089	2.58E-06	1.42YrCan	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	490386	3860089	2.45E-06	1.42YrCan	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	490436	3860089	2.33E-06	1.42YrCan	2.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	490486	3860089	2.21E-06	1.42YrCan	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	490536	3860089	2.11E-06	1.42YrCan	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	490586	3860089	2.03E-06	1.42YrCan	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	490636	3860089	1.94E-06	1.42YrCan	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	490686	3860089	1.86E-06	1.42YrCan	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	490736	3860089	1.80E-06	1.42YrCan	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	490786	3860089	1.73E-06	1.42YrCan	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	490836	3860089	1.67E-06	1.42YrCan	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	490886	3860089	1.60E-06	1.42YrCan	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	490136	3860139	3.59E-06	1.42YrCan	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	490186	3860139	3.36E-06	1.42YrCan	3.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	490236	3860139	3.15E-06	1.42YrCan	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	490286	3860139	2.96E-06	1.42YrCan	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	490336	3860139	2.79E-06	1.42YrCan	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	490386	3860139	2.64E-06	1.42YrCan	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	490436	3860139	2.50E-06	1.42YrCan	2.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	490486	3860139	2.37E-06	1.42YrCan	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	490536	3860139	2.26E-06	1.42YrCan	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	490586	3860139	2.16E-06	1.42YrCan	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

854	ALL	490636	3860139	2.06E-06	1.42YrCan	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	490686	3860139	1.97E-06	1.42YrCan	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	490736	3860139	1.89E-06	1.42YrCan	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	490786	3860139	1.82E-06	1.42YrCan	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	490836	3860139	1.75E-06	1.42YrCan	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	490886	3860139	1.68E-06	1.42YrCan	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	490936	3860139	1.61E-06	1.42YrCan	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	490986	3860139	1.55E-06	1.42YrCan	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	491036	3860139	1.50E-06	1.42YrCan	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	490136	3860189	3.83E-06	1.42YrCan	3.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	490186	3860189	3.58E-06	1.42YrCan	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	490236	3860189	3.36E-06	1.42YrCan	3.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	490286	3860189	3.15E-06	1.42YrCan	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	490336	3860189	2.97E-06	1.42YrCan	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	490386	3860189	2.80E-06	1.42YrCan	2.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	490436	3860189	2.65E-06	1.42YrCan	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	490486	3860189	2.52E-06	1.42YrCan	2.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	490536	3860189	2.39E-06	1.42YrCan	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	490586	3860189	2.28E-06	1.42YrCan	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	490636	3860189	2.17E-06	1.42YrCan	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	490686	3860189	2.08E-06	1.42YrCan	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	490736	3860189	1.99E-06	1.42YrCan	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	490786	3860189	1.90E-06	1.42YrCan	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	490836	3860189	1.83E-06	1.42YrCan	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	490886	3860189	1.75E-06	1.42YrCan	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	490936	3860189	1.68E-06	1.42YrCan	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	490986	3860189	1.61E-06	1.42YrCan	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	491036	3860189	1.55E-06	1.42YrCan	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	491086	3860189	1.49E-06	1.42YrCan	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	491136	3860189	1.43E-06	1.42YrCan	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	490136	3860239	4.03E-06	1.42YrCan	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	490186	3860239	3.77E-06	1.42YrCan	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	490236	3860239	3.53E-06	1.42YrCan	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	490286	3860239	3.32E-06	1.42YrCan	3.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	490336	3860239	3.12E-06	1.42YrCan	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	490386	3860239	2.95E-06	1.42YrCan	2.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	490436	3860239	2.79E-06	1.42YrCan	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	490486	3860239	2.64E-06	1.42YrCan	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	490536	3860239	2.51E-06	1.42YrCan	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	490586	3860239	2.39E-06	1.42YrCan	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	490636	3860239	2.27E-06	1.42YrCan	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	490686	3860239	2.17E-06	1.42YrCan	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	490736	3860239	2.07E-06	1.42YrCan	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	490786	3860239	1.98E-06	1.42YrCan	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	490836	3860239	1.89E-06	1.42YrCan	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

899	ALL	490886	3860239	1.81E-06	1.42YrCan	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	490936	3860239	1.74E-06	1.42YrCan	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	490986	3860239	1.67E-06	1.42YrCan	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	491036	3860239	1.60E-06	1.42YrCan	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	491086	3860239	1.54E-06	1.42YrCan	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	491136	3860239	1.48E-06	1.42YrCan	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	490136	3860289	4.20E-06	1.42YrCan	4.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	490186	3860289	3.92E-06	1.42YrCan	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	490236	3860289	3.68E-06	1.42YrCan	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	490286	3860289	3.45E-06	1.42YrCan	3.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	490336	3860289	3.25E-06	1.42YrCan	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	ALL	490386	3860289	3.07E-06	1.42YrCan	3.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	490436	3860289	2.90E-06	1.42YrCan	2.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	490486	3860289	2.74E-06	1.42YrCan	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	490536	3860289	2.60E-06	1.42YrCan	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	490586	3860289	2.47E-06	1.42YrCan	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	490636	3860289	2.35E-06	1.42YrCan	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	490686	3860289	2.24E-06	1.42YrCan	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	490736	3860289	2.14E-06	1.42YrCan	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	490786	3860289	2.04E-06	1.42YrCan	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	490836	3860289	1.95E-06	1.42YrCan	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	490886	3860289	1.87E-06	1.42YrCan	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	490936	3860289	1.79E-06	1.42YrCan	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	490986	3860289	1.72E-06	1.42YrCan	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	491036	3860289	1.65E-06	1.42YrCan	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	491086	3860289	1.58E-06	1.42YrCan	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	490136	3860339	4.32E-06	1.42YrCan	4.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	490186	3860339	4.04E-06	1.42YrCan	4.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	490236	3860339	3.79E-06	1.42YrCan	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	490286	3860339	3.56E-06	1.42YrCan	3.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	490336	3860339	3.35E-06	1.42YrCan	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	490386	3860339	3.16E-06	1.42YrCan	3.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	490436	3860339	2.98E-06	1.42YrCan	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	490486	3860339	2.82E-06	1.42YrCan	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	490536	3860339	2.67E-06	1.42YrCan	2.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	490586	3860339	2.54E-06	1.42YrCan	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	490636	3860339	2.41E-06	1.42YrCan	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	490686	3860339	2.29E-06	1.42YrCan	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	490736	3860339	2.19E-06	1.42YrCan	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	490786	3860339	2.09E-06	1.42YrCan	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	490836	3860339	2.00E-06	1.42YrCan	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	ALL	490886	3860339	1.91E-06	1.42YrCan	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	490936	3860339	1.82E-06	1.42YrCan	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	490986	3860339	1.74E-06	1.42YrCan	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	491036	3860339	1.67E-06	1.42YrCan	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

944	ALL	491086	3860339	1.60E-06	1.42YrCan	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	490136	3860389	4.41E-06	1.42YrCan	4.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	490186	3860389	4.12E-06	1.42YrCan	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	490236	3860389	3.87E-06	1.42YrCan	3.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	490286	3860389	3.63E-06	1.42YrCan	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	490336	3860389	3.42E-06	1.42YrCan	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	490386	3860389	3.22E-06	1.42YrCan	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	490436	3860389	3.04E-06	1.42YrCan	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	490486	3860389	2.88E-06	1.42YrCan	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	490536	3860389	2.73E-06	1.42YrCan	2.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	490586	3860389	2.58E-06	1.42YrCan	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	490636	3860389	2.45E-06	1.42YrCan	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	490686	3860389	2.33E-06	1.42YrCan	2.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	490736	3860389	2.22E-06	1.42YrCan	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	490786	3860389	2.12E-06	1.42YrCan	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	490836	3860389	2.02E-06	1.42YrCan	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	490136	3860439	4.47E-06	1.42YrCan	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	490186	3860439	4.18E-06	1.42YrCan	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	490236	3860439	3.92E-06	1.42YrCan	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	490286	3860439	3.68E-06	1.42YrCan	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	490336	3860439	3.46E-06	1.42YrCan	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	490386	3860439	3.26E-06	1.42YrCan	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	490436	3860439	3.08E-06	1.42YrCan	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	490486	3860439	2.91E-06	1.42YrCan	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	490536	3860439	2.75E-06	1.42YrCan	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	490586	3860439	2.61E-06	1.42YrCan	2.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	490636	3860439	2.47E-06	1.42YrCan	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	490686	3860439	2.35E-06	1.42YrCan	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	490736	3860439	2.24E-06	1.42YrCan	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	490786	3860439	2.14E-06	1.42YrCan	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	490836	3860439	2.04E-06	1.42YrCan	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	490136	3860489	4.50E-06	1.42YrCan	4.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	490186	3860489	4.20E-06	1.42YrCan	4.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	490236	3860489	3.93E-06	1.42YrCan	3.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	490286	3860489	3.69E-06	1.42YrCan	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	490336	3860489	3.47E-06	1.42YrCan	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	490386	3860489	3.27E-06	1.42YrCan	3.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	490436	3860489	3.09E-06	1.42YrCan	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	490486	3860489	2.92E-06	1.42YrCan	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	490536	3860489	2.76E-06	1.42YrCan	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	490586	3860489	2.61E-06	1.42YrCan	2.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	490636	3860489	2.48E-06	1.42YrCan	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	490686	3860489	2.35E-06	1.42YrCan	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	490736	3860489	2.24E-06	1.42YrCan	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	490786	3860489	2.13E-06	1.42YrCan	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

989	ALL	490136	3860539	4.49E-06	1.42YrCan	4.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	490186	3860539	4.21E-06	1.42YrCan	4.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	490236	3860539	3.92E-06	1.42YrCan	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	490286	3860539	3.68E-06	1.42YrCan	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	490336	3860539	3.46E-06	1.42YrCan	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	490386	3860539	3.26E-06	1.42YrCan	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	490436	3860539	3.08E-06	1.42YrCan	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	490486	3860539	2.91E-06	1.42YrCan	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	490536	3860539	2.76E-06	1.42YrCan	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	490586	3860539	2.60E-06	1.42YrCan	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	490636	3860539	2.46E-06	1.42YrCan	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	ALL	490686	3860539	2.34E-06	1.42YrCan	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001	ALL	490736	3860539	2.22E-06	1.42YrCan	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	490786	3860539	2.12E-06	1.42YrCan	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	490136	3860589	4.47E-06	1.42YrCan	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	490186	3860589	4.12E-06	1.42YrCan	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	490236	3860589	3.87E-06	1.42YrCan	3.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	490286	3860589	3.63E-06	1.42YrCan	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	490336	3860589	3.41E-06	1.42YrCan	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	490386	3860589	3.21E-06	1.42YrCan	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	490436	3860589	3.04E-06	1.42YrCan	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	490486	3860589	2.88E-06	1.42YrCan	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	490536	3860589	2.72E-06	1.42YrCan	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	490586	3860589	2.55E-06	1.42YrCan	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	490636	3860589	2.42E-06	1.42YrCan	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	490686	3860589	2.30E-06	1.42YrCan	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	490736	3860589	2.19E-06	1.42YrCan	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	490786	3860589	2.08E-06	1.42YrCan	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	490136	3860639	4.40E-06	1.42YrCan	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	490186	3860639	4.09E-06	1.42YrCan	4.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	490236	3860639	3.79E-06	1.42YrCan	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	490286	3860639	3.54E-06	1.42YrCan	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	490336	3860639	3.33E-06	1.42YrCan	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	490386	3860639	3.13E-06	1.42YrCan	3.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	490436	3860639	2.95E-06	1.42YrCan	2.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	490486	3860639	2.78E-06	1.42YrCan	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	490536	3860639	2.64E-06	1.42YrCan	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	490586	3860639	2.49E-06	1.42YrCan	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	490636	3860639	2.37E-06	1.42YrCan	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	490686	3860639	2.25E-06	1.42YrCan	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	490736	3860639	2.13E-06	1.42YrCan	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	490786	3860639	2.03E-06	1.42YrCan	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	490136	3860689	4.26E-06	1.42YrCan	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	490186	3860689	3.98E-06	1.42YrCan	3.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	490236	3860689	3.69E-06	1.42YrCan	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1034	ALL	490286	3860689	3.41E-06	1.42YrCan	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	490336	3860689	3.21E-06	1.42YrCan	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	490386	3860689	3.02E-06	1.42YrCan	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	490436	3860689	2.84E-06	1.42YrCan	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	490486	3860689	2.68E-06	1.42YrCan	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	490536	3860689	2.53E-06	1.42YrCan	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	490586	3860689	2.40E-06	1.42YrCan	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	490636	3860689	2.28E-06	1.42YrCan	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	490686	3860689	2.17E-06	1.42YrCan	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL	490736	3860689	2.07E-06	1.42YrCan	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL	490786	3860689	1.97E-06	1.42YrCan	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	490136	3860739	4.03E-06	1.42YrCan	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	490186	3860739	3.73E-06	1.42YrCan	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	490236	3860739	3.47E-06	1.42YrCan	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	490286	3860739	3.25E-06	1.42YrCan	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	490336	3860739	3.05E-06	1.42YrCan	3.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	490386	3860739	2.87E-06	1.42YrCan	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	490436	3860739	2.73E-06	1.42YrCan	2.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	490486	3860739	2.57E-06	1.42YrCan	2.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	490536	3860739	2.41E-06	1.42YrCan	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	490586	3860739	2.28E-06	1.42YrCan	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	490636	3860739	2.17E-06	1.42YrCan	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	490686	3860739	2.07E-06	1.42YrCan	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	490736	3860739	1.98E-06	1.42YrCan	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	490786	3860739	1.90E-06	1.42YrCan	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	490136	3860789	3.73E-06	1.42YrCan	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	490186	3860789	3.47E-06	1.42YrCan	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL	490236	3860789	3.23E-06	1.42YrCan	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL	490286	3860789	3.03E-06	1.42YrCan	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	490336	3860789	2.84E-06	1.42YrCan	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	490386	3860789	2.69E-06	1.42YrCan	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	490436	3860789	2.54E-06	1.42YrCan	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	490486	3860789	2.41E-06	1.42YrCan	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	490536	3860789	2.28E-06	1.42YrCan	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	490586	3860789	2.15E-06	1.42YrCan	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	490636	3860789	2.04E-06	1.42YrCan	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	490686	3860789	1.95E-06	1.42YrCan	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	490736	3860789	1.87E-06	1.42YrCan	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	490786	3860789	1.79E-06	1.42YrCan	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	489986	3860839	4.29E-06	1.42YrCan	4.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	490036	3860839	3.94E-06	1.42YrCan	3.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	490086	3860839	3.66E-06	1.42YrCan	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	490136	3860839	3.40E-06	1.42YrCan	3.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	490186	3860839	3.16E-06	1.42YrCan	3.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	490236	3860839	2.96E-06	1.42YrCan	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1079	ALL	490286	3860839	2.78E-06	1.42YrCan	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	490336	3860839	2.61E-06	1.42YrCan	2.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL	490386	3860839	2.47E-06	1.42YrCan	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	490436	3860839	2.34E-06	1.42YrCan	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	490486	3860839	2.23E-06	1.42YrCan	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	490536	3860839	2.12E-06	1.42YrCan	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	490586	3860839	2.01E-06	1.42YrCan	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	490636	3860839	1.91E-06	1.42YrCan	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	490686	3860839	1.82E-06	1.42YrCan	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	490736	3860839	1.75E-06	1.42YrCan	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	490786	3860839	1.68E-06	1.42YrCan	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	490836	3860839	1.61E-06	1.42YrCan	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	ALL	489836	3860889	5.03E-06	1.42YrCan	5.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092	ALL	489886	3860889	4.51E-06	1.42YrCan	4.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	489936	3860889	4.10E-06	1.42YrCan	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	489986	3860889	3.77E-06	1.42YrCan	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	490036	3860889	3.48E-06	1.42YrCan	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	490086	3860889	3.25E-06	1.42YrCan	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	490136	3860889	3.03E-06	1.42YrCan	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	490186	3860889	2.83E-06	1.42YrCan	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	ALL	490236	3860889	2.66E-06	1.42YrCan	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	490286	3860889	2.51E-06	1.42YrCan	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	490336	3860889	2.37E-06	1.42YrCan	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL	490386	3860889	2.25E-06	1.42YrCan	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL	490436	3860889	2.14E-06	1.42YrCan	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL	490486	3860889	2.04E-06	1.42YrCan	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL	490536	3860889	1.94E-06	1.42YrCan	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL	490586	3860889	1.85E-06	1.42YrCan	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	ALL	490636	3860889	1.77E-06	1.42YrCan	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL	490686	3860889	1.69E-06	1.42YrCan	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL	490736	3860889	1.62E-06	1.42YrCan	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL	490786	3860889	1.56E-06	1.42YrCan	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	490836	3860889	1.50E-06	1.42YrCan	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL	490886	3860889	1.45E-06	1.42YrCan	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL	490936	3860889	1.39E-06	1.42YrCan	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL	489836	3860939	4.02E-06	1.42YrCan	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	ALL	489886	3860939	3.68E-06	1.42YrCan	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL	489936	3860939	3.41E-06	1.42YrCan	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	489986	3860939	3.18E-06	1.42YrCan	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	490036	3860939	2.97E-06	1.42YrCan	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	490086	3860939	2.79E-06	1.42YrCan	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	490136	3860939	2.62E-06	1.42YrCan	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	490186	3860939	2.47E-06	1.42YrCan	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	490236	3860939	2.35E-06	1.42YrCan	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	490286	3860939	2.23E-06	1.42YrCan	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1124	ALL	490336	3860939	2.11E-06	1.42YrCan	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	490386	3860939	2.02E-06	1.42YrCan	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL	490436	3860939	1.93E-06	1.42YrCan	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL	490486	3860939	1.85E-06	1.42YrCan	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1128	ALL	490536	3860939	1.77E-06	1.42YrCan	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	490586	3860939	1.69E-06	1.42YrCan	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	490636	3860939	1.62E-06	1.42YrCan	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	490686	3860939	1.56E-06	1.42YrCan	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	490736	3860939	1.50E-06	1.42YrCan	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	490786	3860939	1.44E-06	1.42YrCan	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	490836	3860939	1.39E-06	1.42YrCan	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	490886	3860939	1.35E-06	1.42YrCan	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	490936	3860939	1.30E-06	1.42YrCan	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	489836	3860989	3.07E-06	1.42YrCan	3.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	489886	3860989	2.91E-06	1.42YrCan	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	489936	3860989	2.75E-06	1.42YrCan	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	489986	3860989	2.61E-06	1.42YrCan	2.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	490036	3860989	2.48E-06	1.42YrCan	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	490086	3860989	2.36E-06	1.42YrCan	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	490136	3860989	2.25E-06	1.42YrCan	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	490186	3860989	2.15E-06	1.42YrCan	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	490236	3860989	2.04E-06	1.42YrCan	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	490286	3860989	1.95E-06	1.42YrCan	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	490336	3860989	1.87E-06	1.42YrCan	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	490386	3860989	1.79E-06	1.42YrCan	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	490436	3860989	1.73E-06	1.42YrCan	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	490486	3860989	1.66E-06	1.42YrCan	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	490536	3860989	1.60E-06	1.42YrCan	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	490586	3860989	1.53E-06	1.42YrCan	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	490636	3860989	1.48E-06	1.42YrCan	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154	ALL	490686	3860989	1.42E-06	1.42YrCan	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	490736	3860989	1.37E-06	1.42YrCan	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	490786	3860989	1.32E-06	1.42YrCan	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	490836	3860989	1.28E-06	1.42YrCan	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	490886	3860989	1.25E-06	1.42YrCan	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	490936	3860989	1.21E-06	1.42YrCan	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	489836	3861039	2.32E-06	1.42YrCan	2.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	489886	3861039	2.26E-06	1.42YrCan	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	489936	3861039	2.19E-06	1.42YrCan	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	489986	3861039	2.11E-06	1.42YrCan	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	490036	3861039	2.04E-06	1.42YrCan	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	490086	3861039	1.97E-06	1.42YrCan	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	490136	3861039	1.90E-06	1.42YrCan	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	490186	3861039	1.83E-06	1.42YrCan	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	490236	3861039	1.77E-06	1.42YrCan	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1169	ALL	490286	3861039	1.70E-06	1.42YrCan	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	490336	3861039	1.64E-06	1.42YrCan	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	490386	3861039	1.59E-06	1.42YrCan	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	490436	3861039	1.54E-06	1.42YrCan	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	490486	3861039	1.49E-06	1.42YrCan	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	490536	3861039	1.43E-06	1.42YrCan	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL	490586	3861039	1.38E-06	1.42YrCan	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	490636	3861039	1.34E-06	1.42YrCan	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL	490686	3861039	1.29E-06	1.42YrCan	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	490736	3861039	1.25E-06	1.42YrCan	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	490786	3861039	1.21E-06	1.42YrCan	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	490836	3861039	1.18E-06	1.42YrCan	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	490886	3861039	1.14E-06	1.42YrCan	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1182	ALL	490936	3861039	1.11E-06	1.42YrCan	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1183	ALL	489836	3861089	1.78E-06	1.42YrCan	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	489886	3861089	1.77E-06	1.42YrCan	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	489936	3861089	1.74E-06	1.42YrCan	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1186	ALL	489986	3861089	1.71E-06	1.42YrCan	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1187	ALL	490036	3861089	1.67E-06	1.42YrCan	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL	490086	3861089	1.64E-06	1.42YrCan	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	490136	3861089	1.60E-06	1.42YrCan	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	490186	3861089	1.57E-06	1.42YrCan	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	490236	3861089	1.52E-06	1.42YrCan	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	490286	3861089	1.47E-06	1.42YrCan	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	490336	3861089	1.43E-06	1.42YrCan	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	490386	3861089	1.39E-06	1.42YrCan	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	490436	3861089	1.36E-06	1.42YrCan	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	490486	3861089	1.32E-06	1.42YrCan	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	490536	3861089	1.28E-06	1.42YrCan	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	490586	3861089	1.24E-06	1.42YrCan	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	490636	3861089	1.20E-06	1.42YrCan	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	490686	3861089	1.17E-06	1.42YrCan	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	490736	3861089	1.14E-06	1.42YrCan	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	490786	3861089	1.11E-06	1.42YrCan	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	490836	3861089	1.08E-06	1.42YrCan	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	490886	3861089	1.05E-06	1.42YrCan	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	490936	3861089	1.02E-06	1.42YrCan	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	489836	3861139	1.40E-06	1.42YrCan	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	489886	3861139	1.40E-06	1.42YrCan	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	489936	3861139	1.39E-06	1.42YrCan	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	489986	3861139	1.38E-06	1.42YrCan	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	490036	3861139	1.37E-06	1.42YrCan	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	490086	3861139	1.36E-06	1.42YrCan	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	490136	3861139	1.34E-06	1.42YrCan	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	490186	3861139	1.32E-06	1.42YrCan	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1214	ALL	490236	3861139	1.30E-06	1.42YrCan	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	490286	3861139	1.28E-06	1.42YrCan	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	490336	3861139	1.25E-06	1.42YrCan	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	490386	3861139	1.22E-06	1.42YrCan	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	490436	3861139	1.19E-06	1.42YrCan	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	490486	3861139	1.17E-06	1.42YrCan	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	ALL	490536	3861139	1.14E-06	1.42YrCan	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	490586	3861139	1.11E-06	1.42YrCan	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	ALL	490636	3861139	1.08E-06	1.42YrCan	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	490686	3861139	1.05E-06	1.42YrCan	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	490736	3861139	1.03E-06	1.42YrCan	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	490786	3861139	1.01E-06	1.42YrCan	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	490836	3861139	9.81E-07	1.42YrCan	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	490886	3861139	9.58E-07	1.42YrCan	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	490936	3861139	9.36E-07	1.42YrCan	9.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

7.23E-06

7.23E+00

HARP2 - HRACalc (dated 22118) 7/16/2024 9:41:13 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\dlarocca\Desktop\HARP2 Files\LENWOOD\hra\ConstChronicNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\dlarocca\Desktop\HARP2 Files\LENWOOD\hra\ConstChronicNCChronicRiskSumByRec.csv
HRA ran successfully

*HARP - HRACalc v22118 7/16/2024 9:41:13 AM - Chronic Risk - Input File: C:\Users\dlarocca\Desktop\HARP2 Files\LENWOOD\hra\ConstChronicHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL	UCART1	489228.5	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04
2	ALL	UCART1	489247.8	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
3	ALL	UCART1	489267.1	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
4	ALL	UCART1	489286.4	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
5	ALL	UCART1	489305.7	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
6	ALL	UCART1	489325	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
7	ALL	UCART1	489344.3	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
8	ALL	UCART1	489363.6	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
9	ALL	UCART1	489382.9	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04
10	ALL	UCART1	489402.2	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
11	ALL	UCART1	489421.5	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
12	ALL	UCART1	489440.8	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04
13	ALL	UCART1	489460.1	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
14	ALL	UCART1	489479.4	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
15	ALL	UCART1	489498.7	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
16	ALL	UCART1	489518	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
17	ALL	UCART1	489537.3	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
18	ALL	UCART1	489556.6	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
19	ALL	UCART1	489575.9	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
20	ALL	UCART1	489595.2	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
21	ALL	UCART1	489614.5	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
22	ALL	UCART1	489228.5	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04
23	ALL	UCART1	489247.8	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
24	ALL	UCART1	489267.1	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04
25	ALL	UCART1	489286.4	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04
26	ALL	UCART1	489305.7	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04
27	ALL	UCART1	489325	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
28	ALL	UCART1	489344.3	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04
29	ALL	UCART1	489363.6	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04
30	ALL	UCART1	489382.9	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
31	ALL	UCART1	489402.2	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
32	ALL	UCART1	489421.5	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
33	ALL	UCART1	489440.8	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
34	ALL	UCART1	489460.1	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
35	ALL	UCART1	489479.4	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
36	ALL	UCART1	489498.7	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
37	ALL	UCART1	489518	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04
38	ALL	UCART1	489537.3	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04
39	ALL	UCART1	489556.6	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
40	ALL	UCART1	489575.9	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
41	ALL	UCART1	489595.2	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
42	ALL	UCART1	489614.5	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04
43	ALL	UCART1	489228.5	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
44	ALL	UCART1	489247.8	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
45	ALL	UCART1	489267.1	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
46	ALL	UCART1	489286.4	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
47	ALL	UCART1	489305.7	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
48	ALL	UCART1	489325	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04

49	ALL	UCART1	489344.3	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
50	ALL	UCART1	489363.6	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04
51	ALL	UCART1	489382.9	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
52	ALL	UCART1	489402.2	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04
53	ALL	UCART1	489421.5	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04
54	ALL	UCART1	489440.8	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
55	ALL	UCART1	489460.1	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04
56	ALL	UCART1	489479.4	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04
57	ALL	UCART1	489498.7	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04
58	ALL	UCART1	489518	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04
59	ALL	UCART1	489537.3	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
60	ALL	UCART1	489556.6	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
61	ALL	UCART1	489575.9	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
62	ALL	UCART1	489595.2	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
63	ALL	UCART1	489614.5	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
64	ALL	UCART1	489228.5	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04
65	ALL	UCART1	489247.8	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
66	ALL	UCART1	489267.1	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04
67	ALL	UCART1	489286.4	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04
68	ALL	UCART1	489305.7	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04
69	ALL	UCART1	489325	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
70	ALL	UCART1	489344.3	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04
71	ALL	UCART1	489363.6	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
72	ALL	UCART1	489382.9	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
73	ALL	UCART1	489402.2	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
74	ALL	UCART1	489421.5	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
75	ALL	UCART1	489440.8	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
76	ALL	UCART1	489460.1	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
77	ALL	UCART1	489479.4	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04
78	ALL	UCART1	489498.7	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04
79	ALL	UCART1	489518	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04
80	ALL	UCART1	489537.3	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04
81	ALL	UCART1	489556.6	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04
82	ALL	UCART1	489575.9	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04
83	ALL	UCART1	489595.2	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04
84	ALL	UCART1	489614.5	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
85	ALL	UCART1	489228.5	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04
86	ALL	UCART1	489247.8	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04
87	ALL	UCART1	489267.1	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04
88	ALL	UCART1	489286.4	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04
89	ALL	UCART1	489305.7	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
90	ALL	UCART1	489325	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04
91	ALL	UCART1	489344.3	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
92	ALL	UCART1	489363.6	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04
93	ALL	UCART1	489382.9	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04
94	ALL	UCART1	489402.2	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04
95	ALL	UCART1	489421.5	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04
96	ALL	UCART1	489440.8	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04
97	ALL	UCART1	489460.1	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04
98	ALL	UCART1	489479.4	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04

99	ALL	UCART1	489498.7	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
100	ALL	UCART1	489518	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04
101	ALL	UCART1	489537.3	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
102	ALL	UCART1	489556.6	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04
103	ALL	UCART1	489575.9	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
104	ALL	UCART1	489595.2	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
105	ALL	UCART1	489614.5	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
106	ALL	UCART1	489228.5	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04
107	ALL	UCART1	489247.8	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
108	ALL	UCART1	489267.1	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
109	ALL	UCART1	489286.4	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04
110	ALL	UCART1	489305.7	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04
111	ALL	UCART1	489325	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04
112	ALL	UCART1	489344.3	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
113	ALL	UCART1	489363.6	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04
114	ALL	UCART1	489382.9	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
115	ALL	UCART1	489402.2	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04
116	ALL	UCART1	489421.5	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04
117	ALL	UCART1	489440.8	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
118	ALL	UCART1	489460.1	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04
119	ALL	UCART1	489479.4	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-04
120	ALL	UCART1	489498.7	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
121	ALL	UCART1	489518	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04
122	ALL	UCART1	489537.3	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04
123	ALL	UCART1	489556.6	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04
124	ALL	UCART1	489575.9	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
125	ALL	UCART1	489595.2	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04
126	ALL	UCART1	489614.5	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
127	ALL	UCART1	489228.5	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04
128	ALL	UCART1	489247.8	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04
129	ALL	UCART1	489267.1	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04
130	ALL	UCART1	489286.4	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04
131	ALL	UCART1	489305.7	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04
132	ALL	UCART1	489325	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
133	ALL	UCART1	489344.3	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04
134	ALL	UCART1	489363.6	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04
135	ALL	UCART1	489382.9	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04
136	ALL	UCART1	489402.2	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04
137	ALL	UCART1	489421.5	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
138	ALL	UCART1	489440.8	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04
139	ALL	UCART1	489460.1	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04
140	ALL	UCART1	489479.4	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04
141	ALL	UCART1	489498.7	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04
142	ALL	UCART1	489518	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
143	ALL	UCART1	489537.3	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04
144	ALL	UCART1	489556.6	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04
145	ALL	UCART1	489575.9	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04
146	ALL	UCART1	489595.2	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04
147	ALL	UCART1	489614.5	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04
148	ALL	UCART1	489228.5	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04

149	ALL	UCART1	489247.8	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04
150	ALL	UCART1	489267.1	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04
151	ALL	UCART1	489286.4	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04
152	ALL	UCART1	489305.7	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04
153	ALL	UCART1	489325	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04
154	ALL	UCART1	489344.3	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04
155	ALL	UCART1	489363.6	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04
156	ALL	UCART1	489382.9	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04
157	ALL	UCART1	489402.2	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04
158	ALL	UCART1	489421.5	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04
159	ALL	UCART1	489440.8	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04
160	ALL	UCART1	489460.1	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-04
161	ALL	UCART1	489479.4	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
162	ALL	UCART1	489498.7	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
163	ALL	UCART1	489518	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-04
164	ALL	UCART1	489537.3	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
165	ALL	UCART1	489556.6	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
166	ALL	UCART1	489575.9	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
167	ALL	UCART1	489595.2	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
168	ALL	UCART1	489614.5	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04
169	ALL	UCART1	489228.5	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04
170	ALL	UCART1	489247.8	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04
171	ALL	UCART1	489267.1	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04
172	ALL	UCART1	489286.4	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04
173	ALL	UCART1	489305.7	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04
174	ALL	UCART1	489325	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04
175	ALL	UCART1	489344.3	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04
176	ALL	UCART1	489363.6	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-04
177	ALL	UCART1	489382.9	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04
178	ALL	UCART1	489402.2	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04
179	ALL	UCART1	489421.5	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04
180	ALL	UCART1	489440.8	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04
181	ALL	UCART1	489460.1	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-04
182	ALL	UCART1	489479.4	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04
183	ALL	UCART1	489498.7	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04
184	ALL	UCART1	489518	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04
185	ALL	UCART1	489537.3	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04
186	ALL	UCART1	489556.6	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04
187	ALL	UCART1	489575.9	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04
188	ALL	UCART1	489595.2	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04
189	ALL	UCART1	489614.5	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04
190	ALL	UCART1	489228.5	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04
191	ALL	UCART1	489247.8	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-04
192	ALL	UCART1	489267.1	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04
193	ALL	UCART1	489286.4	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04
194	ALL	UCART1	489305.7	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-04
195	ALL	UCART1	489325	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04
196	ALL	UCART1	489344.3	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-04
197	ALL	UCART1	489363.6	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04
198	ALL	UCART1	489382.9	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04

199	ALL	UCART1	489402.2	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04
200	ALL	UCART1	489421.5	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-04
201	ALL	UCART1	489440.8	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04
202	ALL	UCART1	489460.1	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04
203	ALL	UCART1	489479.4	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04
204	ALL	UCART1	489498.7	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04
205	ALL	UCART1	489518	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04
206	ALL	UCART1	489537.3	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04
207	ALL	UCART1	489556.6	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04
208	ALL	UCART1	489575.9	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04
209	ALL	UCART1	489595.2	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04
210	ALL	UCART1	489614.5	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04
211	ALL	UCART1	489228.5	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-04
212	ALL	UCART1	489247.8	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-04
213	ALL	UCART1	489267.1	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04
214	ALL	UCART1	489286.4	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-04
215	ALL	UCART1	489305.7	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04
216	ALL	UCART1	489325	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-04
217	ALL	UCART1	489344.3	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04
218	ALL	UCART1	489363.6	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04
219	ALL	UCART1	489382.9	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04
220	ALL	UCART1	489402.2	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04
221	ALL	UCART1	489421.5	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04
222	ALL	UCART1	489440.8	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-04
223	ALL	UCART1	489460.1	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04
224	ALL	UCART1	489479.4	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04
225	ALL	UCART1	489498.7	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04
226	ALL	UCART1	489518	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-04
227	ALL	UCART1	489537.3	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-04
228	ALL	UCART1	489556.6	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-04
229	ALL	UCART1	489575.9	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04
230	ALL	UCART1	489595.2	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-04
231	ALL	UCART1	489614.5	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04
232	ALL	UCART1	489228.5	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-04
233	ALL	UCART1	489247.8	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04
234	ALL	UCART1	489267.1	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04
235	ALL	UCART1	489286.4	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-04
236	ALL	UCART1	489305.7	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04
237	ALL	UCART1	489325	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04
238	ALL	UCART1	489344.3	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04
239	ALL	UCART1	489363.6	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04
240	ALL	UCART1	489382.9	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04
241	ALL	UCART1	489402.2	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04
242	ALL	UCART1	489421.5	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-04
243	ALL	UCART1	489440.8	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-04
244	ALL	UCART1	489460.1	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04
245	ALL	UCART1	489479.4	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-04
246	ALL	UCART1	489498.7	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
247	ALL	UCART1	489518	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
248	ALL	UCART1	489537.3	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04

249	ALL	UCART1	489556.6	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
250	ALL	UCART1	489575.9	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-04
251	ALL	UCART1	489595.2	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-04
252	ALL	UCART1	489614.5	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04
253	ALL	UCART1	489228.5	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04
254	ALL	UCART1	489247.8	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04
255	ALL	UCART1	489267.1	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04
256	ALL	UCART1	489286.4	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04
257	ALL	UCART1	489305.7	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-04
258	ALL	UCART1	489325	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-04
259	ALL	UCART1	489344.3	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-04
260	ALL	UCART1	489363.6	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-04
261	ALL	UCART1	489382.9	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-04
262	ALL	UCART1	489402.2	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04
263	ALL	UCART1	489421.5	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04
264	ALL	UCART1	489440.8	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-04
265	ALL	UCART1	489460.1	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04
266	ALL	UCART1	489479.4	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04
267	ALL	UCART1	489498.7	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04
268	ALL	UCART1	489518	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04
269	ALL	UCART1	489537.3	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-04
270	ALL	UCART1	489556.6	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-04
271	ALL	UCART1	489575.9	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04
272	ALL	UCART1	489595.2	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-04
273	ALL	UCART1	489614.5	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04
274	ALL	UCART1	489228.5	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-04
275	ALL	UCART1	489247.8	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04
276	ALL	UCART1	489267.1	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04
277	ALL	UCART1	489286.4	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04
278	ALL	UCART1	489305.7	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-04
279	ALL	UCART1	489325	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-04
280	ALL	UCART1	489344.3	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-04
281	ALL	UCART1	489363.6	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04
282	ALL	UCART1	489382.9	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04
283	ALL	UCART1	489402.2	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04
284	ALL	UCART1	489421.5	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-04
285	ALL	UCART1	489440.8	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04
286	ALL	UCART1	489460.1	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04
287	ALL	UCART1	489479.4	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-04
288	ALL	UCART1	489498.7	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04
289	ALL	UCART1	489518	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-04
290	ALL	UCART1	489537.3	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-04
291	ALL	UCART1	489556.6	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
292	ALL	UCART1	489575.9	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-04
293	ALL	UCART1	489595.2	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-04
294	ALL	UCART1	489614.5	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04
295	ALL	UCART1	489228.5	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-04
296	ALL	UCART1	489247.8	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04
297	ALL	UCART1	489267.1	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04
298	ALL	UCART1	489286.4	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04

299	ALL	UCART1	489305.7	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04
300	ALL	UCART1	489325	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04
301	ALL	UCART1	489344.3	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-04
302	ALL	UCART1	489363.6	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-04
303	ALL	UCART1	489382.9	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-04
304	ALL	UCART1	489402.2	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04
305	ALL	UCART1	489421.5	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
306	ALL	UCART1	489440.8	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-04
307	ALL	UCART1	489460.1	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-04
308	ALL	UCART1	489479.4	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04
309	ALL	UCART1	489498.7	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-04
310	ALL	UCART1	489518	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-04
311	ALL	UCART1	489537.3	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04
312	ALL	UCART1	489556.6	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04
313	ALL	UCART1	489575.9	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04
314	ALL	UCART1	489595.2	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04
315	ALL	UCART1	489614.5	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-04
316	ALL	UCART1	489228.5	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
317	ALL	UCART1	489247.8	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
318	ALL	UCART1	489267.1	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
319	ALL	UCART1	489286.4	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
320	ALL	UCART1	489305.7	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
321	ALL	UCART1	489325	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
322	ALL	UCART1	489344.3	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
323	ALL	UCART1	489363.6	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
324	ALL	UCART1	489382.9	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
325	ALL	UCART1	489402.2	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
326	ALL	UCART1	489421.5	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
327	ALL	UCART1	489440.8	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
328	ALL	UCART1	489460.1	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
329	ALL	UCART1	489479.4	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
330	ALL	UCART1	489498.7	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
331	ALL	UCART1	489518	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
332	ALL	UCART1	489537.3	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
333	ALL	UCART1	489556.6	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
334	ALL	UCART1	489575.9	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
335	ALL	UCART1	489595.2	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
336	ALL	UCART1	489614.5	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
337	ALL	UCART1	489228.5	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
338	ALL	UCART1	489247.8	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
339	ALL	UCART1	489267.1	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
340	ALL	UCART1	489286.4	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
341	ALL	UCART1	489305.7	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
342	ALL	UCART1	489325	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
343	ALL	UCART1	489344.3	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
344	ALL	UCART1	489363.6	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
345	ALL	UCART1	489382.9	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
346	ALL	UCART1	489402.2	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
347	ALL	UCART1	489421.5	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
348	ALL	UCART1	489440.8	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03

349	ALL	UCART1	489460.1	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
350	ALL	UCART1	489479.4	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
351	ALL	UCART1	489498.7	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
352	ALL	UCART1	489518	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
353	ALL	UCART1	489537.3	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
354	ALL	UCART1	489556.6	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
355	ALL	UCART1	489575.9	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
356	ALL	UCART1	489595.2	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
357	ALL	UCART1	489614.5	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
358	ALL	UCART1	489228.5	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
359	ALL	UCART1	489247.8	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
360	ALL	UCART1	489267.1	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
361	ALL	UCART1	489286.4	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
362	ALL	UCART1	489305.7	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
363	ALL	UCART1	489325	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
364	ALL	UCART1	489344.3	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
365	ALL	UCART1	489363.6	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
366	ALL	UCART1	489382.9	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
367	ALL	UCART1	489402.2	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
368	ALL	UCART1	489421.5	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
369	ALL	UCART1	489440.8	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
370	ALL	UCART1	489460.1	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
371	ALL	UCART1	489479.4	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
372	ALL	UCART1	489498.7	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
373	ALL	UCART1	489518	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
374	ALL	UCART1	489537.3	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
375	ALL	UCART1	489556.6	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
376	ALL	UCART1	489575.9	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
377	ALL	UCART1	489595.2	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
378	ALL	UCART1	489614.5	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
379	ALL	UCART1	489228.5	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
380	ALL	UCART1	489247.8	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
381	ALL	UCART1	489267.1	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
382	ALL	UCART1	489286.4	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
383	ALL	UCART1	489305.7	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
384	ALL	UCART1	489325	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
385	ALL	UCART1	489344.3	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
386	ALL	UCART1	489363.6	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
387	ALL	UCART1	489382.9	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
388	ALL	UCART1	489402.2	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
389	ALL	UCART1	489421.5	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
390	ALL	UCART1	489440.8	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
391	ALL	UCART1	489460.1	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03
392	ALL	UCART1	489479.4	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
393	ALL	UCART1	489498.7	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03
394	ALL	UCART1	489518	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
395	ALL	UCART1	489537.3	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03
396	ALL	UCART1	489556.6	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
397	ALL	UCART1	489575.9	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03
398	ALL	UCART1	489595.2	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03

399	ALL	UCART1	489614.5	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
400	ALL	UCART1	489228.5	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
401	ALL	UCART1	489247.8	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
402	ALL	UCART1	489267.1	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
403	ALL	UCART1	489286.4	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
404	ALL	UCART1	489305.7	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
405	ALL	UCART1	489325	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03
406	ALL	UCART1	489344.3	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
407	ALL	UCART1	489363.6	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03
408	ALL	UCART1	489382.9	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03
409	ALL	UCART1	489402.2	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
410	ALL	UCART1	489421.5	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
411	ALL	UCART1	489440.8	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03
412	ALL	UCART1	489460.1	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03
413	ALL	UCART1	489479.4	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
414	ALL	UCART1	489498.7	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03
415	ALL	UCART1	489518	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03
416	ALL	UCART1	489537.3	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03
417	ALL	UCART1	489556.6	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03
418	ALL	UCART1	489575.9	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
419	ALL	UCART1	489595.2	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
420	ALL	UCART1	489614.5	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
421	ALL	UCART1	489228.5	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
422	ALL	UCART1	489247.8	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
423	ALL	UCART1	489267.1	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03
424	ALL	UCART1	489286.4	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
425	ALL	UCART1	489305.7	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
426	ALL	UCART1	489325	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03
427	ALL	UCART1	489344.3	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03
428	ALL	UCART1	489363.6	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03
429	ALL	UCART1	489382.9	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-03
430	ALL	UCART1	489402.2	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03
431	ALL	UCART1	489421.5	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-03
432	ALL	UCART1	489440.8	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03
433	ALL	UCART1	489460.1	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03
434	ALL	UCART1	489479.4	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-03
435	ALL	UCART1	489498.7	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-03
436	ALL	UCART1	489518	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-03
437	ALL	UCART1	489537.3	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-03
438	ALL	UCART1	489556.6	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-03
439	ALL	UCART1	489575.9	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-03
440	ALL	UCART1	489595.2	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-03
441	ALL	UCART1	489614.5	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-03
442	ALL		488803	3861310	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-04
443	ALL		488863.6	3861309	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04
444	ALL		488847.6	3861280	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04
445	ALL		488850.8	3861262	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-04
446	ALL		488810.1	3861261	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04
447	ALL		488810.9	3861289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
448	ALL		488819.7	3861307	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04

449	ALL	488816.5	3861236	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-04
450	ALL	488841.3	3861127	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04
451	ALL	488879.5	3861122	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04
452	ALL	488913.8	3861121	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04
453	ALL	488925.8	3861092	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04
454	ALL	488920	3861067	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04
455	ALL	488996.7	3861114	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-04
456	ALL	488974	3861098	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04
457	ALL	488931.6	3860977	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
458	ALL	488935.7	3861035	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04
459	ALL	488959.9	3861061	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04
460	ALL	489165.8	3861209	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04
461	ALL	489317.7	3861109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
462	ALL	489385.9	3861015	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
463	ALL	489372.2	3861113	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
464	ALL	489420.8	3861107	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
465	ALL	489436.1	3861038	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
466	ALL	489488.1	3861037	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
467	ALL	489473.6	3861111	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
468	ALL	489431	3861167	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04
469	ALL	489662.7	3860916	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-03
470	ALL	489644.8	3861076	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
471	ALL	489659.3	3861099	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
472	ALL	489735.9	3861021	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03
473	ALL	489700.1	3861029	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
474	ALL	489708.7	3861062	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
475	ALL	489779.3	3861099	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
476	ALL	489836	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
477	ALL	489886	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
478	ALL	489936	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
479	ALL	489986	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
480	ALL	490036	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
481	ALL	490086	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
482	ALL	490136	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
483	ALL	490186	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
484	ALL	490236	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
485	ALL	490286	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
486	ALL	490336	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
487	ALL	490386	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
488	ALL	490436	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
489	ALL	490486	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
490	ALL	490536	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
491	ALL	490586	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05
492	ALL	490636	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05
493	ALL	490686	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05
494	ALL	490736	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-05
495	ALL	490786	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05
496	ALL	490836	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-05
497	ALL	490886	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05
498	ALL	489836	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04

499	ALL	489886	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
500	ALL	489936	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
501	ALL	489986	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
502	ALL	490036	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
503	ALL	490086	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
504	ALL	490136	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
505	ALL	490186	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
506	ALL	490236	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
507	ALL	490286	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
508	ALL	490336	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
509	ALL	490386	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
510	ALL	490436	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
511	ALL	490486	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
512	ALL	490536	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
513	ALL	490586	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
514	ALL	490636	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
515	ALL	490686	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
516	ALL	490736	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05
517	ALL	490786	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05
518	ALL	490836	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
519	ALL	490886	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
520	ALL	489836	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
521	ALL	489886	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
522	ALL	489936	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
523	ALL	489986	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
524	ALL	490036	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
525	ALL	490086	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
526	ALL	490136	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
527	ALL	490186	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
528	ALL	490236	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
529	ALL	490286	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
530	ALL	490336	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
531	ALL	490386	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
532	ALL	490436	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
533	ALL	490486	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
534	ALL	490536	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
535	ALL	490586	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
536	ALL	490636	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
537	ALL	490686	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
538	ALL	490736	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
539	ALL	490786	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
540	ALL	490836	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
541	ALL	490886	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
542	ALL	489836	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
543	ALL	489886	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
544	ALL	489936	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
545	ALL	489986	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
546	ALL	490036	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
547	ALL	490086	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
548	ALL	490136	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04

549	ALL	490186	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
550	ALL	490236	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
551	ALL	490286	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
552	ALL	490336	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
553	ALL	490386	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
554	ALL	490436	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
555	ALL	490486	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
556	ALL	490536	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
557	ALL	490586	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
558	ALL	490636	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
559	ALL	490686	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
560	ALL	490736	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
561	ALL	490786	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
562	ALL	490836	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
563	ALL	490886	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
564	ALL	489836	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
565	ALL	489886	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
566	ALL	489936	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
567	ALL	489986	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
568	ALL	490036	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
569	ALL	490086	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
570	ALL	490136	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
571	ALL	490186	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
572	ALL	490236	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
573	ALL	490286	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
574	ALL	490336	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
575	ALL	490386	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
576	ALL	490436	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
577	ALL	490486	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
578	ALL	490536	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
579	ALL	490586	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
580	ALL	490636	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
581	ALL	490686	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
582	ALL	490736	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
583	ALL	490786	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
584	ALL	490836	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
585	ALL	490886	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
586	ALL	489836	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
587	ALL	489886	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
588	ALL	489936	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
589	ALL	489986	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
590	ALL	490036	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
591	ALL	490086	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
592	ALL	490136	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
593	ALL	490186	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
594	ALL	490236	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
595	ALL	490286	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
596	ALL	490336	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
597	ALL	490386	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
598	ALL	490436	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04

599	ALL	490486	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
600	ALL	490536	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
601	ALL	490586	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
602	ALL	490636	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
603	ALL	490686	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
604	ALL	490736	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
605	ALL	490786	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
606	ALL	490836	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
607	ALL	490886	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
608	ALL	489836	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
609	ALL	489886	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
610	ALL	489936	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
611	ALL	489986	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
612	ALL	490036	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
613	ALL	490086	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
614	ALL	490136	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
615	ALL	490186	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
616	ALL	490236	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
617	ALL	490286	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
618	ALL	490336	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
619	ALL	490386	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
620	ALL	490436	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
621	ALL	490486	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
622	ALL	490536	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
623	ALL	490586	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
624	ALL	490636	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
625	ALL	490686	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
626	ALL	490736	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
627	ALL	490786	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
628	ALL	490836	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
629	ALL	490886	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
630	ALL	490086	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
631	ALL	490136	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
632	ALL	490186	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
633	ALL	490236	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
634	ALL	490286	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
635	ALL	490336	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
636	ALL	490386	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
637	ALL	490436	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
638	ALL	490486	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04
639	ALL	490536	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04
640	ALL	490586	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
641	ALL	490636	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
642	ALL	490686	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
643	ALL	490736	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04
644	ALL	490786	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
645	ALL	490836	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
646	ALL	490886	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
647	ALL	490086	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04
648	ALL	490136	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04

649	ALL	490186	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
650	ALL	490236	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
651	ALL	490286	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04
652	ALL	490336	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04
653	ALL	490386	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04
654	ALL	490436	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04
655	ALL	490486	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
656	ALL	490536	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04
657	ALL	490586	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
658	ALL	490636	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
659	ALL	490686	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
660	ALL	490736	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
661	ALL	490786	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04
662	ALL	490836	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
663	ALL	490886	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04
664	ALL	490136	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04
665	ALL	490186	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04
666	ALL	490236	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04
667	ALL	490286	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04
668	ALL	490336	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
669	ALL	490386	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04
670	ALL	490436	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04
671	ALL	490486	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
672	ALL	490536	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-04
673	ALL	490586	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04
674	ALL	490636	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
675	ALL	490686	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04
676	ALL	490736	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04
677	ALL	490786	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04
678	ALL	490836	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
679	ALL	490886	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04
680	ALL	490136	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
681	ALL	490186	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04
682	ALL	490236	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04
683	ALL	490286	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04
684	ALL	490336	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04
685	ALL	490386	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04
686	ALL	490436	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04
687	ALL	490486	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04
688	ALL	490536	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04
689	ALL	490586	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04
690	ALL	490636	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04
691	ALL	490686	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-04
692	ALL	490736	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04
693	ALL	490786	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04
694	ALL	490836	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04
695	ALL	490886	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04
696	ALL	490136	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04
697	ALL	490186	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04
698	ALL	490236	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04

699 ALL	490286	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-04
700 ALL	490336	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-04
701 ALL	490386	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04
702 ALL	490436	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-04
703 ALL	490486	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04
704 ALL	490536	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-04
705 ALL	490586	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04
706 ALL	490636	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04
707 ALL	490686	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04
708 ALL	490736	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-04
709 ALL	490786	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04
710 ALL	490836	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-04
711 ALL	490886	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04
712 ALL	490086	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04
713 ALL	490136	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04
714 ALL	490186	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04
715 ALL	490236	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-04
716 ALL	490286	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
717 ALL	490336	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04
718 ALL	490386	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-04
719 ALL	490436	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-04
720 ALL	490486	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04
721 ALL	490536	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04
722 ALL	490586	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-04
723 ALL	490636	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04
724 ALL	490686	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04
725 ALL	490736	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04
726 ALL	490786	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04
727 ALL	490836	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-04
728 ALL	490886	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04
729 ALL	490086	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-04
730 ALL	490136	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04
731 ALL	490186	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04
732 ALL	490236	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-04
733 ALL	490286	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04
734 ALL	490336	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04
735 ALL	490386	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04
736 ALL	490436	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04
737 ALL	490486	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-04
738 ALL	490536	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-04
739 ALL	490586	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04
740 ALL	490636	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-04
741 ALL	490686	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04
742 ALL	490736	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04
743 ALL	490786	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-04
744 ALL	490836	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04
745 ALL	490886	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04
746 ALL	490086	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
747 ALL	490136	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
748 ALL	490186	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03

749	ALL	490236	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
750	ALL	490286	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
751	ALL	490336	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
752	ALL	490386	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
753	ALL	490436	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
754	ALL	490486	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
755	ALL	490536	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
756	ALL	490586	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-04
757	ALL	490636	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04
758	ALL	490686	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04
759	ALL	490736	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-04
760	ALL	490786	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-04
761	ALL	490836	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-04
762	ALL	490886	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04
763	ALL	490086	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
764	ALL	490136	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
765	ALL	490186	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
766	ALL	490236	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
767	ALL	490286	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
768	ALL	490336	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
769	ALL	490386	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
770	ALL	490436	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
771	ALL	490486	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
772	ALL	490536	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
773	ALL	490586	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
774	ALL	490636	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
775	ALL	490686	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
776	ALL	490736	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
777	ALL	490786	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
778	ALL	490836	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-04
779	ALL	490886	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-04
780	ALL	490136	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
781	ALL	490186	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
782	ALL	490236	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
783	ALL	490286	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
784	ALL	490336	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
785	ALL	490386	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
786	ALL	490436	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
787	ALL	490486	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
788	ALL	490536	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
789	ALL	490586	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
790	ALL	490636	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
791	ALL	490686	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
792	ALL	490736	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
793	ALL	490786	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
794	ALL	490836	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
795	ALL	490886	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
796	ALL	490136	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03
797	ALL	490186	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
798	ALL	490236	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03

799	ALL	490286	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
800	ALL	490336	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
801	ALL	490386	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
802	ALL	490436	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
803	ALL	490486	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
804	ALL	490536	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
805	ALL	490586	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
806	ALL	490636	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
807	ALL	490686	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
808	ALL	490736	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
809	ALL	490786	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
810	ALL	490836	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
811	ALL	490886	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
812	ALL	490136	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03
813	ALL	490186	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03
814	ALL	490236	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
815	ALL	490286	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
816	ALL	490336	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
817	ALL	490386	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
818	ALL	490436	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
819	ALL	490486	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
820	ALL	490536	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
821	ALL	490586	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
822	ALL	490636	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
823	ALL	490686	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
824	ALL	490736	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
825	ALL	490786	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
826	ALL	490836	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
827	ALL	490886	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
828	ALL	490136	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
829	ALL	490186	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03
830	ALL	490236	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
831	ALL	490286	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03
832	ALL	490336	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
833	ALL	490386	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03
834	ALL	490436	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
835	ALL	490486	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
836	ALL	490536	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
837	ALL	490586	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
838	ALL	490636	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
839	ALL	490686	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
840	ALL	490736	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
841	ALL	490786	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
842	ALL	490836	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
843	ALL	490886	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
844	ALL	490136	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03
845	ALL	490186	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03
846	ALL	490236	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03
847	ALL	490286	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03
848	ALL	490336	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03

849	ALL	490386	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03
850	ALL	490436	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03
851	ALL	490486	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
852	ALL	490536	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
853	ALL	490586	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
854	ALL	490636	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
855	ALL	490686	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
856	ALL	490736	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
857	ALL	490786	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
858	ALL	490836	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
859	ALL	490886	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
860	ALL	490936	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
861	ALL	490986	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
862	ALL	491036	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
863	ALL	490136	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03
864	ALL	490186	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03
865	ALL	490236	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03
866	ALL	490286	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03
867	ALL	490336	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03
868	ALL	490386	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03
869	ALL	490436	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03
870	ALL	490486	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03
871	ALL	490536	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03
872	ALL	490586	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
873	ALL	490636	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
874	ALL	490686	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
875	ALL	490736	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
876	ALL	490786	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
877	ALL	490836	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
878	ALL	490886	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
879	ALL	490936	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
880	ALL	490986	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
881	ALL	491036	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
882	ALL	491086	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
883	ALL	491136	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
884	ALL	490136	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03
885	ALL	490186	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-03
886	ALL	490236	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03
887	ALL	490286	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03
888	ALL	490336	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03
889	ALL	490386	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03
890	ALL	490436	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
891	ALL	490486	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03
892	ALL	490536	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03
893	ALL	490586	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03
894	ALL	490636	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
895	ALL	490686	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
896	ALL	490736	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
897	ALL	490786	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
898	ALL	490836	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03

899	ALL	490886	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
900	ALL	490936	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
901	ALL	490986	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
902	ALL	491036	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
903	ALL	491086	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
904	ALL	491136	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
905	ALL	490136	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-03
906	ALL	490186	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03
907	ALL	490236	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03
908	ALL	490286	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03
909	ALL	490336	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03
910	ALL	490386	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03
911	ALL	490436	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
912	ALL	490486	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03
913	ALL	490536	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
914	ALL	490586	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
915	ALL	490636	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
916	ALL	490686	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
917	ALL	490736	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
918	ALL	490786	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
919	ALL	490836	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
920	ALL	490886	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
921	ALL	490936	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
922	ALL	490986	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
923	ALL	491036	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
924	ALL	491086	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
925	ALL	490136	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-03
926	ALL	490186	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03
927	ALL	490236	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03
928	ALL	490286	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03
929	ALL	490336	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03
930	ALL	490386	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03
931	ALL	490436	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-03
932	ALL	490486	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03
933	ALL	490536	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
934	ALL	490586	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03
935	ALL	490636	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03
936	ALL	490686	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
937	ALL	490736	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
938	ALL	490786	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
939	ALL	490836	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
940	ALL	490886	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
941	ALL	490936	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
942	ALL	490986	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
943	ALL	491036	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
944	ALL	491086	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
945	ALL	490136	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03
946	ALL	490186	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-03
947	ALL	490236	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03
948	ALL	490286	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03

949	ALL	490336	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-03
950	ALL	490386	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03
951	ALL	490436	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03
952	ALL	490486	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-03
953	ALL	490536	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
954	ALL	490586	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
955	ALL	490636	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
956	ALL	490686	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
957	ALL	490736	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
958	ALL	490786	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
959	ALL	490836	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
960	ALL	490136	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03
961	ALL	490186	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-03
962	ALL	490236	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-03
963	ALL	490286	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03
964	ALL	490336	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03
965	ALL	490386	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03
966	ALL	490436	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03
967	ALL	490486	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03
968	ALL	490536	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03
969	ALL	490586	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
970	ALL	490636	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
971	ALL	490686	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
972	ALL	490736	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
973	ALL	490786	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
974	ALL	490836	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
975	ALL	490136	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-03
976	ALL	490186	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03
977	ALL	490236	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03
978	ALL	490286	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03
979	ALL	490336	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03
980	ALL	490386	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-03
981	ALL	490436	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03
982	ALL	490486	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03
983	ALL	490536	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03
984	ALL	490586	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03
985	ALL	490636	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
986	ALL	490686	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
987	ALL	490736	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
988	ALL	490786	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
989	ALL	490136	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-03
990	ALL	490186	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03
991	ALL	490236	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03
992	ALL	490286	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03
993	ALL	490336	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03
994	ALL	490386	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03
995	ALL	490436	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03
996	ALL	490486	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03
997	ALL	490536	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03
998	ALL	490586	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03

999	ALL	490636	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
1000	ALL	490686	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
1001	ALL	490736	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
1002	ALL	490786	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
1003	ALL	490136	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03
1004	ALL	490186	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-03
1005	ALL	490236	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03
1006	ALL	490286	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03
1007	ALL	490336	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03
1008	ALL	490386	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03
1009	ALL	490436	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03
1010	ALL	490486	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03
1011	ALL	490536	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
1012	ALL	490586	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
1013	ALL	490636	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03
1014	ALL	490686	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
1015	ALL	490736	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
1016	ALL	490786	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
1017	ALL	490136	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03
1018	ALL	490186	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03
1019	ALL	490236	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03
1020	ALL	490286	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03
1021	ALL	490336	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03
1022	ALL	490386	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-03
1023	ALL	490436	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03
1024	ALL	490486	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
1025	ALL	490536	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03
1026	ALL	490586	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03
1027	ALL	490636	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
1028	ALL	490686	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
1029	ALL	490736	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
1030	ALL	490786	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
1031	ALL	490136	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-03
1032	ALL	490186	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-03
1033	ALL	490236	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03
1034	ALL	490286	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03
1035	ALL	490336	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03
1036	ALL	490386	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03
1037	ALL	490436	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
1038	ALL	490486	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
1039	ALL	490536	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03
1040	ALL	490586	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03
1041	ALL	490636	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
1042	ALL	490686	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
1043	ALL	490736	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
1044	ALL	490786	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
1045	ALL	490136	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03
1046	ALL	490186	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03
1047	ALL	490236	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03
1048	ALL	490286	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03

1049 ALL	490336	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03
1050 ALL	490386	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-03
1051 ALL	490436	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
1052 ALL	490486	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
1053 ALL	490536	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03
1054 ALL	490586	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
1055 ALL	490636	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
1056 ALL	490686	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
1057 ALL	490736	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
1058 ALL	490786	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
1059 ALL	490136	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03
1060 ALL	490186	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03
1061 ALL	490236	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03
1062 ALL	490286	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03
1063 ALL	490336	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
1064 ALL	490386	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03
1065 ALL	490436	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
1066 ALL	490486	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03
1067 ALL	490536	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
1068 ALL	490586	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
1069 ALL	490636	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
1070 ALL	490686	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
1071 ALL	490736	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
1072 ALL	490786	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
1073 ALL	489986	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-03
1074 ALL	490036	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-03
1075 ALL	490086	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-03
1076 ALL	490136	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03
1077 ALL	490186	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03
1078 ALL	490236	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03
1079 ALL	490286	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03
1080 ALL	490336	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03
1081 ALL	490386	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
1082 ALL	490436	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
1083 ALL	490486	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
1084 ALL	490536	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
1085 ALL	490586	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
1086 ALL	490636	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
1087 ALL	490686	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
1088 ALL	490736	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
1089 ALL	490786	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
1090 ALL	490836	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
1091 ALL	489836	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-03
1092 ALL	489886	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03
1093 ALL	489936	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03
1094 ALL	489986	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-03
1095 ALL	490036	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
1096 ALL	490086	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03
1097 ALL	490136	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03
1098 ALL	490186	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03

1099 ALL	490236	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03
1100 ALL	490286	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03
1101 ALL	490336	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
1102 ALL	490386	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
1103 ALL	490436	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
1104 ALL	490486	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
1105 ALL	490536	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
1106 ALL	490586	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
1107 ALL	490636	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
1108 ALL	490686	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
1109 ALL	490736	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
1110 ALL	490786	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
1111 ALL	490836	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
1112 ALL	490886	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
1113 ALL	490936	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
1114 ALL	489836	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-03
1115 ALL	489886	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03
1116 ALL	489936	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03
1117 ALL	489986	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03
1118 ALL	490036	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03
1119 ALL	490086	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
1120 ALL	490136	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03
1121 ALL	490186	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
1122 ALL	490236	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
1123 ALL	490286	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
1124 ALL	490336	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
1125 ALL	490386	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
1126 ALL	490436	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
1127 ALL	490486	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
1128 ALL	490536	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
1129 ALL	490586	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
1130 ALL	490636	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
1131 ALL	490686	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
1132 ALL	490736	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
1133 ALL	490786	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
1134 ALL	490836	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
1135 ALL	490886	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1136 ALL	490936	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
1137 ALL	489836	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03
1138 ALL	489886	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03
1139 ALL	489936	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03
1140 ALL	489986	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03
1141 ALL	490036	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
1142 ALL	490086	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
1143 ALL	490136	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
1144 ALL	490186	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
1145 ALL	490236	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
1146 ALL	490286	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
1147 ALL	490336	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
1148 ALL	490386	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03

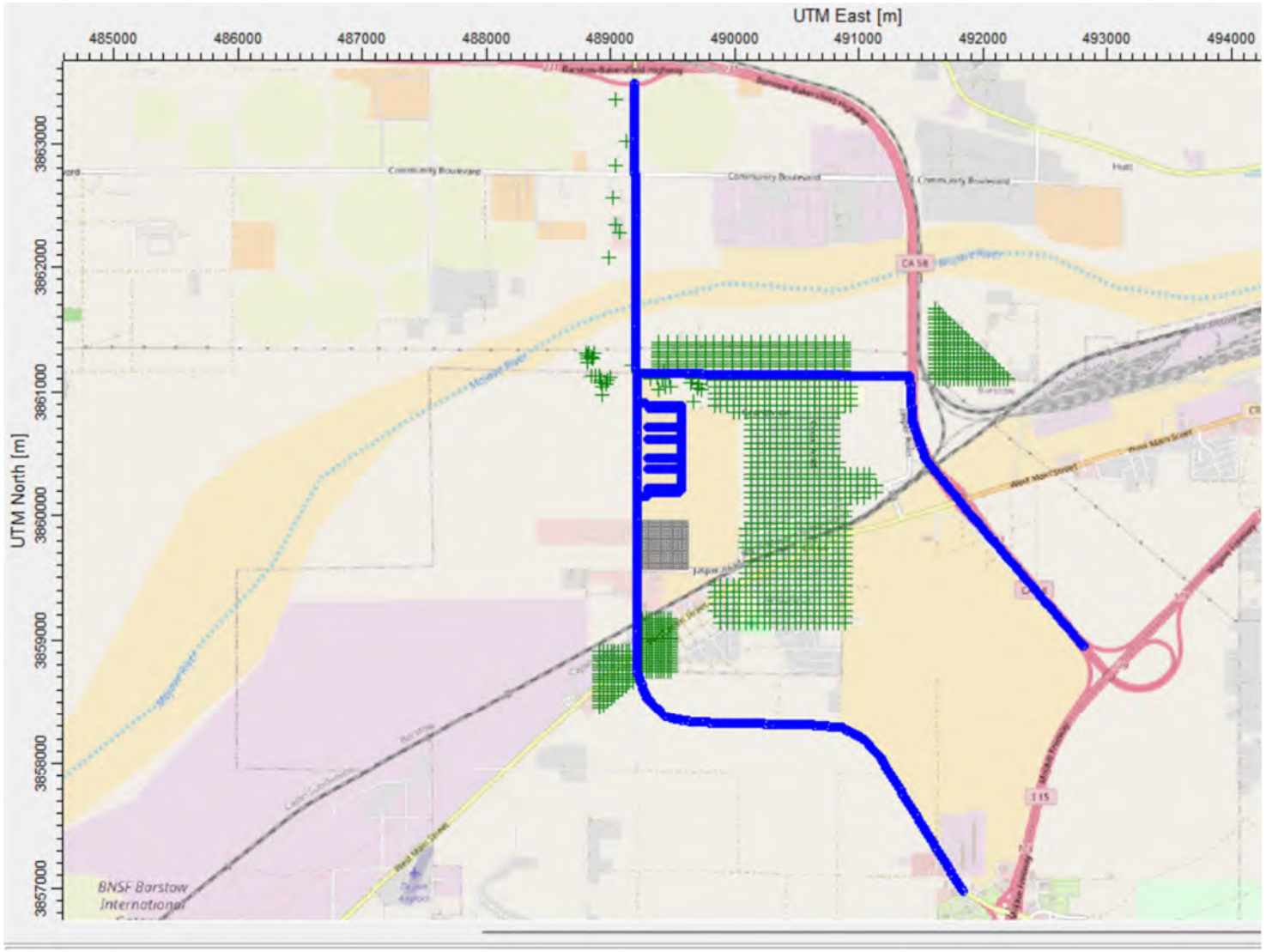
1149	ALL	490436	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
1150	ALL	490486	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
1151	ALL	490536	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
1152	ALL	490586	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
1153	ALL	490636	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
1154	ALL	490686	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
1155	ALL	490736	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
1156	ALL	490786	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
1157	ALL	490836	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
1158	ALL	490886	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
1159	ALL	490936	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04
1160	ALL	489836	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
1161	ALL	489886	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
1162	ALL	489936	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
1163	ALL	489986	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
1164	ALL	490036	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
1165	ALL	490086	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
1166	ALL	490136	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
1167	ALL	490186	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
1168	ALL	490236	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
1169	ALL	490286	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
1170	ALL	490336	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
1171	ALL	490386	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
1172	ALL	490436	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
1173	ALL	490486	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
1174	ALL	490536	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
1175	ALL	490586	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
1176	ALL	490636	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
1177	ALL	490686	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
1178	ALL	490736	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
1179	ALL	490786	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04
1180	ALL	490836	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-04
1181	ALL	490886	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04
1182	ALL	490936	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-04
1183	ALL	489836	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
1184	ALL	489886	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
1185	ALL	489936	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
1186	ALL	489986	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
1187	ALL	490036	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
1188	ALL	490086	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
1189	ALL	490136	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
1190	ALL	490186	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
1191	ALL	490236	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
1192	ALL	490286	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
1193	ALL	490336	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
1194	ALL	490386	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
1195	ALL	490436	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
1196	ALL	490486	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
1197	ALL	490536	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
1198	ALL	490586	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03

1199	ALL	490636	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04
1200	ALL	490686	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04
1201	ALL	490736	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-04
1202	ALL	490786	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04
1203	ALL	490836	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04
1204	ALL	490886	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
1205	ALL	490936	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04
1206	ALL	489836	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
1207	ALL	489886	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
1208	ALL	489936	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
1209	ALL	489986	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
1210	ALL	490036	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
1211	ALL	490086	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
1212	ALL	490136	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1213	ALL	490186	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
1214	ALL	490236	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
1215	ALL	490286	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
1216	ALL	490336	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
1217	ALL	490386	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-04
1218	ALL	490436	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-04
1219	ALL	490486	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-04
1220	ALL	490536	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-04
1221	ALL	490586	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04
1222	ALL	490636	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-04
1223	ALL	490686	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-04
1224	ALL	490736	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04
1225	ALL	490786	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04
1226	ALL	490836	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-04
1227	ALL	490886	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04
1228	ALL	490936	3861139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-04

5.86E-03

Operation HRA
Files

Figure 2. Operation AERMOD Sources and Receptor Locations



Notes: Cartesian receptor grid modeled south of the project site with 20 meter spacing.

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 7/17/2024
** File: C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\LennwoodOP\LennwoodOP.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\dlarocca\Desktop\Lakes Files\15054 Lennwood\Lennwood\Lennwo
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL LennwoodOP.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = LOADING1
** DESCRSRC North building north loading docks
** PREFIX
** Length of Side = 8.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 8.00
** SZINIT = 3.72
** Nodes = 2
** 489307.554, 3860870.858, 672.50, 4.00, 3.72
** 489526.928, 3860870.858, 672.22, 4.00, 3.72
** ------------------------------------------------------------------
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   LOCATION L0000149     VOLUME   489311.554 3860870.858 672.81
   LOCATION L0000150     VOLUME   489319.554 3860870.858 673.38
   LOCATION L0000151     VOLUME   489327.554 3860870.858 673.96
   LOCATION L0000152     VOLUME   489335.554 3860870.858 674.57
   LOCATION L0000153     VOLUME   489343.554 3860870.858 675.17
   LOCATION L0000154     VOLUME   489351.554 3860870.858 675.77
   LOCATION L0000155     VOLUME   489359.554 3860870.858 676.13
   LOCATION L0000156     VOLUME   489367.554 3860870.858 676.46
   LOCATION L0000157     VOLUME   489375.554 3860870.858 676.79
   LOCATION L0000158     VOLUME   489383.554 3860870.858 676.72
   LOCATION L0000159     VOLUME   489391.554 3860870.858 676.48
   LOCATION L0000160     VOLUME   489399.554 3860870.858 676.24
   LOCATION L0000161     VOLUME   489407.554 3860870.858 675.90
   LOCATION L0000162     VOLUME   489415.554 3860870.858 675.47
   LOCATION L0000163     VOLUME   489423.554 3860870.858 675.03
   LOCATION L0000164     VOLUME   489431.554 3860870.858 674.63
   LOCATION L0000165     VOLUME   489439.554 3860870.858 674.26
   LOCATION L0000166     VOLUME   489447.554 3860870.858 673.89
   LOCATION L0000167     VOLUME   489455.554 3860870.858 673.56
   LOCATION L0000168     VOLUME   489463.554 3860870.858 673.43
   LOCATION L0000169     VOLUME   489471.554 3860870.858 673.29
   LOCATION L0000170     VOLUME   489479.554 3860870.858 673.16
   LOCATION L0000171     VOLUME   489487.554 3860870.858 672.98
   LOCATION L0000172     VOLUME   489495.554 3860870.858 672.79
   LOCATION L0000173     VOLUME   489503.554 3860870.858 672.61
   LOCATION L0000174     VOLUME   489511.554 3860870.858 672.36
   LOCATION L0000175     VOLUME   489519.554 3860870.858 672.10
** End of LINE VOLUME Source ID = LOADING1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = LOADING2
** DESCRSRC North building south loading docks
** PREFIX
** Length of Side = 8.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 8.00
** SZINIT = 3.72
** Nodes = 2
** 489304.230, 3860709.651, 672.42, 4.00, 3.72
** 489527.759, 3860711.313, 680.98, 4.00, 3.72
** ----------------------------------------------------------------------
   LOCATION L0000176     VOLUME   489308.230 3860709.681 672.48
   LOCATION L0000177     VOLUME   489316.230 3860709.741 672.49
   LOCATION L0000178     VOLUME   489324.229 3860709.800 672.51
   LOCATION L0000179     VOLUME   489332.229 3860709.859 672.68
   LOCATION L0000180     VOLUME   489340.229 3860709.919 672.93
   LOCATION L0000181     VOLUME   489348.229 3860709.978 673.17
   LOCATION L0000182     VOLUME   489356.228 3860710.038 673.55
   LOCATION L0000183     VOLUME   489364.228 3860710.097 674.06
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   LOCATION L0000184     VOLUME   489372.228 3860710.157 674.58
   LOCATION L0000185     VOLUME   489380.228 3860710.216 675.12
   LOCATION L0000186     VOLUME   489388.228 3860710.276 675.72
   LOCATION L0000187     VOLUME   489396.227 3860710.335 676.32
   LOCATION L0000188     VOLUME   489404.227 3860710.395 676.88
   LOCATION L0000189     VOLUME   489412.227 3860710.454 677.21
   LOCATION L0000190     VOLUME   489420.227 3860710.514 677.54
   LOCATION L0000191     VOLUME   489428.226 3860710.573 677.88
   LOCATION L0000192     VOLUME   489436.226 3860710.633 678.14
   LOCATION L0000193     VOLUME   489444.226 3860710.692 678.39
   LOCATION L0000194     VOLUME   489452.226 3860710.752 678.65
   LOCATION L0000195     VOLUME   489460.226 3860710.811 678.95
   LOCATION L0000196     VOLUME   489468.225 3860710.871 679.27
   LOCATION L0000197     VOLUME   489476.225 3860710.930 679.59
   LOCATION L0000198     VOLUME   489484.225 3860710.990 679.91
   LOCATION L0000199     VOLUME   489492.225 3860711.049 680.24
   LOCATION L0000200     VOLUME   489500.224 3860711.109 680.57
   LOCATION L0000201     VOLUME   489508.224 3860711.168 680.78
   LOCATION L0000202     VOLUME   489516.224 3860711.227 680.85
   LOCATION L0000203     VOLUME   489524.224 3860711.287 680.93
** End of LINE VOLUME Source ID = LOADING2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = LOADING3
** DESCRSRC Mid Building north side loading
** PREFIX
** Length of Side = 8.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 8.00
** SZINIT = 3.72
** Nodes = 2
** 489304.062, 3860622.191, 672.85, 4.00, 3.72
** 489527.261, 3860622.191, 675.81, 4.00, 3.72
** ----------------------------------------------------------------------
   LOCATION L0000204     VOLUME   489308.062 3860622.191 672.89
   LOCATION L0000205     VOLUME   489316.062 3860622.191 672.92
   LOCATION L0000206     VOLUME   489324.062 3860622.191 672.94
   LOCATION L0000207     VOLUME   489332.062 3860622.191 672.96
   LOCATION L0000208     VOLUME   489340.062 3860622.191 672.99
   LOCATION L0000209     VOLUME   489348.062 3860622.191 673.01
   LOCATION L0000210     VOLUME   489356.062 3860622.191 673.10
   LOCATION L0000211     VOLUME   489364.062 3860622.191 673.26
   LOCATION L0000212     VOLUME   489372.062 3860622.191 673.43
   LOCATION L0000213     VOLUME   489380.062 3860622.191 673.62
   LOCATION L0000214     VOLUME   489388.062 3860622.191 673.87
   LOCATION L0000215     VOLUME   489396.062 3860622.191 674.12
   LOCATION L0000216     VOLUME   489404.062 3860622.191 674.32
   LOCATION L0000217     VOLUME   489412.062 3860622.191 674.26
   LOCATION L0000218     VOLUME   489420.062 3860622.191 674.20
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   LOCATION L0000219     VOLUME   489428.062 3860622.191 674.14
   LOCATION L0000220     VOLUME   489436.062 3860622.191 674.27
   LOCATION L0000221     VOLUME   489444.062 3860622.191 674.40
   LOCATION L0000222     VOLUME   489452.062 3860622.191 674.53
   LOCATION L0000223     VOLUME   489460.062 3860622.191 674.70
   LOCATION L0000224     VOLUME   489468.062 3860622.191 674.88
   LOCATION L0000225     VOLUME   489476.062 3860622.191 675.06
   LOCATION L0000226     VOLUME   489484.062 3860622.191 675.21
   LOCATION L0000227     VOLUME   489492.062 3860622.191 675.36
   LOCATION L0000228     VOLUME   489500.062 3860622.191 675.50
   LOCATION L0000229     VOLUME   489508.062 3860622.191 675.64
   LOCATION L0000230     VOLUME   489516.062 3860622.191 675.77
   LOCATION L0000231     VOLUME   489524.062 3860622.191 675.90
** End of LINE VOLUME Source ID = LOADING3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = LOADING4
** DESCRSRC Mid building south loading docks
** PREFIX
** Length of Side = 8.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 8.00
** SZINIT = 3.72
** Nodes = 2
** 489304.062, 3860463.974, 673.80, 4.00, 3.72
** 489529.380, 3860463.974, 676.21, 4.00, 3.72
** ----------------------------------------------------------------------
   LOCATION L0000232     VOLUME   489308.062 3860463.974 673.86
   LOCATION L0000233     VOLUME   489316.062 3860463.974 673.92
   LOCATION L0000234     VOLUME   489324.062 3860463.974 673.99
   LOCATION L0000235     VOLUME   489332.062 3860463.974 674.06
   LOCATION L0000236     VOLUME   489340.062 3860463.974 674.13
   LOCATION L0000237     VOLUME   489348.062 3860463.974 674.20
   LOCATION L0000238     VOLUME   489356.062 3860463.974 674.24
   LOCATION L0000239     VOLUME   489364.062 3860463.974 674.23
   LOCATION L0000240     VOLUME   489372.062 3860463.974 674.23
   LOCATION L0000241     VOLUME   489380.062 3860463.974 674.21
   LOCATION L0000242     VOLUME   489388.062 3860463.974 674.13
   LOCATION L0000243     VOLUME   489396.062 3860463.974 674.06
   LOCATION L0000244     VOLUME   489404.062 3860463.974 674.00
   LOCATION L0000245     VOLUME   489412.062 3860463.974 674.00
   LOCATION L0000246     VOLUME   489420.062 3860463.974 674.00
   LOCATION L0000247     VOLUME   489428.062 3860463.974 673.99
   LOCATION L0000248     VOLUME   489436.062 3860463.974 674.02
   LOCATION L0000249     VOLUME   489444.062 3860463.974 674.06
   LOCATION L0000250     VOLUME   489452.062 3860463.974 674.09
   LOCATION L0000251     VOLUME   489460.062 3860463.974 674.23
   LOCATION L0000252     VOLUME   489468.062 3860463.974 674.39
   LOCATION L0000253     VOLUME   489476.062 3860463.974 674.55
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   LOCATION L0000254     VOLUME   489484.062 3860463.974 674.81
   LOCATION L0000255     VOLUME   489492.062 3860463.974 675.11
   LOCATION L0000256     VOLUME   489500.062 3860463.974 675.42
   LOCATION L0000257     VOLUME   489508.062 3860463.974 675.66
   LOCATION L0000258     VOLUME   489516.062 3860463.974 675.83
   LOCATION L0000259     VOLUME   489524.062 3860463.974 676.00
** End of LINE VOLUME Source ID = LOADING4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = LOADING5
** DESCRSRC South building north loading docks
** PREFIX
** Length of Side = 8.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 8.00
** SZINIT = 3.72
** Nodes = 2
** 489304.062, 3860374.271, 675.01, 4.00, 3.72
** 489527.261, 3860374.977, 674.87, 4.00, 3.72
** ----------------------------------------------------------------------
   LOCATION L0000260     VOLUME   489308.062 3860374.283 675.02
   LOCATION L0000261     VOLUME   489316.062 3860374.309 675.06
   LOCATION L0000262     VOLUME   489324.062 3860374.334 675.11
   LOCATION L0000263     VOLUME   489332.062 3860374.359 675.15
   LOCATION L0000264     VOLUME   489340.062 3860374.385 675.20
   LOCATION L0000265     VOLUME   489348.062 3860374.410 675.26
   LOCATION L0000266     VOLUME   489356.062 3860374.435 675.25
   LOCATION L0000267     VOLUME   489364.062 3860374.461 675.18
   LOCATION L0000268     VOLUME   489372.062 3860374.486 675.11
   LOCATION L0000269     VOLUME   489380.061 3860374.511 675.04
   LOCATION L0000270     VOLUME   489388.061 3860374.537 674.96
   LOCATION L0000271     VOLUME   489396.061 3860374.562 674.87
   LOCATION L0000272     VOLUME   489404.061 3860374.587 674.80
   LOCATION L0000273     VOLUME   489412.061 3860374.612 674.77
   LOCATION L0000274     VOLUME   489420.061 3860374.638 674.74
   LOCATION L0000275     VOLUME   489428.061 3860374.663 674.70
   LOCATION L0000276     VOLUME   489436.061 3860374.688 674.66
   LOCATION L0000277     VOLUME   489444.061 3860374.714 674.61
   LOCATION L0000278     VOLUME   489452.061 3860374.739 674.57
   LOCATION L0000279     VOLUME   489460.061 3860374.764 674.53
   LOCATION L0000280     VOLUME   489468.061 3860374.790 674.49
   LOCATION L0000281     VOLUME   489476.061 3860374.815 674.46
   LOCATION L0000282     VOLUME   489484.061 3860374.840 674.47
   LOCATION L0000283     VOLUME   489492.061 3860374.866 674.52
   LOCATION L0000284     VOLUME   489500.061 3860374.891 674.57
   LOCATION L0000285     VOLUME   489508.061 3860374.916 674.63
   LOCATION L0000286     VOLUME   489516.061 3860374.942 674.71
   LOCATION L0000287     VOLUME   489524.061 3860374.967 674.79
** End of LINE VOLUME Source ID = LOADING5
```

```
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = LOADING6
** DESCRSRC South building south loading docks
** PREFIX
** Length of Side = 8.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 8.00
** SZINIT = 3.72
** Nodes = 2
** 489301.943, 3860214.641, 676.82, 4.00, 3.72
** 489530.793, 3860213.228, 682.15, 4.00, 3.72
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   LOCATION L0000289     VOLUME   489313.943 3860214.567 677.06
   LOCATION L0000290     VOLUME   489321.942 3860214.517 677.19
   LOCATION L0000291     VOLUME   489329.942 3860214.468 677.37
   LOCATION L0000292     VOLUME   489337.942 3860214.419 677.60
   LOCATION L0000293     VOLUME   489345.942 3860214.369 677.83
   LOCATION L0000294     VOLUME   489353.942 3860214.320 678.07
   LOCATION L0000295     VOLUME   489361.942 3860214.271 678.30
   LOCATION L0000296     VOLUME   489369.942 3860214.221 678.54
   LOCATION L0000297     VOLUME   489377.941 3860214.172 678.79
   LOCATION L0000298     VOLUME   489385.941 3860214.122 679.09
   LOCATION L0000299     VOLUME   489393.941 3860214.073 679.40
   LOCATION L0000300     VOLUME   489401.941 3860214.024 679.71
   LOCATION L0000301     VOLUME   489409.941 3860213.974 679.96
   LOCATION L0000302     VOLUME   489417.941 3860213.925 680.21
   LOCATION L0000303     VOLUME   489425.941 3860213.876 680.46
   LOCATION L0000304     VOLUME   489433.940 3860213.826 680.82
   LOCATION L0000305     VOLUME   489441.940 3860213.777 681.20
   LOCATION L0000306     VOLUME   489449.940 3860213.727 681.59
   LOCATION L0000307     VOLUME   489457.940 3860213.678 681.87
   LOCATION L0000308     VOLUME   489465.940 3860213.629 682.08
   LOCATION L0000309     VOLUME   489473.940 3860213.579 682.28
   LOCATION L0000310     VOLUME   489481.939 3860213.530 682.44
   LOCATION L0000311     VOLUME   489489.939 3860213.480 682.52
   LOCATION L0000312     VOLUME   489497.939 3860213.431 682.60
   LOCATION L0000313     VOLUME   489505.939 3860213.382 682.67
   LOCATION L0000314     VOLUME   489513.939 3860213.332 682.71
   LOCATION L0000315     VOLUME   489521.939 3860213.283 682.75
   LOCATION L0000316     VOLUME   489529.939 3860213.234 682.79
** End of LINE VOLUME Source ID = LOADING6
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = ONSITE
** DESCRSRC Truck travel onsite
** PREFIX
** Length of Side = 8.00
```

```
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 8.00
** SZINIT = 3.72
** Nodes = 9
** 489223.708, 3860152.412, 677.26, 4.00, 3.72
** 489289.414, 3860152.412, 678.14, 4.00, 3.72
** 489298.130, 3860188.617, 677.07, 4.00, 3.72
** 489552.238, 3860188.617, 686.24, 4.00, 3.72
** 489572.352, 3860205.379, 682.76, 4.00, 3.72
** 489567.659, 3860890.600, 669.61, 4.00, 3.72
** 489300.141, 3860890.600, 671.07, 4.00, 3.72
** 489280.027, 3860906.691, 669.96, 4.00, 3.72
** 489222.367, 3860906.021, 670.14, 4.00, 3.72
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   LOCATION L0000318     VOLUME   489235.708 3860152.412 677.47
   LOCATION L0000319     VOLUME   489243.708 3860152.412 677.54
   LOCATION L0000320     VOLUME   489251.708 3860152.412 677.62
   LOCATION L0000321     VOLUME   489259.708 3860152.412 677.75
   LOCATION L0000322     VOLUME   489267.708 3860152.412 677.89
   LOCATION L0000323     VOLUME   489275.708 3860152.412 678.02
   LOCATION L0000324     VOLUME   489283.708 3860152.412 678.25
   LOCATION L0000325     VOLUME   489289.951 3860154.642 678.25
   LOCATION L0000326     VOLUME   489291.823 3860162.420 677.88
   LOCATION L0000327     VOLUME   489293.696 3860170.198 677.65
   LOCATION L0000328     VOLUME   489295.568 3860177.976 677.40
   LOCATION L0000329     VOLUME   489297.441 3860185.753 677.14
   LOCATION L0000330     VOLUME   489303.184 3860188.617 677.12
   LOCATION L0000331     VOLUME   489311.184 3860188.617 677.29
   LOCATION L0000332     VOLUME   489319.184 3860188.617 677.45
   LOCATION L0000333     VOLUME   489327.184 3860188.617 677.64
   LOCATION L0000334     VOLUME   489335.184 3860188.617 677.94
   LOCATION L0000335     VOLUME   489343.184 3860188.617 678.24
   LOCATION L0000336     VOLUME   489351.184 3860188.617 678.54
   LOCATION L0000337     VOLUME   489359.184 3860188.617 678.92
   LOCATION L0000338     VOLUME   489367.184 3860188.617 679.31
   LOCATION L0000339     VOLUME   489375.184 3860188.617 679.70
   LOCATION L0000340     VOLUME   489383.184 3860188.617 680.02
   LOCATION L0000341     VOLUME   489391.184 3860188.617 680.33
   LOCATION L0000342     VOLUME   489399.184 3860188.617 680.64
   LOCATION L0000343     VOLUME   489407.184 3860188.617 681.04
   LOCATION L0000344     VOLUME   489415.184 3860188.617 681.51
   LOCATION L0000345     VOLUME   489423.184 3860188.617 681.97
   LOCATION L0000346     VOLUME   489431.184 3860188.617 682.44
   LOCATION L0000347     VOLUME   489439.184 3860188.617 682.90
   LOCATION L0000348     VOLUME   489447.184 3860188.617 683.35
   LOCATION L0000349     VOLUME   489455.184 3860188.617 683.82
   LOCATION L0000350     VOLUME   489463.184 3860188.617 684.31
   LOCATION L0000351     VOLUME   489471.184 3860188.617 684.81
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LOCATION L0000352 VOLUME 489479.184 3860188.617 685.27
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LOCATION L0000354 VOLUME 489495.184 3860188.617 685.54
LOCATION L0000355 VOLUME 489503.184 3860188.617 685.67
LOCATION L0000356 VOLUME 489511.184 3860188.617 685.88
LOCATION L0000357 VOLUME 489519.184 3860188.617 686.09
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LOCATION L0000359 VOLUME 489535.184 3860188.617 686.31
LOCATION L0000360 VOLUME 489543.184 3860188.617 686.24
LOCATION L0000361 VOLUME 489551.184 3860188.617 686.17
LOCATION L0000362 VOLUME 489557.574 3860193.064 685.47
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LOCATION L0000365 VOLUME 489572.320 3860210.142 683.09
LOCATION L0000366 VOLUME 489572.265 3860218.142 682.03
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LOCATION L0000368 VOLUME 489572.155 3860234.142 681.35
LOCATION L0000369 VOLUME 489572.101 3860242.141 681.05
LOCATION L0000370 VOLUME 489572.046 3860250.141 680.74
LOCATION L0000371 VOLUME 489571.991 3860258.141 680.22
LOCATION L0000372 VOLUME 489571.936 3860266.141 679.71
LOCATION L0000373 VOLUME 489571.881 3860274.141 679.20
LOCATION L0000374 VOLUME 489571.827 3860282.141 678.69
LOCATION L0000375 VOLUME 489571.772 3860290.140 678.19
LOCATION L0000376 VOLUME 489571.717 3860298.140 677.69
LOCATION L0000377 VOLUME 489571.662 3860306.140 677.19
LOCATION L0000378 VOLUME 489571.608 3860314.140 676.75
LOCATION L0000379 VOLUME 489571.553 3860322.140 676.43
LOCATION L0000380 VOLUME 489571.498 3860330.139 676.12
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LOCATION L0000382 VOLUME 489571.388 3860346.139 675.57
LOCATION L0000383 VOLUME 489571.334 3860354.139 675.41
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LOCATION L0000386 VOLUME 489571.169 3860378.138 674.99
LOCATION L0000387 VOLUME 489571.114 3860386.138 674.91
LOCATION L0000388 VOLUME 489571.060 3860394.138 674.83
LOCATION L0000389 VOLUME 489571.005 3860402.138 674.75
LOCATION L0000390 VOLUME 489570.950 3860410.138 674.68
LOCATION L0000391 VOLUME 489570.895 3860418.137 674.63
LOCATION L0000392 VOLUME 489570.840 3860426.137 674.58
LOCATION L0000393 VOLUME 489570.786 3860434.137 674.52
LOCATION L0000394 VOLUME 489570.731 3860442.137 674.78
LOCATION L0000395 VOLUME 489570.676 3860450.137 675.06
LOCATION L0000396 VOLUME 489570.621 3860458.136 675.34
LOCATION L0000397 VOLUME 489570.566 3860466.136 675.69
LOCATION L0000398 VOLUME 489570.512 3860474.136 676.79
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LOCATION L0000401 VOLUME 489570.347 3860498.135 679.73

LOCATION L0000402 VOLUME 489570.292 3860506.135 679.21
LOCATION L0000403 VOLUME 489570.238 3860514.135 678.69
LOCATION L0000404 VOLUME 489570.183 3860522.135 678.17
LOCATION L0000405 VOLUME 489570.128 3860530.135 677.66
LOCATION L0000406 VOLUME 489570.073 3860538.135 677.19
LOCATION L0000407 VOLUME 489570.019 3860546.134 676.72
LOCATION L0000408 VOLUME 489569.964 3860554.134 676.25
LOCATION L0000409 VOLUME 489569.909 3860562.134 676.03
LOCATION L0000410 VOLUME 489569.854 3860570.134 676.02
LOCATION L0000411 VOLUME 489569.799 3860578.134 676.01
LOCATION L0000412 VOLUME 489569.745 3860586.133 676.00
LOCATION L0000413 VOLUME 489569.690 3860594.133 676.33
LOCATION L0000414 VOLUME 489569.635 3860602.133 676.83
LOCATION L0000415 VOLUME 489569.580 3860610.133 677.33
LOCATION L0000416 VOLUME 489569.525 3860618.133 677.83
LOCATION L0000417 VOLUME 489569.471 3860626.132 678.22
LOCATION L0000418 VOLUME 489569.416 3860634.132 678.60
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LOCATION L0000420 VOLUME 489569.306 3860650.132 679.37
LOCATION L0000421 VOLUME 489569.251 3860658.132 679.58
LOCATION L0000422 VOLUME 489569.197 3860666.131 679.78
LOCATION L0000423 VOLUME 489569.142 3860674.131 679.99
LOCATION L0000424 VOLUME 489569.087 3860682.131 680.15
LOCATION L0000425 VOLUME 489569.032 3860690.131 680.01
LOCATION L0000426 VOLUME 489568.977 3860698.131 679.86
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LOCATION L0000433 VOLUME 489568.594 3860754.129 678.53
LOCATION L0000434 VOLUME 489568.539 3860762.129 678.20
LOCATION L0000435 VOLUME 489568.484 3860770.129 677.87
LOCATION L0000436 VOLUME 489568.429 3860778.129 677.34
LOCATION L0000437 VOLUME 489568.375 3860786.129 676.65
LOCATION L0000438 VOLUME 489568.320 3860794.128 675.96
LOCATION L0000439 VOLUME 489568.265 3860802.128 675.28
LOCATION L0000440 VOLUME 489568.210 3860810.128 674.77
LOCATION L0000441 VOLUME 489568.156 3860818.128 674.34
LOCATION L0000442 VOLUME 489568.101 3860826.128 673.90
LOCATION L0000443 VOLUME 489568.046 3860834.128 673.46
LOCATION L0000444 VOLUME 489567.991 3860842.127 672.99
LOCATION L0000445 VOLUME 489567.936 3860850.127 672.52
LOCATION L0000446 VOLUME 489567.882 3860858.127 672.04
LOCATION L0000447 VOLUME 489567.827 3860866.127 671.56
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LOCATION L0000450 VOLUME 489567.662 3860890.126 669.79
LOCATION L0000451 VOLUME 489560.133 3860890.600 669.93

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   LOCATION L0000452     VOLUME   489552.133 3860890.600 670.07
   LOCATION L0000453     VOLUME   489544.133 3860890.600 670.15
   LOCATION L0000454     VOLUME   489536.133 3860890.600 670.23
   LOCATION L0000455     VOLUME   489528.133 3860890.600 670.33
   LOCATION L0000456     VOLUME   489520.133 3860890.600 670.49
   LOCATION L0000457     VOLUME   489512.133 3860890.600 670.64
   LOCATION L0000458     VOLUME   489504.133 3860890.600 670.80
   LOCATION L0000459     VOLUME   489496.133 3860890.600 670.95
   LOCATION L0000460     VOLUME   489488.133 3860890.600 671.10
   LOCATION L0000461     VOLUME   489480.133 3860890.600 671.25
   LOCATION L0000462     VOLUME   489472.133 3860890.600 671.35
   LOCATION L0000463     VOLUME   489464.133 3860890.600 671.44
   LOCATION L0000464     VOLUME   489456.133 3860890.600 671.53
   LOCATION L0000465     VOLUME   489448.133 3860890.600 671.73
   LOCATION L0000466     VOLUME   489440.133 3860890.600 671.99
   LOCATION L0000467     VOLUME   489432.133 3860890.600 672.24
   LOCATION L0000468     VOLUME   489424.133 3860890.600 672.58
   LOCATION L0000469     VOLUME   489416.133 3860890.600 672.99
   LOCATION L0000470     VOLUME   489408.133 3860890.600 673.39
   LOCATION L0000471     VOLUME   489400.133 3860890.600 673.69
   LOCATION L0000472     VOLUME   489392.133 3860890.600 673.79
   LOCATION L0000473     VOLUME   489384.133 3860890.600 673.90
   LOCATION L0000474     VOLUME   489376.133 3860890.600 673.95
   LOCATION L0000475     VOLUME   489368.133 3860890.600 673.79
   LOCATION L0000476     VOLUME   489360.133 3860890.600 673.62
   LOCATION L0000477     VOLUME   489352.133 3860890.600 673.45
   LOCATION L0000478     VOLUME   489344.133 3860890.600 673.13
   LOCATION L0000479     VOLUME   489336.133 3860890.600 672.81
   LOCATION L0000480     VOLUME   489328.133 3860890.600 672.49
   LOCATION L0000481     VOLUME   489320.133 3860890.600 672.12
   LOCATION L0000482     VOLUME   489312.133 3860890.600 671.75
   LOCATION L0000483     VOLUME   489304.133 3860890.600 671.38
   LOCATION L0000484     VOLUME   489297.011 3860893.104 670.98
   LOCATION L0000485     VOLUME   489290.764 3860898.102 670.55
   LOCATION L0000486     VOLUME   489284.517 3860903.099 670.17
   LOCATION L0000487     VOLUME   489277.778 3860906.665 669.81
   LOCATION L0000488     VOLUME   489269.778 3860906.572 669.65
   LOCATION L0000489     VOLUME   489261.779 3860906.479 669.52
   LOCATION L0000490     VOLUME   489253.779 3860906.386 669.40
   LOCATION L0000491     VOLUME   489245.780 3860906.293 669.54
   LOCATION L0000492     VOLUME   489237.780 3860906.200 669.83
   LOCATION L0000493     VOLUME   489229.781 3860906.107 670.12
** End of LINE VOLUME Source ID = ONSITE
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = TRUCK1
** DESCRSRC Site to Agate Road
** PREFIX
** Length of Side = 13.40
** Configuration = Adjacent
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** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 2
** 489207.827, 3860544.250, 673.45, 3.40, 6.23
** 489212.010, 3861142.442, 667.89, 3.40, 6.23
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   LOCATION L0000494     VOLUME   489207.874 3860550.950 673.36
   LOCATION L0000495     VOLUME   489207.968 3860564.350 673.36
   LOCATION L0000496     VOLUME   489208.061 3860577.749 673.44
   LOCATION L0000497     VOLUME   489208.155 3860591.149 673.49
   LOCATION L0000498     VOLUME   489208.249 3860604.549 673.41
   LOCATION L0000499     VOLUME   489208.342 3860617.948 673.33
   LOCATION L0000500     VOLUME   489208.436 3860631.348 673.04
   LOCATION L0000501     VOLUME   489208.530 3860644.748 672.72
   LOCATION L0000502     VOLUME   489208.624 3860658.147 672.55
   LOCATION L0000503     VOLUME   489208.717 3860671.547 672.50
   LOCATION L0000504     VOLUME   489208.811 3860684.947 672.45
   LOCATION L0000505     VOLUME   489208.905 3860698.346 672.37
   LOCATION L0000506     VOLUME   489208.998 3860711.746 672.29
   LOCATION L0000507     VOLUME   489209.092 3860725.146 672.28
   LOCATION L0000508     VOLUME   489209.186 3860738.545 672.27
   LOCATION L0000509     VOLUME   489209.279 3860751.945 672.15
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   LOCATION L0000512     VOLUME   489209.561 3860792.144 671.61
   LOCATION L0000513     VOLUME   489209.654 3860805.544 671.43
   LOCATION L0000514     VOLUME   489209.748 3860818.943 671.34
   LOCATION L0000515     VOLUME   489209.842 3860832.343 671.24
   LOCATION L0000516     VOLUME   489209.935 3860845.743 671.02
   LOCATION L0000517     VOLUME   489210.029 3860859.142 670.77
   LOCATION L0000518     VOLUME   489210.123 3860872.542 670.57
   LOCATION L0000519     VOLUME   489210.217 3860885.942 670.44
   LOCATION L0000520     VOLUME   489210.310 3860899.341 670.30
   LOCATION L0000521     VOLUME   489210.404 3860912.741 670.14
   LOCATION L0000522     VOLUME   489210.498 3860926.141 669.99
   LOCATION L0000523     VOLUME   489210.591 3860939.541 669.78
   LOCATION L0000524     VOLUME   489210.685 3860952.940 669.57
   LOCATION L0000525     VOLUME   489210.779 3860966.340 669.46
   LOCATION L0000526     VOLUME   489210.872 3860979.740 669.42
   LOCATION L0000527     VOLUME   489210.966 3860993.139 669.35
   LOCATION L0000528     VOLUME   489211.060 3861006.539 669.20
   LOCATION L0000529     VOLUME   489211.154 3861019.939 669.04
   LOCATION L0000530     VOLUME   489211.247 3861033.338 668.91
   LOCATION L0000531     VOLUME   489211.341 3861046.738 668.78
   LOCATION L0000532     VOLUME   489211.435 3861060.138 668.68
   LOCATION L0000533     VOLUME   489211.528 3861073.537 668.59
   LOCATION L0000534     VOLUME   489211.622 3861086.937 668.49
   LOCATION L0000535     VOLUME   489211.716 3861100.337 668.37
   LOCATION L0000536     VOLUME   489211.809 3861113.736 668.25
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   LOCATION L0000537     VOLUME   489211.903 3861127.136 668.10
   LOCATION L0000538     VOLUME   489211.997 3861140.536 667.95
** End of LINE VOLUME Source ID = TRUCK1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = TRUCK2
** DESCRSRC Agate Road to I-15 via SR-58
** PREFIX
** Length of Side = 13.40
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 6
** 489228.102, 3861146.896, 668.16, 3.40, 6.23
** 491409.389, 3861125.719, 664.92, 3.40, 6.23
** 491430.566, 3860765.701, 671.43, 3.40, 6.23
** 491536.454, 3860458.626, 681.55, 3.40, 6.23
** 491838.234, 3860077.431, 687.16, 3.40, 6.23
** 492817.695, 3858939.138, 726.18, 3.40, 6.23
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   LOCATION L0000540     VOLUME   489248.201 3861146.701 668.24
   LOCATION L0000541     VOLUME   489261.600 3861146.571 668.24
   LOCATION L0000542     VOLUME   489275.000 3861146.441 668.22
   LOCATION L0000543     VOLUME   489288.399 3861146.311 668.36
   LOCATION L0000544     VOLUME   489301.798 3861146.181 668.51
   LOCATION L0000545     VOLUME   489315.198 3861146.051 668.55
   LOCATION L0000546     VOLUME   489328.597 3861145.921 668.60
   LOCATION L0000547     VOLUME   489341.997 3861145.791 668.77
   LOCATION L0000548     VOLUME   489355.396 3861145.661 668.94
   LOCATION L0000549     VOLUME   489368.795 3861145.531 669.09
   LOCATION L0000550     VOLUME   489382.195 3861145.400 669.18
   LOCATION L0000551     VOLUME   489395.594 3861145.270 669.15
   LOCATION L0000552     VOLUME   489408.993 3861145.140 669.06
   LOCATION L0000553     VOLUME   489422.393 3861145.010 668.91
   LOCATION L0000554     VOLUME   489435.792 3861144.880 668.71
   LOCATION L0000555     VOLUME   489449.192 3861144.750 668.47
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   LOCATION L0000881     VOLUME   492644.706 3859140.180 718.81
   LOCATION L0000882     VOLUME   492653.446 3859130.022 719.21
   LOCATION L0000883     VOLUME   492662.186 3859119.865 719.66
   LOCATION L0000884     VOLUME   492670.926 3859109.708 719.99
   LOCATION L0000885     VOLUME   492679.666 3859099.550 720.40
   LOCATION L0000886     VOLUME   492688.406 3859089.393 720.84
   LOCATION L0000887     VOLUME   492697.146 3859079.236 721.14
   LOCATION L0000888     VOLUME   492705.886 3859069.078 721.57
   LOCATION L0000889     VOLUME   492714.626 3859058.921 722.02
   LOCATION L0000890     VOLUME   492723.366 3859048.763 722.34
   LOCATION L0000891     VOLUME   492732.106 3859038.606 722.79
   LOCATION L0000892     VOLUME   492740.846 3859028.449 723.23
   LOCATION L0000893     VOLUME   492749.586 3859018.291 723.54
   LOCATION L0000894     VOLUME   492758.326 3859008.134 723.95
   LOCATION L0000895     VOLUME   492767.066 3858997.977 724.29
   LOCATION L0000896     VOLUME   492775.806 3858987.819 724.42
   LOCATION L0000897     VOLUME   492784.546 3858977.662 724.89
   LOCATION L0000898     VOLUME   492793.286 3858967.505 725.38
   LOCATION L0000899     VOLUME   492802.026 3858957.347 725.65
   LOCATION L0000900     VOLUME   492810.766 3858947.190 726.04
** End of LINE VOLUME Source ID = TRUCK2
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = TRUCK3
** DESCRSRC Agate Road to  SR-58 via Lenwood Road
** PREFIX
** Length of Side = 13.40
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 2
** 489206.924, 3861183.957, 667.32, 3.40, 6.23
** 489191.041, 3863492.309, 664.11, 3.40, 6.23
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   LOCATION L0000901     VOLUME   489206.878 3861190.657 667.40
   LOCATION L0000902     VOLUME   489206.786 3861204.057 667.28
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LOCATION L0000903 VOLUME 489206.694 3861217.456 667.16
LOCATION L0000904 VOLUME 489206.602 3861230.856 667.04
LOCATION L0000905 VOLUME 489206.510 3861244.256 666.97
LOCATION L0000906 VOLUME 489206.417 3861257.655 666.94
LOCATION L0000907 VOLUME 489206.325 3861271.055 666.92
LOCATION L0000908 VOLUME 489206.233 3861284.455 666.89
LOCATION L0000909 VOLUME 489206.141 3861297.854 666.86
LOCATION L0000910 VOLUME 489206.049 3861311.254 666.72
LOCATION L0000911 VOLUME 489205.956 3861324.654 666.57
LOCATION L0000912 VOLUME 489205.864 3861338.054 666.44
LOCATION L0000913 VOLUME 489205.772 3861351.453 666.31
LOCATION L0000914 VOLUME 489205.680 3861364.853 666.21
LOCATION L0000915 VOLUME 489205.588 3861378.253 666.15
LOCATION L0000916 VOLUME 489205.495 3861391.652 666.08
LOCATION L0000917 VOLUME 489205.403 3861405.052 665.99
LOCATION L0000918 VOLUME 489205.311 3861418.452 665.91
LOCATION L0000919 VOLUME 489205.219 3861431.851 665.86
LOCATION L0000920 VOLUME 489205.127 3861445.251 665.82
LOCATION L0000921 VOLUME 489205.034 3861458.651 665.78
LOCATION L0000922 VOLUME 489204.942 3861472.050 665.72
LOCATION L0000923 VOLUME 489204.850 3861485.450 665.65
LOCATION L0000924 VOLUME 489204.758 3861498.850 665.53
LOCATION L0000925 VOLUME 489204.666 3861512.249 665.42
LOCATION L0000926 VOLUME 489204.573 3861525.649 665.26
LOCATION L0000927 VOLUME 489204.481 3861539.049 665.09
LOCATION L0000928 VOLUME 489204.389 3861552.448 664.96
LOCATION L0000929 VOLUME 489204.297 3861565.848 664.85
LOCATION L0000930 VOLUME 489204.205 3861579.248 664.75
LOCATION L0000931 VOLUME 489204.112 3861592.647 664.68
LOCATION L0000932 VOLUME 489204.020 3861606.047 664.60
LOCATION L0000933 VOLUME 489203.928 3861619.447 664.19
LOCATION L0000934 VOLUME 489203.836 3861632.847 663.79
LOCATION L0000935 VOLUME 489203.744 3861646.246 663.23
LOCATION L0000936 VOLUME 489203.651 3861659.646 662.59
LOCATION L0000937 VOLUME 489203.559 3861673.046 662.24
LOCATION L0000938 VOLUME 489203.467 3861686.445 662.25
LOCATION L0000939 VOLUME 489203.375 3861699.845 662.26
LOCATION L0000940 VOLUME 489203.283 3861713.245 662.27
LOCATION L0000941 VOLUME 489203.190 3861726.644 662.29
LOCATION L0000942 VOLUME 489203.098 3861740.044 662.72
LOCATION L0000943 VOLUME 489203.006 3861753.444 663.24
LOCATION L0000944 VOLUME 489202.914 3861766.843 663.63
LOCATION L0000945 VOLUME 489202.822 3861780.243 663.91
LOCATION L0000946 VOLUME 489202.729 3861793.643 664.13
LOCATION L0000947 VOLUME 489202.637 3861807.042 664.14
LOCATION L0000948 VOLUME 489202.545 3861820.442 664.15
LOCATION L0000949 VOLUME 489202.453 3861833.842 664.16
LOCATION L0000950 VOLUME 489202.361 3861847.241 664.18
LOCATION L0000951 VOLUME 489202.268 3861860.641 664.18
LOCATION L0000952 VOLUME 489202.176 3861874.041 664.18

LOCATION L0000953 VOLUME 489202.084 3861887.440 664.19
LOCATION L0000954 VOLUME 489201.992 3861900.840 664.23
LOCATION L0000955 VOLUME 489201.900 3861914.240 664.28
LOCATION L0000956 VOLUME 489201.807 3861927.640 664.40
LOCATION L0000957 VOLUME 489201.715 3861941.039 664.52
LOCATION L0000958 VOLUME 489201.623 3861954.439 664.69
LOCATION L0000959 VOLUME 489201.531 3861967.839 664.87
LOCATION L0000960 VOLUME 489201.439 3861981.238 665.05
LOCATION L0000961 VOLUME 489201.346 3861994.638 665.22
LOCATION L0000962 VOLUME 489201.254 3862008.038 665.39
LOCATION L0000963 VOLUME 489201.162 3862021.437 665.51
LOCATION L0000964 VOLUME 489201.070 3862034.837 665.64
LOCATION L0000965 VOLUME 489200.978 3862048.237 665.75
LOCATION L0000966 VOLUME 489200.885 3862061.636 665.86
LOCATION L0000967 VOLUME 489200.793 3862075.036 665.94
LOCATION L0000968 VOLUME 489200.701 3862088.436 665.99
LOCATION L0000969 VOLUME 489200.609 3862101.835 666.04
LOCATION L0000970 VOLUME 489200.517 3862115.235 666.08
LOCATION L0000971 VOLUME 489200.424 3862128.635 666.13
LOCATION L0000972 VOLUME 489200.332 3862142.034 666.15
LOCATION L0000973 VOLUME 489200.240 3862155.434 666.17
LOCATION L0000974 VOLUME 489200.148 3862168.834 666.18
LOCATION L0000975 VOLUME 489200.056 3862182.234 666.19
LOCATION L0000976 VOLUME 489199.963 3862195.633 666.18
LOCATION L0000977 VOLUME 489199.871 3862209.033 666.14
LOCATION L0000978 VOLUME 489199.779 3862222.433 666.10
LOCATION L0000979 VOLUME 489199.687 3862235.832 666.09
LOCATION L0000980 VOLUME 489199.595 3862249.232 666.07
LOCATION L0000981 VOLUME 489199.502 3862262.632 666.06
LOCATION L0000982 VOLUME 489199.410 3862276.031 666.05
LOCATION L0000983 VOLUME 489199.318 3862289.431 666.03
LOCATION L0000984 VOLUME 489199.226 3862302.831 666.01
LOCATION L0000985 VOLUME 489199.134 3862316.230 665.99
LOCATION L0000986 VOLUME 489199.041 3862329.630 665.94
LOCATION L0000987 VOLUME 489198.949 3862343.030 665.88
LOCATION L0000988 VOLUME 489198.857 3862356.429 665.83
LOCATION L0000989 VOLUME 489198.765 3862369.829 665.78
LOCATION L0000990 VOLUME 489198.673 3862383.229 665.77
LOCATION L0000991 VOLUME 489198.580 3862396.628 665.79
LOCATION L0000992 VOLUME 489198.488 3862410.028 665.79
LOCATION L0000993 VOLUME 489198.396 3862423.428 665.72
LOCATION L0000994 VOLUME 489198.304 3862436.827 665.64
LOCATION L0000995 VOLUME 489198.212 3862450.227 665.62
LOCATION L0000996 VOLUME 489198.119 3862463.627 665.61
LOCATION L0000997 VOLUME 489198.027 3862477.027 665.57
LOCATION L0000998 VOLUME 489197.935 3862490.426 665.53
LOCATION L0000999 VOLUME 489197.843 3862503.826 665.52
LOCATION L0001000 VOLUME 489197.751 3862517.226 665.55
LOCATION L0001001 VOLUME 489197.658 3862530.625 665.58
LOCATION L0001002 VOLUME 489197.566 3862544.025 665.59

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LOCATION L0001003     VOLUME   489197.474 3862557.425 665.60
LOCATION L0001004     VOLUME   489197.382 3862570.824 665.56
LOCATION L0001005     VOLUME   489197.290 3862584.224 665.51
LOCATION L0001006     VOLUME   489197.197 3862597.624 665.45
LOCATION L0001007     VOLUME   489197.105 3862611.023 665.39
LOCATION L0001008     VOLUME   489197.013 3862624.423 665.35
LOCATION L0001009     VOLUME   489196.921 3862637.823 665.34
LOCATION L0001010     VOLUME   489196.829 3862651.222 665.33
LOCATION L0001011     VOLUME   489196.736 3862664.622 665.31
LOCATION L0001012     VOLUME   489196.644 3862678.022 665.29
LOCATION L0001013     VOLUME   489196.552 3862691.421 665.27
LOCATION L0001014     VOLUME   489196.460 3862704.821 665.24
LOCATION L0001015     VOLUME   489196.368 3862718.221 665.23
LOCATION L0001016     VOLUME   489196.275 3862731.621 665.24
LOCATION L0001017     VOLUME   489196.183 3862745.020 665.26
LOCATION L0001018     VOLUME   489196.091 3862758.420 665.18
LOCATION L0001019     VOLUME   489195.999 3862771.820 665.10
LOCATION L0001020     VOLUME   489195.907 3862785.219 665.02
LOCATION L0001021     VOLUME   489195.814 3862798.619 664.93
LOCATION L0001022     VOLUME   489195.722 3862812.019 664.87
LOCATION L0001023     VOLUME   489195.630 3862825.418 664.83
LOCATION L0001024     VOLUME   489195.538 3862838.818 664.80
LOCATION L0001025     VOLUME   489195.446 3862852.218 664.76
LOCATION L0001026     VOLUME   489195.353 3862865.617 664.72
LOCATION L0001027     VOLUME   489195.261 3862879.017 664.67
LOCATION L0001028     VOLUME   489195.169 3862892.417 664.63
LOCATION L0001029     VOLUME   489195.077 3862905.816 664.58
LOCATION L0001030     VOLUME   489194.985 3862919.216 664.53
LOCATION L0001031     VOLUME   489194.892 3862932.616 664.48
LOCATION L0001032     VOLUME   489194.800 3862946.015 664.48
LOCATION L0001033     VOLUME   489194.708 3862959.415 664.48
LOCATION L0001034     VOLUME   489194.616 3862972.815 664.38
LOCATION L0001035     VOLUME   489194.524 3862986.214 664.27
LOCATION L0001036     VOLUME   489194.431 3862999.614 664.25
LOCATION L0001037     VOLUME   489194.339 3863013.014 664.29
LOCATION L0001038     VOLUME   489194.247 3863026.414 664.28
LOCATION L0001039     VOLUME   489194.155 3863039.813 664.14
LOCATION L0001040     VOLUME   489194.063 3863053.213 663.99
LOCATION L0001041     VOLUME   489193.970 3863066.613 663.99
LOCATION L0001042     VOLUME   489193.878 3863080.012 663.99
LOCATION L0001043     VOLUME   489193.786 3863093.412 663.97
LOCATION L0001044     VOLUME   489193.694 3863106.812 663.95
LOCATION L0001045     VOLUME   489193.602 3863120.211 663.95
LOCATION L0001046     VOLUME   489193.509 3863133.611 663.99
LOCATION L0001047     VOLUME   489193.417 3863147.011 664.03
LOCATION L0001048     VOLUME   489193.325 3863160.410 664.10
LOCATION L0001049     VOLUME   489193.233 3863173.810 664.17
LOCATION L0001050     VOLUME   489193.141 3863187.210 664.21
LOCATION L0001051     VOLUME   489193.048 3863200.609 664.26
LOCATION L0001052     VOLUME   489192.956 3863214.009 664.31
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   LOCATION L0001053     VOLUME   489192.864 3863227.409 664.39
   LOCATION L0001054     VOLUME   489192.772 3863240.808 664.42
   LOCATION L0001055     VOLUME   489192.680 3863254.208 664.26
   LOCATION L0001056     VOLUME   489192.587 3863267.608 664.09
   LOCATION L0001057     VOLUME   489192.495 3863281.008 664.09
   LOCATION L0001058     VOLUME   489192.403 3863294.407 664.10
   LOCATION L0001059     VOLUME   489192.311 3863307.807 664.10
   LOCATION L0001060     VOLUME   489192.219 3863321.207 664.10
   LOCATION L0001061     VOLUME   489192.126 3863334.606 664.08
   LOCATION L0001062     VOLUME   489192.034 3863348.006 664.05
   LOCATION L0001063     VOLUME   489191.942 3863361.406 664.01
   LOCATION L0001064     VOLUME   489191.850 3863374.805 664.01
   LOCATION L0001065     VOLUME   489191.758 3863388.205 664.00
   LOCATION L0001066     VOLUME   489191.665 3863401.605 663.98
   LOCATION L0001067     VOLUME   489191.573 3863415.004 663.95
   LOCATION L0001068     VOLUME   489191.481 3863428.404 663.94
   LOCATION L0001069     VOLUME   489191.389 3863441.804 663.97
   LOCATION L0001070     VOLUME   489191.297 3863455.203 664.01
   LOCATION L0001071     VOLUME   489191.204 3863468.603 664.07
   LOCATION L0001072     VOLUME   489191.112 3863482.003 664.12
** End of LINE VOLUME Source ID = TRUCK3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 13.40
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 11
** 489208.239, 3860511.574, 673.62, 3.40, 6.23
** 489216.181, 3858732.654, 685.78, 3.40, 6.23
** 489287.655, 3858534.114, 687.46, 3.40, 6.23
** 489438.546, 3858383.223, 689.33, 0.00, 6.23
** 489589.436, 3858343.515, 690.54, 0.00, 6.23
** 489835.626, 3858327.632, 692.09, 0.00, 6.23
** 490605.962, 3858311.749, 698.48, 0.00, 6.23
** 490868.035, 3858287.924, 700.45, 0.00, 6.23
** 491042.750, 3858192.625, 702.94, 0.00, 6.23
** 491169.816, 3858049.676, 707.67, 0.00, 6.23
** 491844.853, 3856961.676, 717.15, 0.00, 6.23
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   LOCATION L0001073     VOLUME   489208.269 3860504.874 673.70
   LOCATION L0001074     VOLUME   489208.329 3860491.474 673.83
   LOCATION L0001075     VOLUME   489208.389 3860478.074 673.94
   LOCATION L0001076     VOLUME   489208.449 3860464.674 674.05
   LOCATION L0001077     VOLUME   489208.508 3860451.275 674.20
   LOCATION L0001078     VOLUME   489208.568 3860437.875 674.36
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LOCATION L0001079 VOLUME 489208.628 3860424.475 674.68
LOCATION L0001080 VOLUME 489208.688 3860411.075 675.06
LOCATION L0001081 VOLUME 489208.748 3860397.675 675.22
LOCATION L0001082 VOLUME 489208.808 3860384.275 675.17
LOCATION L0001083 VOLUME 489208.867 3860370.875 675.16
LOCATION L0001084 VOLUME 489208.927 3860357.475 675.31
LOCATION L0001085 VOLUME 489208.987 3860344.076 675.45
LOCATION L0001086 VOLUME 489209.047 3860330.676 675.65
LOCATION L0001087 VOLUME 489209.107 3860317.276 675.85
LOCATION L0001088 VOLUME 489209.166 3860303.876 676.00
LOCATION L0001089 VOLUME 489209.226 3860290.476 676.10
LOCATION L0001090 VOLUME 489209.286 3860277.076 676.21
LOCATION L0001091 VOLUME 489209.346 3860263.676 676.35
LOCATION L0001092 VOLUME 489209.406 3860250.277 676.48
LOCATION L0001093 VOLUME 489209.466 3860236.877 676.71
LOCATION L0001094 VOLUME 489209.525 3860223.477 676.93
LOCATION L0001095 VOLUME 489209.585 3860210.077 677.03
LOCATION L0001096 VOLUME 489209.645 3860196.677 677.08
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LOCATION L0001100 VOLUME 489209.884 3860143.078 677.63
LOCATION L0001101 VOLUME 489209.944 3860129.678 677.82
LOCATION L0001102 VOLUME 489210.004 3860116.278 677.99
LOCATION L0001103 VOLUME 489210.064 3860102.878 678.16
LOCATION L0001104 VOLUME 489210.124 3860089.478 678.27
LOCATION L0001105 VOLUME 489210.183 3860076.078 678.32
LOCATION L0001106 VOLUME 489210.243 3860062.678 678.39
LOCATION L0001107 VOLUME 489210.303 3860049.279 678.51
LOCATION L0001108 VOLUME 489210.363 3860035.879 678.63
LOCATION L0001109 VOLUME 489210.423 3860022.479 678.73
LOCATION L0001110 VOLUME 489210.482 3860009.079 678.82
LOCATION L0001111 VOLUME 489210.542 3859995.679 678.94
LOCATION L0001112 VOLUME 489210.602 3859982.279 679.07
LOCATION L0001113 VOLUME 489210.662 3859968.879 679.10
LOCATION L0001114 VOLUME 489210.722 3859955.479 678.88
LOCATION L0001115 VOLUME 489210.782 3859942.080 678.67
LOCATION L0001116 VOLUME 489210.841 3859928.680 678.75
LOCATION L0001117 VOLUME 489210.901 3859915.280 678.82
LOCATION L0001118 VOLUME 489210.961 3859901.880 678.85
LOCATION L0001119 VOLUME 489211.021 3859888.480 678.85
LOCATION L0001120 VOLUME 489211.081 3859875.080 678.85
LOCATION L0001121 VOLUME 489211.141 3859861.680 678.86
LOCATION L0001122 VOLUME 489211.200 3859848.281 678.88
LOCATION L0001123 VOLUME 489211.260 3859834.881 678.96
LOCATION L0001124 VOLUME 489211.320 3859821.481 679.04
LOCATION L0001125 VOLUME 489211.380 3859808.081 679.11
LOCATION L0001126 VOLUME 489211.440 3859794.681 679.16
LOCATION L0001127 VOLUME 489211.499 3859781.281 679.22
LOCATION L0001128 VOLUME 489211.559 3859767.881 679.27

LOCATION L0001129 VOLUME 489211.619 3859754.481 679.33
LOCATION L0001130 VOLUME 489211.679 3859741.082 679.43
LOCATION L0001131 VOLUME 489211.739 3859727.682 679.53
LOCATION L0001132 VOLUME 489211.799 3859714.282 679.64
LOCATION L0001133 VOLUME 489211.858 3859700.882 679.74
LOCATION L0001134 VOLUME 489211.918 3859687.482 679.85
LOCATION L0001135 VOLUME 489211.978 3859674.082 679.97
LOCATION L0001136 VOLUME 489212.038 3859660.682 680.09
LOCATION L0001137 VOLUME 489212.098 3859647.283 680.18
LOCATION L0001138 VOLUME 489212.157 3859633.883 680.28
LOCATION L0001139 VOLUME 489212.217 3859620.483 680.35
LOCATION L0001140 VOLUME 489212.277 3859607.083 680.41
LOCATION L0001141 VOLUME 489212.337 3859593.683 680.46
LOCATION L0001142 VOLUME 489212.397 3859580.283 680.51
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LOCATION L0001144 VOLUME 489212.516 3859553.483 680.91
LOCATION L0001145 VOLUME 489212.576 3859540.084 681.15
LOCATION L0001146 VOLUME 489212.636 3859526.684 681.25
LOCATION L0001147 VOLUME 489212.696 3859513.284 681.35
LOCATION L0001148 VOLUME 489212.756 3859499.884 681.43
LOCATION L0001149 VOLUME 489212.815 3859486.484 681.51
LOCATION L0001150 VOLUME 489212.875 3859473.084 681.58
LOCATION L0001151 VOLUME 489212.935 3859459.684 681.66
LOCATION L0001152 VOLUME 489212.995 3859446.285 681.72
LOCATION L0001153 VOLUME 489213.055 3859432.885 681.78
LOCATION L0001154 VOLUME 489213.115 3859419.485 681.84
LOCATION L0001155 VOLUME 489213.174 3859406.085 682.00
LOCATION L0001156 VOLUME 489213.234 3859392.685 682.17
LOCATION L0001157 VOLUME 489213.294 3859379.285 682.28
LOCATION L0001158 VOLUME 489213.354 3859365.885 682.35
LOCATION L0001159 VOLUME 489213.414 3859352.485 682.40
LOCATION L0001160 VOLUME 489213.474 3859339.086 682.42
LOCATION L0001161 VOLUME 489213.533 3859325.686 682.45
LOCATION L0001162 VOLUME 489213.593 3859312.286 682.71
LOCATION L0001163 VOLUME 489213.653 3859298.886 682.97
LOCATION L0001164 VOLUME 489213.713 3859285.486 683.02
LOCATION L0001165 VOLUME 489213.773 3859272.086 682.99
LOCATION L0001166 VOLUME 489213.832 3859258.686 683.07
LOCATION L0001167 VOLUME 489213.892 3859245.287 683.28
LOCATION L0001168 VOLUME 489213.952 3859231.887 683.49
LOCATION L0001169 VOLUME 489214.012 3859218.487 683.71
LOCATION L0001170 VOLUME 489214.072 3859205.087 683.94
LOCATION L0001171 VOLUME 489214.132 3859191.687 684.12
LOCATION L0001172 VOLUME 489214.191 3859178.287 684.29
LOCATION L0001173 VOLUME 489214.251 3859164.887 684.52
LOCATION L0001174 VOLUME 489214.311 3859151.487 684.80
LOCATION L0001175 VOLUME 489214.371 3859138.088 685.01
LOCATION L0001176 VOLUME 489214.431 3859124.688 684.99
LOCATION L0001177 VOLUME 489214.490 3859111.288 684.97
LOCATION L0001178 VOLUME 489214.550 3859097.888 684.83

LOCATION L0001179 VOLUME 489214.610 3859084.488 684.70
LOCATION L0001180 VOLUME 489214.670 3859071.088 684.64
LOCATION L0001181 VOLUME 489214.730 3859057.688 684.63
LOCATION L0001182 VOLUME 489214.790 3859044.289 684.62
LOCATION L0001183 VOLUME 489214.849 3859030.889 684.61
LOCATION L0001184 VOLUME 489214.909 3859017.489 684.59
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** Source Parameters **
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   SRCPARAM L0000153     0.037037037      4.00      3.72      3.72
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   SRCPARAM L0000155     0.037037037      4.00      3.72      3.72
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   SRCPARAM L0000156     0.037037037      4.00      3.72      3.72
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   SRCPARAM L0000160     0.037037037      4.00      3.72      3.72
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   SRCPARAM L0000162     0.037037037      4.00      3.72      3.72
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   SRCPARAM L0000165     0.037037037      4.00      3.72      3.72
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   SRCPARAM L0000171     0.037037037      4.00      3.72      3.72
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   SRCPARAM L0000173     0.037037037      4.00      3.72      3.72
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   SRCPARAM L0000175     0.037037037      4.00      3.72      3.72
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   SRCPARAM L0000180     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000181     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000182     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000183     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000184     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000185     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000186     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000187     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000188     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000189     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000190     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000191     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000192     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000193     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000194     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000195     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000196     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000197     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000198     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000199     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000200     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000201     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000202     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000203     0.0357142857      4.00      3.72      3.72
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** LINE VOLUME Source ID = LOADING3
   SRCPARAM L0000204     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000205     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000206     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000207     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000208     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000209     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000210     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000211     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000212     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000213     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000214     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000215     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000216     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000217     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000218     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000219     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000220     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000221     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000222     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000223     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000224     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000225     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000226     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000227     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000228     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000229     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000230     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000231     0.0357142857      4.00      3.72      3.72
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = LOADING4
   SRCPARAM L0000232     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000233     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000234     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000235     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000236     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000237     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000238     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000239     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000240     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000241     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000242     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000243     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000244     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000245     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000246     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000247     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000248     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000249     0.0357142857      4.00      3.72      3.72
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   SRCPARAM L0000250     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000251     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000252     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000253     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000254     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000255     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000256     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000257     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000258     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000259     0.0357142857      4.00      3.72      3.72
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** LINE VOLUME Source ID = LOADING5
   SRCPARAM L0000260     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000261     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000262     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000263     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000264     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000265     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000266     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000267     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000268     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000269     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000270     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000271     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000272     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000273     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000274     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000275     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000276     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000277     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000278     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000279     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000280     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000281     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000282     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000283     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000284     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000285     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000286     0.0357142857      4.00      3.72      3.72
   SRCPARAM L0000287     0.0357142857      4.00      3.72      3.72
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** LINE VOLUME Source ID = LOADING6
   SRCPARAM L0000288     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000289     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000290     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000291     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000292     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000293     0.0344827586      4.00      3.72      3.72
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   SRCPARAM L0000295     0.0344827586      4.00      3.72      3.72
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   SRCPARAM L0000296     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000297     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000298     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000299     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000300     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000301     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000302     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000303     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000304     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000305     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000306     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000307     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000308     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000309     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000310     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000311     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000312     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000313     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000314     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000315     0.0344827586      4.00      3.72      3.72
   SRCPARAM L0000316     0.0344827586      4.00      3.72      3.72
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** LINE VOLUME Source ID = ONSITE
   SRCPARAM L0000317     0.0056497175      4.00      3.72      3.72
   SRCPARAM L0000318     0.0056497175      4.00      3.72      3.72
   SRCPARAM L0000319     0.0056497175      4.00      3.72      3.72
   SRCPARAM L0000320     0.0056497175      4.00      3.72      3.72
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   SRCPARAM L0000322     0.0056497175      4.00      3.72      3.72
   SRCPARAM L0000323     0.0056497175      4.00      3.72      3.72
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   SRCPARAM L0000326     0.0056497175      4.00      3.72      3.72
   SRCPARAM L0000327     0.0056497175      4.00      3.72      3.72
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   SRCPARAM L0000332     0.0056497175      4.00      3.72      3.72
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   SRCPARAM L0000334     0.0056497175      4.00      3.72      3.72
   SRCPARAM L0000335     0.0056497175      4.00      3.72      3.72
   SRCPARAM L0000336     0.0056497175      4.00      3.72      3.72
   SRCPARAM L0000337     0.0056497175      4.00      3.72      3.72
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   SRCPARAM L0000339     0.0056497175      4.00      3.72      3.72
   SRCPARAM L0000340     0.0056497175      4.00      3.72      3.72
   SRCPARAM L0000341     0.0056497175      4.00      3.72      3.72
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SRCPARAM L0000464     0.0056497175      4.00      3.72      3.72
SRCPARAM L0000465     0.0056497175      4.00      3.72      3.72
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SRCPARAM L0000473     0.0056497175      4.00      3.72      3.72
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SRCPARAM L0000479     0.0056497175      4.00      3.72      3.72
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SRCPARAM L0000493     0.0056497175      4.00      3.72      3.72
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   SRCPARAM L0000496     0.0222222222      3.40      6.23      3.16
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   SRCPARAM L0000502     0.0222222222      3.40      6.23      3.16
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   SRCPARAM L0000505     0.0222222222      3.40      6.23      3.16
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** LINE VOLUME Source ID = TRUCK2
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SRCPARAM L0000540     0.0027624309      3.40      6.23      3.16
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SRCGROUP TRUCK2   L0000593 L0000594 L0000595 L0000596 L0000597 L0000598
SRCGROUP TRUCK2   L0000599 L0000600 L0000601 L0000602 L0000603 L0000604
SRCGROUP TRUCK2   L0000605 L0000606 L0000607 L0000608 L0000609 L0000610
SRCGROUP TRUCK2   L0000611 L0000612 L0000613 L0000614 L0000615 L0000616
SRCGROUP TRUCK2   L0000617 L0000618 L0000619 L0000620 L0000621 L0000622
SRCGROUP TRUCK2   L0000623 L0000624 L0000625 L0000626 L0000627 L0000628
SRCGROUP TRUCK2   L0000629 L0000630 L0000631 L0000632 L0000633 L0000634
SRCGROUP TRUCK2   L0000635 L0000636 L0000637 L0000638 L0000639 L0000640
SRCGROUP TRUCK2   L0000641 L0000642 L0000643 L0000644 L0000645 L0000646
SRCGROUP TRUCK2   L0000647 L0000648 L0000649 L0000650 L0000651 L0000652
SRCGROUP TRUCK2   L0000653 L0000654 L0000655 L0000656 L0000657 L0000658
SRCGROUP TRUCK2   L0000659 L0000660 L0000661 L0000662 L0000663 L0000664
SRCGROUP TRUCK2   L0000665 L0000666 L0000667 L0000668 L0000669 L0000670
SRCGROUP TRUCK2   L0000671 L0000672 L0000673 L0000674 L0000675 L0000676
SRCGROUP TRUCK2   L0000677 L0000678 L0000679 L0000680 L0000681 L0000682
SRCGROUP TRUCK2   L0000683 L0000684 L0000685 L0000686 L0000687 L0000688
SRCGROUP TRUCK2   L0000689 L0000690 L0000691 L0000692 L0000693 L0000694
SRCGROUP TRUCK2   L0000695 L0000696 L0000697 L0000698 L0000699 L0000700
SRCGROUP TRUCK2   L0000701 L0000702 L0000703 L0000704 L0000705 L0000706
SRCGROUP TRUCK2   L0000707 L0000708 L0000709 L0000710 L0000711 L0000712
SRCGROUP TRUCK2   L0000713 L0000714 L0000715 L0000716 L0000717 L0000718
SRCGROUP TRUCK2   L0000719 L0000720 L0000721 L0000722 L0000723 L0000724
SRCGROUP TRUCK2   L0000725 L0000726 L0000727 L0000728 L0000729 L0000730
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SRCGROUP TRUCK2   L0000731 L0000732 L0000733 L0000734 L0000735 L0000736
SRCGROUP TRUCK2   L0000737 L0000738 L0000739 L0000740 L0000741 L0000742
SRCGROUP TRUCK2   L0000743 L0000744 L0000745 L0000746 L0000747 L0000748
SRCGROUP TRUCK2   L0000749 L0000750 L0000751 L0000752 L0000753 L0000754
SRCGROUP TRUCK2   L0000755 L0000756 L0000757 L0000758 L0000759 L0000760
SRCGROUP TRUCK2   L0000761 L0000762 L0000763 L0000764 L0000765 L0000766
SRCGROUP TRUCK2   L0000767 L0000768 L0000769 L0000770 L0000771 L0000772
SRCGROUP TRUCK2   L0000773 L0000774 L0000775 L0000776 L0000777 L0000778
SRCGROUP TRUCK2   L0000779 L0000780 L0000781 L0000782 L0000783 L0000784
SRCGROUP TRUCK2   L0000785 L0000786 L0000787 L0000788 L0000789 L0000790
SRCGROUP TRUCK2   L0000791 L0000792 L0000793 L0000794 L0000795 L0000796
SRCGROUP TRUCK2   L0000797 L0000798 L0000799 L0000800 L0000801 L0000802
SRCGROUP TRUCK2   L0000803 L0000804 L0000805 L0000806 L0000807 L0000808
SRCGROUP TRUCK2   L0000809 L0000810 L0000811 L0000812 L0000813 L0000814
SRCGROUP TRUCK2   L0000815 L0000816 L0000817 L0000818 L0000819 L0000820
SRCGROUP TRUCK2   L0000821 L0000822 L0000823 L0000824 L0000825 L0000826
SRCGROUP TRUCK2   L0000827 L0000828 L0000829 L0000830 L0000831 L0000832
SRCGROUP TRUCK2   L0000833 L0000834 L0000835 L0000836 L0000837 L0000838
SRCGROUP TRUCK2   L0000839 L0000840 L0000841 L0000842 L0000843 L0000844
SRCGROUP TRUCK2   L0000845 L0000846 L0000847 L0000848 L0000849 L0000850
SRCGROUP TRUCK2   L0000851 L0000852 L0000853 L0000854 L0000855 L0000856
SRCGROUP TRUCK2   L0000857 L0000858 L0000859 L0000860 L0000861 L0000862
SRCGROUP TRUCK2   L0000863 L0000864 L0000865 L0000866 L0000867 L0000868
SRCGROUP TRUCK2   L0000869 L0000870 L0000871 L0000872 L0000873 L0000874
SRCGROUP TRUCK2   L0000875 L0000876 L0000877 L0000878 L0000879 L0000880
SRCGROUP TRUCK2   L0000881 L0000882 L0000883 L0000884 L0000885 L0000886
SRCGROUP TRUCK2   L0000887 L0000888 L0000889 L0000890 L0000891 L0000892
SRCGROUP TRUCK2   L0000893 L0000894 L0000895 L0000896 L0000897 L0000898
SRCGROUP TRUCK2   L0000899 L0000900
SRCGROUP TRUCK3   L0000901 L0000902 L0000903 L0000904 L0000905 L0000906
SRCGROUP TRUCK3   L0000907 L0000908 L0000909 L0000910 L0000911 L0000912
SRCGROUP TRUCK3   L0000913 L0000914 L0000915 L0000916 L0000917 L0000918
SRCGROUP TRUCK3   L0000919 L0000920 L0000921 L0000922 L0000923 L0000924
SRCGROUP TRUCK3   L0000925 L0000926 L0000927 L0000928 L0000929 L0000930
SRCGROUP TRUCK3   L0000931 L0000932 L0000933 L0000934 L0000935 L0000936
SRCGROUP TRUCK3   L0000937 L0000938 L0000939 L0000940 L0000941 L0000942
SRCGROUP TRUCK3   L0000943 L0000944 L0000945 L0000946 L0000947 L0000948
SRCGROUP TRUCK3   L0000949 L0000950 L0000951 L0000952 L0000953 L0000954
SRCGROUP TRUCK3   L0000955 L0000956 L0000957 L0000958 L0000959 L0000960
SRCGROUP TRUCK3   L0000961 L0000962 L0000963 L0000964 L0000965 L0000966
SRCGROUP TRUCK3   L0000967 L0000968 L0000969 L0000970 L0000971 L0000972
SRCGROUP TRUCK3   L0000973 L0000974 L0000975 L0000976 L0000977 L0000978
SRCGROUP TRUCK3   L0000979 L0000980 L0000981 L0000982 L0000983 L0000984
SRCGROUP TRUCK3   L0000985 L0000986 L0000987 L0000988 L0000989 L0000990
SRCGROUP TRUCK3   L0000991 L0000992 L0000993 L0000994 L0000995 L0000996
SRCGROUP TRUCK3   L0000997 L0000998 L0000999 L0001000 L0001001 L0001002
SRCGROUP TRUCK3   L0001003 L0001004 L0001005 L0001006 L0001007 L0001008
SRCGROUP TRUCK3   L0001009 L0001010 L0001011 L0001012 L0001013 L0001014
SRCGROUP TRUCK3   L0001015 L0001016 L0001017 L0001018 L0001019 L0001020
SRCGROUP TRUCK3   L0001021 L0001022 L0001023 L0001024 L0001025 L0001026
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   SRCGROUP TRUCK3   L0001027 L0001028 L0001029 L0001030 L0001031 L0001032
   SRCGROUP TRUCK3   L0001033 L0001034 L0001035 L0001036 L0001037 L0001038
   SRCGROUP TRUCK3   L0001039 L0001040 L0001041 L0001042 L0001043 L0001044
   SRCGROUP TRUCK3   L0001045 L0001046 L0001047 L0001048 L0001049 L0001050
   SRCGROUP TRUCK3   L0001051 L0001052 L0001053 L0001054 L0001055 L0001056
   SRCGROUP TRUCK3   L0001057 L0001058 L0001059 L0001060 L0001061 L0001062
   SRCGROUP TRUCK3   L0001063 L0001064 L0001065 L0001066 L0001067 L0001068
   SRCGROUP TRUCK3   L0001069 L0001070 L0001071 L0001072
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED LennwoodOP.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "..\..\Metdata\KDAG_723815_23161
(3)\KDAG_723815_23161\KDAG_2015_2016_2018-2020_ADJU.SFC"
   PROFFILE "..\..\Metdata\KDAG_723815_23161
(3)\KDAG_723815_23161\KDAG_2015_2016_2018-2020_ADJU.PFL"
   SURFDATA 23161 2015 DAGGETT/FAA_AIRPORT
   UAIRDATA 3120 2015
   PROFBASE 584.3 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST LENNWOODOP.AD\01H1GALL.PLT 31
   PLOTFILE 1 LOADING1 1ST LENNWOODOP.AD\01H1G001.PLT 32
   PLOTFILE 1 LOADING2 1ST LENNWOODOP.AD\01H1G002.PLT 33
   PLOTFILE 1 LOADING3 1ST LENNWOODOP.AD\01H1G003.PLT 34
   PLOTFILE 1 LOADING4 1ST LENNWOODOP.AD\01H1G004.PLT 35
   PLOTFILE 1 LOADING5 1ST LENNWOODOP.AD\01H1G005.PLT 36
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   PLOTFILE 1 LOADING6 1ST LENNWOODOP.AD\01H1G006.PLT 37
   PLOTFILE 1 ONSITE 1ST LENNWOODOP.AD\01H1G007.PLT 38
   PLOTFILE 1 SLINE1 1ST LENNWOODOP.AD\01H1G008.PLT 39
   PLOTFILE 1 TRUCK1 1ST LENNWOODOP.AD\01H1G009.PLT 40
   PLOTFILE 1 TRUCK2 1ST LENNWOODOP.AD\01H1G010.PLT 41
   PLOTFILE 1 TRUCK3 1ST LENNWOODOP.AD\01H1G011.PLT 42
   PLOTFILE PERIOD ALL LENNWOODOP.AD\PE00GALL.PLT 43
   PLOTFILE PERIOD LOADING1 LENNWOODOP.AD\PE00G001.PLT 44
   PLOTFILE PERIOD LOADING2 LENNWOODOP.AD\PE00G002.PLT 45
   PLOTFILE PERIOD LOADING3 LENNWOODOP.AD\PE00G003.PLT 46
   PLOTFILE PERIOD LOADING4 LENNWOODOP.AD\PE00G004.PLT 47
   PLOTFILE PERIOD LOADING5 LENNWOODOP.AD\PE00G005.PLT 48
   PLOTFILE PERIOD LOADING6 LENNWOODOP.AD\PE00G006.PLT 49
   PLOTFILE PERIOD ONSITE LENNWOODOP.AD\PE00G007.PLT 50
   PLOTFILE PERIOD SLINE1 LENNWOODOP.AD\PE00G008.PLT 51
   PLOTFILE PERIOD TRUCK1 LENNWOODOP.AD\PE00G009.PLT 52
   PLOTFILE PERIOD TRUCK2 LENNWOODOP.AD\PE00G010.PLT 53
   PLOTFILE PERIOD TRUCK3 LENNWOODOP.AD\PE00G011.PLT 54
   SUMMFILE LennwoodOP.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    3130       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    3130       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

***   MODEL SETUP OPTIONS SUMMARY
***
- - - -

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 584.30 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 5.9 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: LennwoodOP.err

**File for Summary of Results: LennwoodOP.sum

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0000149	0	0.37037E-01	489311.6	3860870.9	672.8	4.00	3.72				

```
3.72     NO                    NO
 L0000150         0   0.37037E-01  489319.6 3860870.9   673.4     4.00     3.72
3.72     NO                    NO
 L0000151         0   0.37037E-01  489327.6 3860870.9   674.0     4.00     3.72
3.72     NO                    NO
 L0000152         0   0.37037E-01  489335.6 3860870.9   674.6     4.00     3.72
3.72     NO                    NO
 L0000153         0   0.37037E-01  489343.6 3860870.9   675.2     4.00     3.72
3.72     NO                    NO
 L0000154         0   0.37037E-01  489351.6 3860870.9   675.8     4.00     3.72
3.72     NO                    NO
 L0000155         0   0.37037E-01  489359.6 3860870.9   676.1     4.00     3.72
3.72     NO                    NO
 L0000156         0   0.37037E-01  489367.6 3860870.9   676.5     4.00     3.72
3.72     NO                    NO
 L0000157         0   0.37037E-01  489375.6 3860870.9   676.8     4.00     3.72
3.72     NO                    NO
 L0000158         0   0.37037E-01  489383.6 3860870.9   676.7     4.00     3.72
3.72     NO                    NO
 L0000159         0   0.37037E-01  489391.6 3860870.9   676.5     4.00     3.72
3.72     NO                    NO
 L0000160         0   0.37037E-01  489399.6 3860870.9   676.2     4.00     3.72
3.72     NO                    NO
 L0000161         0   0.37037E-01  489407.6 3860870.9   675.9     4.00     3.72
3.72     NO                    NO
 L0000162         0   0.37037E-01  489415.6 3860870.9   675.5     4.00     3.72
3.72     NO                    NO
 L0000163         0   0.37037E-01  489423.6 3860870.9   675.0     4.00     3.72
3.72     NO                    NO
 L0000164         0   0.37037E-01  489431.6 3860870.9   674.6     4.00     3.72
3.72     NO                    NO
 L0000165         0   0.37037E-01  489439.6 3860870.9   674.3     4.00     3.72
3.72     NO                    NO
 L0000166         0   0.37037E-01  489447.6 3860870.9   673.9     4.00     3.72
3.72     NO                    NO
 L0000167         0   0.37037E-01  489455.6 3860870.9   673.6     4.00     3.72
3.72     NO                    NO
 L0000168         0   0.37037E-01  489463.6 3860870.9   673.4     4.00     3.72
3.72     NO                    NO
 L0000169         0   0.37037E-01  489471.6 3860870.9   673.3     4.00     3.72
3.72     NO                    NO
 L0000170         0   0.37037E-01  489479.6 3860870.9   673.2     4.00     3.72
3.72     NO                    NO
 L0000171         0   0.37037E-01  489487.6 3860870.9   673.0     4.00     3.72
3.72     NO                    NO
 L0000172         0   0.37037E-01  489495.6 3860870.9   672.8     4.00     3.72
3.72     NO                    NO
 L0000173         0   0.37037E-01  489503.6 3860870.9   672.6     4.00     3.72
3.72     NO                    NO
 L0000174         0   0.37037E-01  489511.6 3860870.9   672.4     4.00     3.72
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0000189	0	0.35714E-01	489412.2	3860710.5	677.2	4.00	3.72			

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3.72     NO                    NO
 L0000190         0   0.35714E-01  489420.2 3860710.5   677.5     4.00     3.72
3.72     NO                    NO
 L0000191         0   0.35714E-01  489428.2 3860710.6   677.9     4.00     3.72
3.72     NO                    NO
 L0000192         0   0.35714E-01  489436.2 3860710.6   678.1     4.00     3.72
3.72     NO                    NO
 L0000193         0   0.35714E-01  489444.2 3860710.7   678.4     4.00     3.72
3.72     NO                    NO
 L0000194         0   0.35714E-01  489452.2 3860710.8   678.6     4.00     3.72
3.72     NO                    NO
 L0000195         0   0.35714E-01  489460.2 3860710.8   678.9     4.00     3.72
3.72     NO                    NO
 L0000196         0   0.35714E-01  489468.2 3860710.9   679.3     4.00     3.72
3.72     NO                    NO
 L0000197         0   0.35714E-01  489476.2 3860710.9   679.6     4.00     3.72
3.72     NO                    NO
 L0000198         0   0.35714E-01  489484.2 3860711.0   679.9     4.00     3.72
3.72     NO                    NO
 L0000199         0   0.35714E-01  489492.2 3860711.0   680.2     4.00     3.72
3.72     NO                    NO
 L0000200         0   0.35714E-01  489500.2 3860711.1   680.6     4.00     3.72
3.72     NO                    NO
 L0000201         0   0.35714E-01  489508.2 3860711.2   680.8     4.00     3.72
3.72     NO                    NO
 L0000202         0   0.35714E-01  489516.2 3860711.2   680.8     4.00     3.72
3.72     NO                    NO
 L0000203         0   0.35714E-01  489524.2 3860711.3   680.9     4.00     3.72
3.72     NO                    NO
 L0000204         0   0.35714E-01  489308.1 3860622.2   672.9     4.00     3.72
3.72     NO                    NO
 L0000205         0   0.35714E-01  489316.1 3860622.2   672.9     4.00     3.72
3.72     NO                    NO
 L0000206         0   0.35714E-01  489324.1 3860622.2   672.9     4.00     3.72
3.72     NO                    NO
 L0000207         0   0.35714E-01  489332.1 3860622.2   673.0     4.00     3.72
3.72     NO                    NO
 L0000208         0   0.35714E-01  489340.1 3860622.2   673.0     4.00     3.72
3.72     NO                    NO
 L0000209         0   0.35714E-01  489348.1 3860622.2   673.0     4.00     3.72
3.72     NO                    NO
 L0000210         0   0.35714E-01  489356.1 3860622.2   673.1     4.00     3.72
3.72     NO                    NO
 L0000211         0   0.35714E-01  489364.1 3860622.2   673.3     4.00     3.72
3.72     NO                    NO
 L0000212         0   0.35714E-01  489372.1 3860622.2   673.4     4.00     3.72
3.72     NO                    NO
 L0000213         0   0.35714E-01  489380.1 3860622.2   673.6     4.00     3.72
3.72     NO                    NO
 L0000214         0   0.35714E-01  489388.1 3860622.2   673.9     4.00     3.72
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3.72     NO                     NO
 L0000215         0   0.35714E-01  489396.1 3860622.2   674.1     4.00     3.72
3.72     NO                     NO
 L0000216         0   0.35714E-01  489404.1 3860622.2   674.3     4.00     3.72
3.72     NO                     NO
 L0000217         0   0.35714E-01  489412.1 3860622.2   674.3     4.00     3.72
3.72     NO                     NO
 L0000218         0   0.35714E-01  489420.1 3860622.2   674.2     4.00     3.72
3.72     NO                     NO
 L0000219         0   0.35714E-01  489428.1 3860622.2   674.1     4.00     3.72
3.72     NO                     NO
 L0000220         0   0.35714E-01  489436.1 3860622.2   674.3     4.00     3.72
3.72     NO                     NO
 L0000221         0   0.35714E-01  489444.1 3860622.2   674.4     4.00     3.72
3.72     NO                     NO
 L0000222         0   0.35714E-01  489452.1 3860622.2   674.5     4.00     3.72
3.72     NO                     NO
 L0000223         0   0.35714E-01  489460.1 3860622.2   674.7     4.00     3.72
3.72     NO                     NO
 L0000224         0   0.35714E-01  489468.1 3860622.2   674.9     4.00     3.72
3.72     NO                     NO
 L0000225         0   0.35714E-01  489476.1 3860622.2   675.1     4.00     3.72
3.72     NO                     NO
 L0000226         0   0.35714E-01  489484.1 3860622.2   675.2     4.00     3.72
3.72     NO                     NO
 L0000227         0   0.35714E-01  489492.1 3860622.2   675.4     4.00     3.72
3.72     NO                     NO
 L0000228         0   0.35714E-01  489500.1 3860622.2   675.5     4.00     3.72
3.72     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000229         0   0.35714E-01  489508.1 3860622.2   675.6     4.00     3.72
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3.72     NO                    NO
 L0000230         0   0.35714E-01  489516.1 3860622.2   675.8     4.00     3.72
3.72     NO                    NO
 L0000231         0   0.35714E-01  489524.1 3860622.2   675.9     4.00     3.72
3.72     NO                    NO
 L0000232         0   0.35714E-01  489308.1 3860464.0   673.9     4.00     3.72
3.72     NO                    NO
 L0000233         0   0.35714E-01  489316.1 3860464.0   673.9     4.00     3.72
3.72     NO                    NO
 L0000234         0   0.35714E-01  489324.1 3860464.0   674.0     4.00     3.72
3.72     NO                    NO
 L0000235         0   0.35714E-01  489332.1 3860464.0   674.1     4.00     3.72
3.72     NO                    NO
 L0000236         0   0.35714E-01  489340.1 3860464.0   674.1     4.00     3.72
3.72     NO                    NO
 L0000237         0   0.35714E-01  489348.1 3860464.0   674.2     4.00     3.72
3.72     NO                    NO
 L0000238         0   0.35714E-01  489356.1 3860464.0   674.2     4.00     3.72
3.72     NO                    NO
 L0000239         0   0.35714E-01  489364.1 3860464.0   674.2     4.00     3.72
3.72     NO                    NO
 L0000240         0   0.35714E-01  489372.1 3860464.0   674.2     4.00     3.72
3.72     NO                    NO
 L0000241         0   0.35714E-01  489380.1 3860464.0   674.2     4.00     3.72
3.72     NO                    NO
 L0000242         0   0.35714E-01  489388.1 3860464.0   674.1     4.00     3.72
3.72     NO                    NO
 L0000243         0   0.35714E-01  489396.1 3860464.0   674.1     4.00     3.72
3.72     NO                    NO
 L0000244         0   0.35714E-01  489404.1 3860464.0   674.0     4.00     3.72
3.72     NO                    NO
 L0000245         0   0.35714E-01  489412.1 3860464.0   674.0     4.00     3.72
3.72     NO                    NO
 L0000246         0   0.35714E-01  489420.1 3860464.0   674.0     4.00     3.72
3.72     NO                    NO
 L0000247         0   0.35714E-01  489428.1 3860464.0   674.0     4.00     3.72
3.72     NO                    NO
 L0000248         0   0.35714E-01  489436.1 3860464.0   674.0     4.00     3.72
3.72     NO                    NO
 L0000249         0   0.35714E-01  489444.1 3860464.0   674.1     4.00     3.72
3.72     NO                    NO
 L0000250         0   0.35714E-01  489452.1 3860464.0   674.1     4.00     3.72
3.72     NO                    NO
 L0000251         0   0.35714E-01  489460.1 3860464.0   674.2     4.00     3.72
3.72     NO                    NO
 L0000252         0   0.35714E-01  489468.1 3860464.0   674.4     4.00     3.72
3.72     NO                    NO
 L0000253         0   0.35714E-01  489476.1 3860464.0   674.5     4.00     3.72
3.72     NO                    NO
 L0000254         0   0.35714E-01  489484.1 3860464.0   674.8     4.00     3.72
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3.72     NO                     NO
 L0000255         0   0.35714E-01  489492.1 3860464.0   675.1     4.00     3.72
3.72     NO                     NO
 L0000256         0   0.35714E-01  489500.1 3860464.0   675.4     4.00     3.72
3.72     NO                     NO
 L0000257         0   0.35714E-01  489508.1 3860464.0   675.7     4.00     3.72
3.72     NO                     NO
 L0000258         0   0.35714E-01  489516.1 3860464.0   675.8     4.00     3.72
3.72     NO                     NO
 L0000259         0   0.35714E-01  489524.1 3860464.0   676.0     4.00     3.72
3.72     NO                     NO
 L0000260         0   0.35714E-01  489308.1 3860374.3   675.0     4.00     3.72
3.72     NO                     NO
 L0000261         0   0.35714E-01  489316.1 3860374.3   675.1     4.00     3.72
3.72     NO                     NO
 L0000262         0   0.35714E-01  489324.1 3860374.3   675.1     4.00     3.72
3.72     NO                     NO
 L0000263         0   0.35714E-01  489332.1 3860374.4   675.1     4.00     3.72
3.72     NO                     NO
 L0000264         0   0.35714E-01  489340.1 3860374.4   675.2     4.00     3.72
3.72     NO                     NO
 L0000265         0   0.35714E-01  489348.1 3860374.4   675.3     4.00     3.72
3.72     NO                     NO
 L0000266         0   0.35714E-01  489356.1 3860374.4   675.2     4.00     3.72
3.72     NO                     NO
 L0000267         0   0.35714E-01  489364.1 3860374.5   675.2     4.00     3.72
3.72     NO                     NO
 L0000268         0   0.35714E-01  489372.1 3860374.5   675.1     4.00     3.72
3.72     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000269         0   0.35714E-01  489380.1 3860374.5   675.0     4.00     3.72
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3.72     NO                    NO
 L0000270         0   0.35714E-01  489388.1 3860374.5   675.0     4.00     3.72
3.72     NO                    NO
 L0000271         0   0.35714E-01  489396.1 3860374.6   674.9     4.00     3.72
3.72     NO                    NO
 L0000272         0   0.35714E-01  489404.1 3860374.6   674.8     4.00     3.72
3.72     NO                    NO
 L0000273         0   0.35714E-01  489412.1 3860374.6   674.8     4.00     3.72
3.72     NO                    NO
 L0000274         0   0.35714E-01  489420.1 3860374.6   674.7     4.00     3.72
3.72     NO                    NO
 L0000275         0   0.35714E-01  489428.1 3860374.7   674.7     4.00     3.72
3.72     NO                    NO
 L0000276         0   0.35714E-01  489436.1 3860374.7   674.7     4.00     3.72
3.72     NO                    NO
 L0000277         0   0.35714E-01  489444.1 3860374.7   674.6     4.00     3.72
3.72     NO                    NO
 L0000278         0   0.35714E-01  489452.1 3860374.7   674.6     4.00     3.72
3.72     NO                    NO
 L0000279         0   0.35714E-01  489460.1 3860374.8   674.5     4.00     3.72
3.72     NO                    NO
 L0000280         0   0.35714E-01  489468.1 3860374.8   674.5     4.00     3.72
3.72     NO                    NO
 L0000281         0   0.35714E-01  489476.1 3860374.8   674.5     4.00     3.72
3.72     NO                    NO
 L0000282         0   0.35714E-01  489484.1 3860374.8   674.5     4.00     3.72
3.72     NO                    NO
 L0000283         0   0.35714E-01  489492.1 3860374.9   674.5     4.00     3.72
3.72     NO                    NO
 L0000284         0   0.35714E-01  489500.1 3860374.9   674.6     4.00     3.72
3.72     NO                    NO
 L0000285         0   0.35714E-01  489508.1 3860374.9   674.6     4.00     3.72
3.72     NO                    NO
 L0000286         0   0.35714E-01  489516.1 3860374.9   674.7     4.00     3.72
3.72     NO                    NO
 L0000287         0   0.35714E-01  489524.1 3860375.0   674.8     4.00     3.72
3.72     NO                    NO
 L0000288         0   0.34483E-01  489305.9 3860214.6   676.9     4.00     3.72
3.72     NO                    NO
 L0000289         0   0.34483E-01  489313.9 3860214.6   677.1     4.00     3.72
3.72     NO                    NO
 L0000290         0   0.34483E-01  489321.9 3860214.5   677.2     4.00     3.72
3.72     NO                    NO
 L0000291         0   0.34483E-01  489329.9 3860214.5   677.4     4.00     3.72
3.72     NO                    NO
 L0000292         0   0.34483E-01  489337.9 3860214.4   677.6     4.00     3.72
3.72     NO                    NO
 L0000293         0   0.34483E-01  489345.9 3860214.4   677.8     4.00     3.72
3.72     NO                    NO
 L0000294         0   0.34483E-01  489353.9 3860214.3   678.1     4.00     3.72
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0000309	0	0.34483E-01	489473.9	3860213.6	682.3	4.00	3.72			

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3.72     NO                    NO
 L0000310         0   0.34483E-01  489481.9 3860213.5   682.4     4.00     3.72
3.72     NO                    NO
 L0000311         0   0.34483E-01  489489.9 3860213.5   682.5     4.00     3.72
3.72     NO                    NO
 L0000312         0   0.34483E-01  489497.9 3860213.4   682.6     4.00     3.72
3.72     NO                    NO
 L0000313         0   0.34483E-01  489505.9 3860213.4   682.7     4.00     3.72
3.72     NO                    NO
 L0000314         0   0.34483E-01  489513.9 3860213.3   682.7     4.00     3.72
3.72     NO                    NO
 L0000315         0   0.34483E-01  489521.9 3860213.3   682.8     4.00     3.72
3.72     NO                    NO
 L0000316         0   0.34483E-01  489529.9 3860213.2   682.8     4.00     3.72
3.72     NO                    NO
 L0000317         0   0.56497E-02  489227.7 3860152.4   677.4     4.00     3.72
3.72     NO                    NO
 L0000318         0   0.56497E-02  489235.7 3860152.4   677.5     4.00     3.72
3.72     NO                    NO
 L0000319         0   0.56497E-02  489243.7 3860152.4   677.5     4.00     3.72
3.72     NO                    NO
 L0000320         0   0.56497E-02  489251.7 3860152.4   677.6     4.00     3.72
3.72     NO                    NO
 L0000321         0   0.56497E-02  489259.7 3860152.4   677.8     4.00     3.72
3.72     NO                    NO
 L0000322         0   0.56497E-02  489267.7 3860152.4   677.9     4.00     3.72
3.72     NO                    NO
 L0000323         0   0.56497E-02  489275.7 3860152.4   678.0     4.00     3.72
3.72     NO                    NO
 L0000324         0   0.56497E-02  489283.7 3860152.4   678.2     4.00     3.72
3.72     NO                    NO
 L0000325         0   0.56497E-02  489290.0 3860154.6   678.2     4.00     3.72
3.72     NO                    NO
 L0000326         0   0.56497E-02  489291.8 3860162.4   677.9     4.00     3.72
3.72     NO                    NO
 L0000327         0   0.56497E-02  489293.7 3860170.2   677.6     4.00     3.72
3.72     NO                    NO
 L0000328         0   0.56497E-02  489295.6 3860178.0   677.4     4.00     3.72
3.72     NO                    NO
 L0000329         0   0.56497E-02  489297.4 3860185.8   677.1     4.00     3.72
3.72     NO                    NO
 L0000330         0   0.56497E-02  489303.2 3860188.6   677.1     4.00     3.72
3.72     NO                    NO
 L0000331         0   0.56497E-02  489311.2 3860188.6   677.3     4.00     3.72
3.72     NO                    NO
 L0000332         0   0.56497E-02  489319.2 3860188.6   677.4     4.00     3.72
3.72     NO                    NO
 L0000333         0   0.56497E-02  489327.2 3860188.6   677.6     4.00     3.72
3.72     NO                    NO
 L0000334         0   0.56497E-02  489335.2 3860188.6   677.9     4.00     3.72
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3.72     NO                     NO
 L0000335         0   0.56497E-02  489343.2 3860188.6   678.2     4.00     3.72
3.72     NO                     NO
 L0000336         0   0.56497E-02  489351.2 3860188.6   678.5     4.00     3.72
3.72     NO                     NO
 L0000337         0   0.56497E-02  489359.2 3860188.6   678.9     4.00     3.72
3.72     NO                     NO
 L0000338         0   0.56497E-02  489367.2 3860188.6   679.3     4.00     3.72
3.72     NO                     NO
 L0000339         0   0.56497E-02  489375.2 3860188.6   679.7     4.00     3.72
3.72     NO                     NO
 L0000340         0   0.56497E-02  489383.2 3860188.6   680.0     4.00     3.72
3.72     NO                     NO
 L0000341         0   0.56497E-02  489391.2 3860188.6   680.3     4.00     3.72
3.72     NO                     NO
 L0000342         0   0.56497E-02  489399.2 3860188.6   680.6     4.00     3.72
3.72     NO                     NO
 L0000343         0   0.56497E-02  489407.2 3860188.6   681.0     4.00     3.72
3.72     NO                     NO
 L0000344         0   0.56497E-02  489415.2 3860188.6   681.5     4.00     3.72
3.72     NO                     NO
 L0000345         0   0.56497E-02  489423.2 3860188.6   682.0     4.00     3.72
3.72     NO                     NO
 L0000346         0   0.56497E-02  489431.2 3860188.6   682.4     4.00     3.72
3.72     NO                     NO
 L0000347         0   0.56497E-02  489439.2 3860188.6   682.9     4.00     3.72
3.72     NO                     NO
 L0000348         0   0.56497E-02  489447.2 3860188.6   683.3     4.00     3.72
3.72     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000349         0   0.56497E-02  489455.2 3860188.6   683.8     4.00     3.72
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3.72     NO                    NO
 L0000350         0   0.56497E-02  489463.2 3860188.6   684.3     4.00     3.72
3.72     NO                    NO
 L0000351         0   0.56497E-02  489471.2 3860188.6   684.8     4.00     3.72
3.72     NO                    NO
 L0000352         0   0.56497E-02  489479.2 3860188.6   685.3     4.00     3.72
3.72     NO                    NO
 L0000353         0   0.56497E-02  489487.2 3860188.6   685.4     4.00     3.72
3.72     NO                    NO
 L0000354         0   0.56497E-02  489495.2 3860188.6   685.5     4.00     3.72
3.72     NO                    NO
 L0000355         0   0.56497E-02  489503.2 3860188.6   685.7     4.00     3.72
3.72     NO                    NO
 L0000356         0   0.56497E-02  489511.2 3860188.6   685.9     4.00     3.72
3.72     NO                    NO
 L0000357         0   0.56497E-02  489519.2 3860188.6   686.1     4.00     3.72
3.72     NO                    NO
 L0000358         0   0.56497E-02  489527.2 3860188.6   686.3     4.00     3.72
3.72     NO                    NO
 L0000359         0   0.56497E-02  489535.2 3860188.6   686.3     4.00     3.72
3.72     NO                    NO
 L0000360         0   0.56497E-02  489543.2 3860188.6   686.2     4.00     3.72
3.72     NO                    NO
 L0000361         0   0.56497E-02  489551.2 3860188.6   686.2     4.00     3.72
3.72     NO                    NO
 L0000362         0   0.56497E-02  489557.6 3860193.1   685.5     4.00     3.72
3.72     NO                    NO
 L0000363         0   0.56497E-02  489563.7 3860198.2   684.7     4.00     3.72
3.72     NO                    NO
 L0000364         0   0.56497E-02  489569.9 3860203.3   684.0     4.00     3.72
3.72     NO                    NO
 L0000365         0   0.56497E-02  489572.3 3860210.1   683.1     4.00     3.72
3.72     NO                    NO
 L0000366         0   0.56497E-02  489572.3 3860218.1   682.0     4.00     3.72
3.72     NO                    NO
 L0000367         0   0.56497E-02  489572.2 3860226.1   681.6     4.00     3.72
3.72     NO                    NO
 L0000368         0   0.56497E-02  489572.2 3860234.1   681.3     4.00     3.72
3.72     NO                    NO
 L0000369         0   0.56497E-02  489572.1 3860242.1   681.0     4.00     3.72
3.72     NO                    NO
 L0000370         0   0.56497E-02  489572.0 3860250.1   680.7     4.00     3.72
3.72     NO                    NO
 L0000371         0   0.56497E-02  489572.0 3860258.1   680.2     4.00     3.72
3.72     NO                    NO
 L0000372         0   0.56497E-02  489571.9 3860266.1   679.7     4.00     3.72
3.72     NO                    NO
 L0000373         0   0.56497E-02  489571.9 3860274.1   679.2     4.00     3.72
3.72     NO                    NO
 L0000374         0   0.56497E-02  489571.8 3860282.1   678.7     4.00     3.72
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3.72 NO NO
L0000375 0 0.56497E-02 489571.8 3860290.1 678.2 4.00 3.72
3.72 NO NO
L0000376 0 0.56497E-02 489571.7 3860298.1 677.7 4.00 3.72
3.72 NO NO
L0000377 0 0.56497E-02 489571.7 3860306.1 677.2 4.00 3.72
3.72 NO NO
L0000378 0 0.56497E-02 489571.6 3860314.1 676.8 4.00 3.72
3.72 NO NO
L0000379 0 0.56497E-02 489571.6 3860322.1 676.4 4.00 3.72
3.72 NO NO
L0000380 0 0.56497E-02 489571.5 3860330.1 676.1 4.00 3.72
3.72 NO NO
L0000381 0 0.56497E-02 489571.4 3860338.1 675.8 4.00 3.72
3.72 NO NO
L0000382 0 0.56497E-02 489571.4 3860346.1 675.6 4.00 3.72
3.72 NO NO
L0000383 0 0.56497E-02 489571.3 3860354.1 675.4 4.00 3.72
3.72 NO NO
L0000384 0 0.56497E-02 489571.3 3860362.1 675.3 4.00 3.72
3.72 NO NO
L0000385 0 0.56497E-02 489571.2 3860370.1 675.1 4.00 3.72
3.72 NO NO
L0000386 0 0.56497E-02 489571.2 3860378.1 675.0 4.00 3.72
3.72 NO NO
L0000387 0 0.56497E-02 489571.1 3860386.1 674.9 4.00 3.72
3.72 NO NO
L0000388 0 0.56497E-02 489571.1 3860394.1 674.8 4.00 3.72
3.72 NO NO

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0000389	0	0.56497E-02	489571.0	3860402.1	674.8	4.00	3.72			

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3.72     NO                    NO
 L0000390         0   0.56497E-02  489571.0 3860410.1   674.7     4.00     3.72
3.72     NO                    NO
 L0000391         0   0.56497E-02  489570.9 3860418.1   674.6     4.00     3.72
3.72     NO                    NO
 L0000392         0   0.56497E-02  489570.8 3860426.1   674.6     4.00     3.72
3.72     NO                    NO
 L0000393         0   0.56497E-02  489570.8 3860434.1   674.5     4.00     3.72
3.72     NO                    NO
 L0000394         0   0.56497E-02  489570.7 3860442.1   674.8     4.00     3.72
3.72     NO                    NO
 L0000395         0   0.56497E-02  489570.7 3860450.1   675.1     4.00     3.72
3.72     NO                    NO
 L0000396         0   0.56497E-02  489570.6 3860458.1   675.3     4.00     3.72
3.72     NO                    NO
 L0000397         0   0.56497E-02  489570.6 3860466.1   675.7     4.00     3.72
3.72     NO                    NO
 L0000398         0   0.56497E-02  489570.5 3860474.1   676.8     4.00     3.72
3.72     NO                    NO
 L0000399         0   0.56497E-02  489570.5 3860482.1   677.9     4.00     3.72
3.72     NO                    NO
 L0000400         0   0.56497E-02  489570.4 3860490.1   679.0     4.00     3.72
3.72     NO                    NO
 L0000401         0   0.56497E-02  489570.3 3860498.1   679.7     4.00     3.72
3.72     NO                    NO
 L0000402         0   0.56497E-02  489570.3 3860506.1   679.2     4.00     3.72
3.72     NO                    NO
 L0000403         0   0.56497E-02  489570.2 3860514.1   678.7     4.00     3.72
3.72     NO                    NO
 L0000404         0   0.56497E-02  489570.2 3860522.1   678.2     4.00     3.72
3.72     NO                    NO
 L0000405         0   0.56497E-02  489570.1 3860530.1   677.7     4.00     3.72
3.72     NO                    NO
 L0000406         0   0.56497E-02  489570.1 3860538.1   677.2     4.00     3.72
3.72     NO                    NO
 L0000407         0   0.56497E-02  489570.0 3860546.1   676.7     4.00     3.72
3.72     NO                    NO
 L0000408         0   0.56497E-02  489570.0 3860554.1   676.2     4.00     3.72
3.72     NO                    NO
 L0000409         0   0.56497E-02  489569.9 3860562.1   676.0     4.00     3.72
3.72     NO                    NO
 L0000410         0   0.56497E-02  489569.9 3860570.1   676.0     4.00     3.72
3.72     NO                    NO
 L0000411         0   0.56497E-02  489569.8 3860578.1   676.0     4.00     3.72
3.72     NO                    NO
 L0000412         0   0.56497E-02  489569.7 3860586.1   676.0     4.00     3.72
3.72     NO                    NO
 L0000413         0   0.56497E-02  489569.7 3860594.1   676.3     4.00     3.72
3.72     NO                    NO
 L0000414         0   0.56497E-02  489569.6 3860602.1   676.8     4.00     3.72
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3.72     NO                     NO
 L0000415         0   0.56497E-02  489569.6 3860610.1   677.3     4.00     3.72
3.72     NO                     NO
 L0000416         0   0.56497E-02  489569.5 3860618.1   677.8     4.00     3.72
3.72     NO                     NO
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3.72     NO                     NO
 L0000418         0   0.56497E-02  489569.4 3860634.1   678.6     4.00     3.72
3.72     NO                     NO
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3.72     NO                     NO
 L0000420         0   0.56497E-02  489569.3 3860650.1   679.4     4.00     3.72
3.72     NO                     NO
 L0000421         0   0.56497E-02  489569.3 3860658.1   679.6     4.00     3.72
3.72     NO                     NO
 L0000422         0   0.56497E-02  489569.2 3860666.1   679.8     4.00     3.72
3.72     NO                     NO
 L0000423         0   0.56497E-02  489569.1 3860674.1   680.0     4.00     3.72
3.72     NO                     NO
 L0000424         0   0.56497E-02  489569.1 3860682.1   680.1     4.00     3.72
3.72     NO                     NO
 L0000425         0   0.56497E-02  489569.0 3860690.1   680.0     4.00     3.72
3.72     NO                     NO
 L0000426         0   0.56497E-02  489569.0 3860698.1   679.9     4.00     3.72
3.72     NO                     NO
 L0000427         0   0.56497E-02  489568.9 3860706.1   679.7     4.00     3.72
3.72     NO                     NO
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3.72     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000429         0   0.56497E-02  489568.8 3860722.1   679.4     4.00     3.72
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3.72 NO NO
L0000433 0 0.56497E-02 489568.6 3860754.1 678.5 4.00 3.72
3.72 NO NO
L0000434 0 0.56497E-02 489568.5 3860762.1 678.2 4.00 3.72
3.72 NO NO
L0000435 0 0.56497E-02 489568.5 3860770.1 677.9 4.00 3.72
3.72 NO NO
L0000436 0 0.56497E-02 489568.4 3860778.1 677.3 4.00 3.72
3.72 NO NO
L0000437 0 0.56497E-02 489568.4 3860786.1 676.6 4.00 3.72
3.72 NO NO
L0000438 0 0.56497E-02 489568.3 3860794.1 676.0 4.00 3.72
3.72 NO NO
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3.72 NO NO
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3.72 NO NO
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3.72 NO NO
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3.72 NO NO
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3.72 NO NO
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3.72 NO NO
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3.72 NO NO
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3.72 NO NO
L0000453 0 0.56497E-02 489544.1 3860890.6 670.1 4.00 3.72
3.72 NO NO
L0000454 0 0.56497E-02 489536.1 3860890.6 670.2 4.00 3.72

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0000469	0	0.56497E-02	489416.1	3860890.6	673.0	4.00	3.72			

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3.72     NO                    NO
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3.72     NO                    NO
 L0000472         0   0.56497E-02  489392.1 3860890.6   673.8     4.00     3.72
3.72     NO                    NO
 L0000473         0   0.56497E-02  489384.1 3860890.6   673.9     4.00     3.72
3.72     NO                    NO
 L0000474         0   0.56497E-02  489376.1 3860890.6   673.9     4.00     3.72
3.72     NO                    NO
 L0000475         0   0.56497E-02  489368.1 3860890.6   673.8     4.00     3.72
3.72     NO                    NO
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3.72     NO                    NO
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3.72     NO                    NO
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3.72     NO                    NO
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3.72     NO                    NO
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3.72     NO                    NO
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3.72     NO                    NO
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3.72     NO                    NO
 L0000488         0   0.56497E-02  489269.8 3860906.6   669.6     4.00     3.72
3.72     NO                    NO
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3.72     NO                    NO
 L0000490         0   0.56497E-02  489253.8 3860906.4   669.4     4.00     3.72
3.72     NO                    NO
 L0000491         0   0.56497E-02  489245.8 3860906.3   669.5     4.00     3.72
3.72     NO                    NO
 L0000492         0   0.56497E-02  489237.8 3860906.2   669.8     4.00     3.72
3.72     NO                    NO
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3.72     NO                    NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0000507         0   0.22222E-01  489209.1 3860725.1   672.3     3.40     6.23
3.16     NO                     NO
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3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000509         0   0.22222E-01  489209.3 3860751.9   672.1     3.40     6.23
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000529         0   0.22222E-01  489211.2 3861019.9   669.0     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000549         0   0.27624E-02  489368.8 3861145.5   669.1     3.40     6.23
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0000587         0   0.27624E-02  489878.0 3861140.6   666.9     3.40     6.23
3.16     NO                     NO
 L0000588         0   0.27624E-02  489891.4 3861140.5   666.8     3.40     6.23
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000589         0   0.27624E-02  489904.8 3861140.3   666.8     3.40     6.23
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3.16     NO                    NO
 L0000590         0   0.27624E-02  489918.2 3861140.2   666.7     3.40     6.23
3.16     NO                    NO
 L0000591         0   0.27624E-02  489931.6 3861140.1   666.6     3.40     6.23
3.16     NO                    NO
 L0000592         0   0.27624E-02  489945.0 3861139.9   666.6     3.40     6.23
3.16     NO                    NO
 L0000593         0   0.27624E-02  489958.4 3861139.8   666.5     3.40     6.23
3.16     NO                    NO
 L0000594         0   0.27624E-02  489971.8 3861139.7   666.4     3.40     6.23
3.16     NO                    NO
 L0000595         0   0.27624E-02  489985.2 3861139.5   666.4     3.40     6.23
3.16     NO                    NO
 L0000596         0   0.27624E-02  489998.6 3861139.4   666.3     3.40     6.23
3.16     NO                    NO
 L0000597         0   0.27624E-02  490012.0 3861139.3   666.2     3.40     6.23
3.16     NO                    NO
 L0000598         0   0.27624E-02  490025.4 3861139.2   666.3     3.40     6.23
3.16     NO                    NO
 L0000599         0   0.27624E-02  490038.8 3861139.0   666.3     3.40     6.23
3.16     NO                    NO
 L0000600         0   0.27624E-02  490052.2 3861138.9   666.4     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0000602         0   0.27624E-02  490079.0 3861138.6   666.6     3.40     6.23
3.16     NO                    NO
 L0000603         0   0.27624E-02  490092.4 3861138.5   666.7     3.40     6.23
3.16     NO                    NO
 L0000604         0   0.27624E-02  490105.8 3861138.4   666.7     3.40     6.23
3.16     NO                    NO
 L0000605         0   0.27624E-02  490119.2 3861138.2   666.8     3.40     6.23
3.16     NO                    NO
 L0000606         0   0.27624E-02  490132.6 3861138.1   666.9     3.40     6.23
3.16     NO                    NO
 L0000607         0   0.27624E-02  490146.0 3861138.0   666.9     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0000609         0   0.27624E-02  490172.8 3861137.7   667.1     3.40     6.23
3.16     NO                    NO
 L0000610         0   0.27624E-02  490186.2 3861137.6   667.2     3.40     6.23
3.16     NO                    NO
 L0000611         0   0.27624E-02  490199.6 3861137.5   667.3     3.40     6.23
3.16     NO                    NO
 L0000612         0   0.27624E-02  490213.0 3861137.3   667.3     3.40     6.23
3.16     NO                    NO
 L0000613         0   0.27624E-02  490226.4 3861137.2   667.3     3.40     6.23
3.16     NO                    NO
 L0000614         0   0.27624E-02  490239.8 3861137.1   667.3     3.40     6.23
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3.16     NO                     NO
 L0000615         0   0.27624E-02  490253.2 3861136.9   667.3     3.40     6.23
3.16     NO                     NO
 L0000616         0   0.27624E-02  490266.6 3861136.8   667.4     3.40     6.23
3.16     NO                     NO
 L0000617         0   0.27624E-02  490280.0 3861136.7   667.2     3.40     6.23
3.16     NO                     NO
 L0000618         0   0.27624E-02  490293.4 3861136.6   667.1     3.40     6.23
3.16     NO                     NO
 L0000619         0   0.27624E-02  490306.8 3861136.4   667.1     3.40     6.23
3.16     NO                     NO
 L0000620         0   0.27624E-02  490320.1 3861136.3   667.0     3.40     6.23
3.16     NO                     NO
 L0000621         0   0.27624E-02  490333.5 3861136.2   666.9     3.40     6.23
3.16     NO                     NO
 L0000622         0   0.27624E-02  490346.9 3861136.0   666.9     3.40     6.23
3.16     NO                     NO
 L0000623         0   0.27624E-02  490360.3 3861135.9   666.9     3.40     6.23
3.16     NO                     NO
 L0000624         0   0.27624E-02  490373.7 3861135.8   666.9     3.40     6.23
3.16     NO                     NO
 L0000625         0   0.27624E-02  490387.1 3861135.6   666.9     3.40     6.23
3.16     NO                     NO
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3.16     NO                     NO
 L0000627         0   0.27624E-02  490413.9 3861135.4   666.9     3.40     6.23
3.16     NO                     NO
 L0000628         0   0.27624E-02  490427.3 3861135.3   666.8     3.40     6.23
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000629         0   0.27624E-02  490440.7 3861135.1   666.8     3.40     6.23
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3.16     NO                    NO
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3.16     NO                    NO
 L0000631         0   0.27624E-02  490467.5 3861134.9   666.8     3.40     6.23
3.16     NO                    NO
 L0000632         0   0.27624E-02  490480.9 3861134.7   666.8     3.40     6.23
3.16     NO                    NO
 L0000633         0   0.27624E-02  490494.3 3861134.6   666.8     3.40     6.23
3.16     NO                    NO
 L0000634         0   0.27624E-02  490507.7 3861134.5   666.8     3.40     6.23
3.16     NO                    NO
 L0000635         0   0.27624E-02  490521.1 3861134.3   666.9     3.40     6.23
3.16     NO                    NO
 L0000636         0   0.27624E-02  490534.5 3861134.2   666.8     3.40     6.23
3.16     NO                    NO
 L0000637         0   0.27624E-02  490547.9 3861134.1   666.7     3.40     6.23
3.16     NO                    NO
 L0000638         0   0.27624E-02  490561.3 3861134.0   666.6     3.40     6.23
3.16     NO                    NO
 L0000639         0   0.27624E-02  490574.7 3861133.8   666.5     3.40     6.23
3.16     NO                    NO
 L0000640         0   0.27624E-02  490588.1 3861133.7   666.5     3.40     6.23
3.16     NO                    NO
 L0000641         0   0.27624E-02  490601.5 3861133.6   666.3     3.40     6.23
3.16     NO                    NO
 L0000642         0   0.27624E-02  490614.9 3861133.4   666.1     3.40     6.23
3.16     NO                    NO
 L0000643         0   0.27624E-02  490628.3 3861133.3   666.0     3.40     6.23
3.16     NO                    NO
 L0000644         0   0.27624E-02  490641.7 3861133.2   665.9     3.40     6.23
3.16     NO                    NO
 L0000645         0   0.27624E-02  490655.1 3861133.0   665.8     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0000647         0   0.27624E-02  490681.9 3861132.8   665.7     3.40     6.23
3.16     NO                    NO
 L0000648         0   0.27624E-02  490695.3 3861132.7   665.6     3.40     6.23
3.16     NO                    NO
 L0000649         0   0.27624E-02  490708.7 3861132.5   665.6     3.40     6.23
3.16     NO                    NO
 L0000650         0   0.27624E-02  490722.1 3861132.4   665.6     3.40     6.23
3.16     NO                    NO
 L0000651         0   0.27624E-02  490735.5 3861132.3   665.5     3.40     6.23
3.16     NO                    NO
 L0000652         0   0.27624E-02  490748.9 3861132.1   665.4     3.40     6.23
3.16     NO                    NO
 L0000653         0   0.27624E-02  490762.3 3861132.0   665.4     3.40     6.23
3.16     NO                    NO
 L0000654         0   0.27624E-02  490775.7 3861131.9   665.4     3.40     6.23
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0000669	0	0.27624E-02	490976.7	3861129.9	664.7	3.40	6.23			

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3.16     NO                    NO
 L0000670         0   0.27624E-02  490990.1 3861129.8   664.5     3.40     6.23
3.16     NO                    NO
 L0000671         0   0.27624E-02  491003.5 3861129.7   664.4     3.40     6.23
3.16     NO                    NO
 L0000672         0   0.27624E-02  491016.9 3861129.5   664.4     3.40     6.23
3.16     NO                    NO
 L0000673         0   0.27624E-02  491030.3 3861129.4   664.4     3.40     6.23
3.16     NO                    NO
 L0000674         0   0.27624E-02  491043.7 3861129.3   664.4     3.40     6.23
3.16     NO                    NO
 L0000675         0   0.27624E-02  491057.1 3861129.1   664.4     3.40     6.23
3.16     NO                    NO
 L0000676         0   0.27624E-02  491070.5 3861129.0   664.4     3.40     6.23
3.16     NO                    NO
 L0000677         0   0.27624E-02  491083.9 3861128.9   664.4     3.40     6.23
3.16     NO                    NO
 L0000678         0   0.27624E-02  491097.3 3861128.7   664.4     3.40     6.23
3.16     NO                    NO
 L0000679         0   0.27624E-02  491110.7 3861128.6   664.4     3.40     6.23
3.16     NO                    NO
 L0000680         0   0.27624E-02  491124.1 3861128.5   664.4     3.40     6.23
3.16     NO                    NO
 L0000681         0   0.27624E-02  491137.5 3861128.4   664.4     3.40     6.23
3.16     NO                    NO
 L0000682         0   0.27624E-02  491150.9 3861128.2   664.4     3.40     6.23
3.16     NO                    NO
 L0000683         0   0.27624E-02  491164.3 3861128.1   664.4     3.40     6.23
3.16     NO                    NO
 L0000684         0   0.27624E-02  491177.7 3861128.0   664.3     3.40     6.23
3.16     NO                    NO
 L0000685         0   0.27624E-02  491191.1 3861127.8   664.2     3.40     6.23
3.16     NO                    NO
 L0000686         0   0.27624E-02  491204.5 3861127.7   664.2     3.40     6.23
3.16     NO                    NO
 L0000687         0   0.27624E-02  491217.9 3861127.6   664.2     3.40     6.23
3.16     NO                    NO
 L0000688         0   0.27624E-02  491231.3 3861127.4   664.2     3.40     6.23
3.16     NO                    NO
 L0000689         0   0.27624E-02  491244.7 3861127.3   664.1     3.40     6.23
3.16     NO                    NO
 L0000690         0   0.27624E-02  491258.1 3861127.2   663.9     3.40     6.23
3.16     NO                    NO
 L0000691         0   0.27624E-02  491271.5 3861127.1   663.7     3.40     6.23
3.16     NO                    NO
 L0000692         0   0.27624E-02  491284.9 3861126.9   663.4     3.40     6.23
3.16     NO                    NO
 L0000693         0   0.27624E-02  491298.3 3861126.8   663.2     3.40     6.23
3.16     NO                    NO
 L0000694         0   0.27624E-02  491311.7 3861126.7   663.1     3.40     6.23
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3.16     NO                     NO
 L0000695         0   0.27624E-02  491325.1 3861126.5   663.1     3.40     6.23
3.16     NO                     NO
 L0000696         0   0.27624E-02  491338.5 3861126.4   662.9     3.40     6.23
3.16     NO                     NO
 L0000697         0   0.27624E-02  491351.9 3861126.3   662.5     3.40     6.23
3.16     NO                     NO
 L0000698         0   0.27624E-02  491365.3 3861126.1   662.3     3.40     6.23
3.16     NO                     NO
 L0000699         0   0.27624E-02  491378.7 3861126.0   662.2     3.40     6.23
3.16     NO                     NO
 L0000700         0   0.27624E-02  491392.1 3861125.9   663.2     3.40     6.23
3.16     NO                     NO
 L0000701         0   0.27624E-02  491405.5 3861125.8   664.5     3.40     6.23
3.16     NO                     NO
 L0000702         0   0.27624E-02  491409.9 3861116.2   663.5     3.40     6.23
3.16     NO                     NO
 L0000703         0   0.27624E-02  491410.7 3861102.8   664.2     3.40     6.23
3.16     NO                     NO
 L0000704         0   0.27624E-02  491411.5 3861089.5   666.9     3.40     6.23
3.16     NO                     NO
 L0000705         0   0.27624E-02  491412.3 3861076.1   668.9     3.40     6.23
3.16     NO                     NO
 L0000706         0   0.27624E-02  491413.1 3861062.7   668.9     3.40     6.23
3.16     NO                     NO
 L0000707         0   0.27624E-02  491413.9 3861049.3   668.9     3.40     6.23
3.16     NO                     NO
 L0000708         0   0.27624E-02  491414.7 3861036.0   669.0     3.40     6.23
3.16     NO                     NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000709         0   0.27624E-02  491415.5 3861022.6   669.0     3.40     6.23
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3.16     NO                    NO
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3.16     NO                    NO
 L0000711         0   0.27624E-02  491417.0 3860995.8   669.0     3.40     6.23
3.16     NO                    NO
 L0000712         0   0.27624E-02  491417.8 3860982.5   669.1     3.40     6.23
3.16     NO                    NO
 L0000713         0   0.27624E-02  491418.6 3860969.1   669.0     3.40     6.23
3.16     NO                    NO
 L0000714         0   0.27624E-02  491419.4 3860955.7   669.0     3.40     6.23
3.16     NO                    NO
 L0000715         0   0.27624E-02  491420.2 3860942.3   669.0     3.40     6.23
3.16     NO                    NO
 L0000716         0   0.27624E-02  491421.0 3860928.9   669.0     3.40     6.23
3.16     NO                    NO
 L0000717         0   0.27624E-02  491421.8 3860915.6   669.1     3.40     6.23
3.16     NO                    NO
 L0000718         0   0.27624E-02  491422.5 3860902.2   669.2     3.40     6.23
3.16     NO                    NO
 L0000719         0   0.27624E-02  491423.3 3860888.8   669.3     3.40     6.23
3.16     NO                    NO
 L0000720         0   0.27624E-02  491424.1 3860875.4   669.4     3.40     6.23
3.16     NO                    NO
 L0000721         0   0.27624E-02  491424.9 3860862.1   669.5     3.40     6.23
3.16     NO                    NO
 L0000722         0   0.27624E-02  491425.7 3860848.7   669.4     3.40     6.23
3.16     NO                    NO
 L0000723         0   0.27624E-02  491426.5 3860835.3   669.4     3.40     6.23
3.16     NO                    NO
 L0000724         0   0.27624E-02  491427.3 3860821.9   669.6     3.40     6.23
3.16     NO                    NO
 L0000725         0   0.27624E-02  491428.0 3860808.6   669.9     3.40     6.23
3.16     NO                    NO
 L0000726         0   0.27624E-02  491428.8 3860795.2   670.2     3.40     6.23
3.16     NO                    NO
 L0000727         0   0.27624E-02  491429.6 3860781.8   670.7     3.40     6.23
3.16     NO                    NO
 L0000728         0   0.27624E-02  491430.4 3860768.4   671.3     3.40     6.23
3.16     NO                    NO
 L0000729         0   0.27624E-02  491434.0 3860755.6   672.3     3.40     6.23
3.16     NO                    NO
 L0000730         0   0.27624E-02  491438.4 3860742.9   672.6     3.40     6.23
3.16     NO                    NO
 L0000731         0   0.27624E-02  491442.8 3860730.3   673.0     3.40     6.23
3.16     NO                    NO
 L0000732         0   0.27624E-02  491447.1 3860717.6   673.2     3.40     6.23
3.16     NO                    NO
 L0000733         0   0.27624E-02  491451.5 3860704.9   673.4     3.40     6.23
3.16     NO                    NO
 L0000734         0   0.27624E-02  491455.9 3860692.3   673.3     3.40     6.23
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3.16     NO                     NO
 L0000735         0   0.27624E-02  491460.3 3860679.6   673.3     3.40     6.23
3.16     NO                     NO
 L0000736         0   0.27624E-02  491464.6 3860666.9   674.1     3.40     6.23
3.16     NO                     NO
 L0000737         0   0.27624E-02  491469.0 3860654.3   674.9     3.40     6.23
3.16     NO                     NO
 L0000738         0   0.27624E-02  491473.4 3860641.6   675.4     3.40     6.23
3.16     NO                     NO
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3.16     NO                     NO
 L0000740         0   0.27624E-02  491482.1 3860616.3   676.0     3.40     6.23
3.16     NO                     NO
 L0000741         0   0.27624E-02  491486.5 3860603.6   676.3     3.40     6.23
3.16     NO                     NO
 L0000742         0   0.27624E-02  491490.8 3860590.9   676.7     3.40     6.23
3.16     NO                     NO
 L0000743         0   0.27624E-02  491495.2 3860578.3   677.3     3.40     6.23
3.16     NO                     NO
 L0000744         0   0.27624E-02  491499.6 3860565.6   677.8     3.40     6.23
3.16     NO                     NO
 L0000745         0   0.27624E-02  491503.9 3860552.9   678.3     3.40     6.23
3.16     NO                     NO
 L0000746         0   0.27624E-02  491508.3 3860540.3   678.5     3.40     6.23
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0000749         0   0.27624E-02  491521.4 3860502.3   680.0     3.40     6.23
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3.16     NO                    NO
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3.16     NO                    NO
 L0000751         0   0.27624E-02  491530.1 3860476.9   680.9     3.40     6.23
3.16     NO                    NO
 L0000752         0   0.27624E-02  491534.5 3860464.2   681.5     3.40     6.23
3.16     NO                    NO
 L0000753         0   0.27624E-02  491541.1 3860452.8   680.9     3.40     6.23
3.16     NO                    NO
 L0000754         0   0.27624E-02  491549.4 3860442.3   677.8     3.40     6.23
3.16     NO                    NO
 L0000755         0   0.27624E-02  491557.7 3860431.8   672.4     3.40     6.23
3.16     NO                    NO
 L0000756         0   0.27624E-02  491566.0 3860421.3   671.0     3.40     6.23
3.16     NO                    NO
 L0000757         0   0.27624E-02  491574.3 3860410.8   670.9     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0000759         0   0.27624E-02  491591.0 3860389.7   672.8     3.40     6.23
3.16     NO                    NO
 L0000760         0   0.27624E-02  491599.3 3860379.2   676.6     3.40     6.23
3.16     NO                    NO
 L0000761         0   0.27624E-02  491607.6 3860368.7   681.7     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0000763         0   0.27624E-02  491624.3 3860347.7   684.4     3.40     6.23
3.16     NO                    NO
 L0000764         0   0.27624E-02  491632.6 3860337.2   684.7     3.40     6.23
3.16     NO                    NO
 L0000765         0   0.27624E-02  491640.9 3860326.7   684.9     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0000767         0   0.27624E-02  491657.5 3860305.7   685.2     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000771         0   0.27624E-02  491690.8 3860263.7   685.9     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0000773         0   0.27624E-02  491707.4 3860242.7   686.0     3.40     6.23
3.16     NO                    NO
 L0000774         0   0.27624E-02  491715.7 3860232.2   686.2     3.40     6.23
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3.16   NO   NO
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3.16   NO   NO
 L0000776   0   0.27624E-02 491732.4 3860211.1   686.3   3.40   6.23
3.16   NO   NO
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3.16   NO   NO
 L0000778   0   0.27624E-02 491749.0 3860190.1   686.8   3.40   6.23
3.16   NO   NO
 L0000779   0   0.27624E-02 491757.3 3860179.6   686.6   3.40   6.23
3.16   NO   NO
 L0000780   0   0.27624E-02 491765.6 3860169.1   687.0   3.40   6.23
3.16   NO   NO
 L0000781   0   0.27624E-02 491774.0 3860158.6   687.2   3.40   6.23
3.16   NO   NO
 L0000782   0   0.27624E-02 491782.3 3860148.1   685.8   3.40   6.23
3.16   NO   NO
 L0000783   0   0.27624E-02 491790.6 3860137.6   683.5   3.40   6.23
3.16   NO   NO
 L0000784   0   0.27624E-02 491798.9 3860127.1   681.0   3.40   6.23
3.16   NO   NO
 L0000785   0   0.27624E-02 491807.2 3860116.6   680.4   3.40   6.23
3.16   NO   NO
 L0000786   0   0.27624E-02 491815.6 3860106.1   681.3   3.40   6.23
3.16   NO   NO
 L0000787   0   0.27624E-02 491823.9 3860095.6   683.6   3.40   6.23
3.16   NO   NO
 L0000788   0   0.27624E-02 491832.2 3860085.1   685.8   3.40   6.23
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0000789   0   0.27624E-02 491840.6 3860074.7   687.9   3.40   6.23

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3.16     NO                    NO
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3.16     NO                    NO
 L0000791         0   0.27624E-02  491858.1 3860054.3   688.1     3.40     6.23
3.16     NO                    NO
 L0000792         0   0.27624E-02  491866.8 3860044.2   688.7     3.40     6.23
3.16     NO                    NO
 L0000793         0   0.27624E-02  491875.6 3860034.0   688.9     3.40     6.23
3.16     NO                    NO
 L0000794         0   0.27624E-02  491884.3 3860023.9   688.7     3.40     6.23
3.16     NO                    NO
 L0000795         0   0.27624E-02  491893.1 3860013.7   689.2     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000799         0   0.27624E-02  491928.0 3859973.1   689.7     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0000801         0   0.27624E-02  491945.5 3859952.8   690.0     3.40     6.23
3.16     NO                    NO
 L0000802         0   0.27624E-02  491954.2 3859942.6   690.2     3.40     6.23
3.16     NO                    NO
 L0000803         0   0.27624E-02  491963.0 3859932.5   690.2     3.40     6.23
3.16     NO                    NO
 L0000804         0   0.27624E-02  491971.7 3859922.3   690.5     3.40     6.23
3.16     NO                    NO
 L0000805         0   0.27624E-02  491980.5 3859912.1   690.6     3.40     6.23
3.16     NO                    NO
 L0000806         0   0.27624E-02  491989.2 3859902.0   690.8     3.40     6.23
3.16     NO                    NO
 L0000807         0   0.27624E-02  491997.9 3859891.8   691.0     3.40     6.23
3.16     NO                    NO
 L0000808         0   0.27624E-02  492006.7 3859881.7   691.1     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0000810         0   0.27624E-02  492024.2 3859861.4   691.5     3.40     6.23
3.16     NO                    NO
 L0000811         0   0.27624E-02  492032.9 3859851.2   691.6     3.40     6.23
3.16     NO                    NO
 L0000812         0   0.27624E-02  492041.6 3859841.0   691.8     3.40     6.23
3.16     NO                    NO
 L0000813         0   0.27624E-02  492050.4 3859830.9   692.1     3.40     6.23
3.16     NO                    NO
 L0000814         0   0.27624E-02  492059.1 3859820.7   692.3     3.40     6.23
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3.16   NO   NO
 L0000815   0   0.27624E-02 492067.9 3859810.6   692.5   3.40   6.23
3.16   NO   NO
 L0000816   0   0.27624E-02 492076.6 3859800.4   692.9   3.40   6.23
3.16   NO   NO
 L0000817   0   0.27624E-02 492085.3 3859790.2   693.2   3.40   6.23
3.16   NO   NO
 L0000818   0   0.27624E-02 492094.1 3859780.1   693.5   3.40   6.23
3.16   NO   NO
 L0000819   0   0.27624E-02 492102.8 3859769.9   694.0   3.40   6.23
3.16   NO   NO
 L0000820   0   0.27624E-02 492111.6 3859759.8   694.3   3.40   6.23
3.16   NO   NO
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3.16   NO   NO
 L0000822   0   0.27624E-02 492129.0 3859739.5   695.1   3.40   6.23
3.16   NO   NO
 L0000823   0   0.27624E-02 492137.8 3859729.3   695.5   3.40   6.23
3.16   NO   NO
 L0000824   0   0.27624E-02 492146.5 3859719.1   695.9   3.40   6.23
3.16   NO   NO
 L0000825   0   0.27624E-02 492155.3 3859709.0   696.4   3.40   6.23
3.16   NO   NO
 L0000826   0   0.27624E-02 492164.0 3859698.8   696.8   3.40   6.23
3.16   NO   NO
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3.16   NO   NO
 L0000828   0   0.27624E-02 492181.5 3859678.5   697.6   3.40   6.23
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000843         0   0.27624E-02  492312.6 3859526.2   703.9     3.40     6.23
3.16     NO                    NO
 L0000844         0   0.27624E-02  492321.3 3859516.0   704.2     3.40     6.23
3.16     NO                    NO
 L0000845         0   0.27624E-02  492330.1 3859505.8   704.6     3.40     6.23
3.16     NO                    NO
 L0000846         0   0.27624E-02  492338.8 3859495.7   705.1     3.40     6.23
3.16     NO                    NO
 L0000847         0   0.27624E-02  492347.5 3859485.5   705.4     3.40     6.23
3.16     NO                    NO
 L0000848         0   0.27624E-02  492356.3 3859475.4   705.8     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000853         0   0.27624E-02  492400.0 3859424.6   707.8     3.40     6.23
3.16     NO                    NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0000859         0   0.27624E-02  492452.4 3859363.6   710.2     3.40     6.23
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0000869         0   0.27624E-02  492539.8 3859262.1   714.1     3.40     6.23
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000873         0   0.27624E-02  492574.8 3859221.4   715.6     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0000875         0   0.27624E-02  492592.3 3859201.1   716.4     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000892         0   0.27624E-02  492740.8 3859028.4   723.2     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0000898   0   0.27624E-02 492793.3 3858967.5   725.4   3.40   6.23
3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0000902   0   0.58140E-02 489206.8 3861204.1   667.3   3.40   6.23
3.16   NO   NO
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3.16   NO   NO
 L0000904   0   0.58140E-02 489206.6 3861230.9   667.0   3.40   6.23
3.16   NO   NO
 L0000905   0   0.58140E-02 489206.5 3861244.3   667.0   3.40   6.23
3.16   NO   NO
 L0000906   0   0.58140E-02 489206.4 3861257.7   666.9   3.40   6.23
3.16   NO   NO
 L0000907   0   0.58140E-02 489206.3 3861271.1   666.9   3.40   6.23
3.16   NO   NO
 L0000908   0   0.58140E-02 489206.2 3861284.5   666.9   3.40   6.23
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 - - -

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3.16     NO                    NO
 L0000910         0   0.58140E-02  489206.0 3861311.3   666.7     3.40     6.23
3.16     NO                    NO
 L0000911         0   0.58140E-02  489206.0 3861324.7   666.6     3.40     6.23
3.16     NO                    NO
 L0000912         0   0.58140E-02  489205.9 3861338.1   666.4     3.40     6.23
3.16     NO                    NO
 L0000913         0   0.58140E-02  489205.8 3861351.5   666.3     3.40     6.23
3.16     NO                    NO
 L0000914         0   0.58140E-02  489205.7 3861364.9   666.2     3.40     6.23
3.16     NO                    NO
 L0000915         0   0.58140E-02  489205.6 3861378.3   666.1     3.40     6.23
3.16     NO                    NO
 L0000916         0   0.58140E-02  489205.5 3861391.7   666.1     3.40     6.23
3.16     NO                    NO
 L0000917         0   0.58140E-02  489205.4 3861405.1   666.0     3.40     6.23
3.16     NO                    NO
 L0000918         0   0.58140E-02  489205.3 3861418.5   665.9     3.40     6.23
3.16     NO                    NO
 L0000919         0   0.58140E-02  489205.2 3861431.9   665.9     3.40     6.23
3.16     NO                    NO
 L0000920         0   0.58140E-02  489205.1 3861445.3   665.8     3.40     6.23
3.16     NO                    NO
 L0000921         0   0.58140E-02  489205.0 3861458.7   665.8     3.40     6.23
3.16     NO                    NO
 L0000922         0   0.58140E-02  489204.9 3861472.0   665.7     3.40     6.23
3.16     NO                    NO
 L0000923         0   0.58140E-02  489204.8 3861485.4   665.6     3.40     6.23
3.16     NO                    NO
 L0000924         0   0.58140E-02  489204.8 3861498.8   665.5     3.40     6.23
3.16     NO                    NO
 L0000925         0   0.58140E-02  489204.7 3861512.2   665.4     3.40     6.23
3.16     NO                    NO
 L0000926         0   0.58140E-02  489204.6 3861525.6   665.3     3.40     6.23
3.16     NO                    NO
 L0000927         0   0.58140E-02  489204.5 3861539.0   665.1     3.40     6.23
3.16     NO                    NO
 L0000928         0   0.58140E-02  489204.4 3861552.4   665.0     3.40     6.23
3.16     NO                    NO
 L0000929         0   0.58140E-02  489204.3 3861565.8   664.8     3.40     6.23
3.16     NO                    NO
 L0000930         0   0.58140E-02  489204.2 3861579.2   664.8     3.40     6.23
3.16     NO                    NO
 L0000931         0   0.58140E-02  489204.1 3861592.6   664.7     3.40     6.23
3.16     NO                    NO
 L0000932         0   0.58140E-02  489204.0 3861606.0   664.6     3.40     6.23
3.16     NO                    NO
 L0000933         0   0.58140E-02  489203.9 3861619.4   664.2     3.40     6.23
3.16     NO                    NO
 L0000934         0   0.58140E-02  489203.8 3861632.8   663.8     3.40     6.23
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3.16     NO                     NO
 L0000935         0   0.58140E-02  489203.7 3861646.2   663.2     3.40     6.23
3.16     NO                     NO
 L0000936         0   0.58140E-02  489203.7 3861659.6   662.6     3.40     6.23
3.16     NO                     NO
 L0000937         0   0.58140E-02  489203.6 3861673.0   662.2     3.40     6.23
3.16     NO                     NO
 L0000938         0   0.58140E-02  489203.5 3861686.4   662.2     3.40     6.23
3.16     NO                     NO
 L0000939         0   0.58140E-02  489203.4 3861699.8   662.3     3.40     6.23
3.16     NO                     NO
 L0000940         0   0.58140E-02  489203.3 3861713.2   662.3     3.40     6.23
3.16     NO                     NO
 L0000941         0   0.58140E-02  489203.2 3861726.6   662.3     3.40     6.23
3.16     NO                     NO
 L0000942         0   0.58140E-02  489203.1 3861740.0   662.7     3.40     6.23
3.16     NO                     NO
 L0000943         0   0.58140E-02  489203.0 3861753.4   663.2     3.40     6.23
3.16     NO                     NO
 L0000944         0   0.58140E-02  489202.9 3861766.8   663.6     3.40     6.23
3.16     NO                     NO
 L0000945         0   0.58140E-02  489202.8 3861780.2   663.9     3.40     6.23
3.16     NO                     NO
 L0000946         0   0.58140E-02  489202.7 3861793.6   664.1     3.40     6.23
3.16     NO                     NO
 L0000947         0   0.58140E-02  489202.6 3861807.0   664.1     3.40     6.23
3.16     NO                     NO
 L0000948         0   0.58140E-02  489202.5 3861820.4   664.1     3.40     6.23
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0000949	0	0.58140E-02	489202.5	3861833.8	664.2	3.40	6.23			

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3.16     NO                    NO
 L0000950         0   0.58140E-02  489202.4 3861847.2   664.2     3.40     6.23
3.16     NO                    NO
 L0000951         0   0.58140E-02  489202.3 3861860.6   664.2     3.40     6.23
3.16     NO                    NO
 L0000952         0   0.58140E-02  489202.2 3861874.0   664.2     3.40     6.23
3.16     NO                    NO
 L0000953         0   0.58140E-02  489202.1 3861887.4   664.2     3.40     6.23
3.16     NO                    NO
 L0000954         0   0.58140E-02  489202.0 3861900.8   664.2     3.40     6.23
3.16     NO                    NO
 L0000955         0   0.58140E-02  489201.9 3861914.2   664.3     3.40     6.23
3.16     NO                    NO
 L0000956         0   0.58140E-02  489201.8 3861927.6   664.4     3.40     6.23
3.16     NO                    NO
 L0000957         0   0.58140E-02  489201.7 3861941.0   664.5     3.40     6.23
3.16     NO                    NO
 L0000958         0   0.58140E-02  489201.6 3861954.4   664.7     3.40     6.23
3.16     NO                    NO
 L0000959         0   0.58140E-02  489201.5 3861967.8   664.9     3.40     6.23
3.16     NO                    NO
 L0000960         0   0.58140E-02  489201.4 3861981.2   665.0     3.40     6.23
3.16     NO                    NO
 L0000961         0   0.58140E-02  489201.3 3861994.6   665.2     3.40     6.23
3.16     NO                    NO
 L0000962         0   0.58140E-02  489201.3 3862008.0   665.4     3.40     6.23
3.16     NO                    NO
 L0000963         0   0.58140E-02  489201.2 3862021.4   665.5     3.40     6.23
3.16     NO                    NO
 L0000964         0   0.58140E-02  489201.1 3862034.8   665.6     3.40     6.23
3.16     NO                    NO
 L0000965         0   0.58140E-02  489201.0 3862048.2   665.8     3.40     6.23
3.16     NO                    NO
 L0000966         0   0.58140E-02  489200.9 3862061.6   665.9     3.40     6.23
3.16     NO                    NO
 L0000967         0   0.58140E-02  489200.8 3862075.0   665.9     3.40     6.23
3.16     NO                    NO
 L0000968         0   0.58140E-02  489200.7 3862088.4   666.0     3.40     6.23
3.16     NO                    NO
 L0000969         0   0.58140E-02  489200.6 3862101.8   666.0     3.40     6.23
3.16     NO                    NO
 L0000970         0   0.58140E-02  489200.5 3862115.2   666.1     3.40     6.23
3.16     NO                    NO
 L0000971         0   0.58140E-02  489200.4 3862128.6   666.1     3.40     6.23
3.16     NO                    NO
 L0000972         0   0.58140E-02  489200.3 3862142.0   666.1     3.40     6.23
3.16     NO                    NO
 L0000973         0   0.58140E-02  489200.2 3862155.4   666.2     3.40     6.23
3.16     NO                    NO
 L0000974         0   0.58140E-02  489200.1 3862168.8   666.2     3.40     6.23
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3.16     NO                     NO
 L0000975         0   0.58140E-02  489200.1 3862182.2   666.2     3.40     6.23
3.16     NO                     NO
 L0000976         0   0.58140E-02  489200.0 3862195.6   666.2     3.40     6.23
3.16     NO                     NO
 L0000977         0   0.58140E-02  489199.9 3862209.0   666.1     3.40     6.23
3.16     NO                     NO
 L0000978         0   0.58140E-02  489199.8 3862222.4   666.1     3.40     6.23
3.16     NO                     NO
 L0000979         0   0.58140E-02  489199.7 3862235.8   666.1     3.40     6.23
3.16     NO                     NO
 L0000980         0   0.58140E-02  489199.6 3862249.2   666.1     3.40     6.23
3.16     NO                     NO
 L0000981         0   0.58140E-02  489199.5 3862262.6   666.1     3.40     6.23
3.16     NO                     NO
 L0000982         0   0.58140E-02  489199.4 3862276.0   666.0     3.40     6.23
3.16     NO                     NO
 L0000983         0   0.58140E-02  489199.3 3862289.4   666.0     3.40     6.23
3.16     NO                     NO
 L0000984         0   0.58140E-02  489199.2 3862302.8   666.0     3.40     6.23
3.16     NO                     NO
 L0000985         0   0.58140E-02  489199.1 3862316.2   666.0     3.40     6.23
3.16     NO                     NO
 L0000986         0   0.58140E-02  489199.0 3862329.6   665.9     3.40     6.23
3.16     NO                     NO
 L0000987         0   0.58140E-02  489198.9 3862343.0   665.9     3.40     6.23
3.16     NO                     NO
 L0000988         0   0.58140E-02  489198.9 3862356.4   665.8     3.40     6.23
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000989         0   0.58140E-02  489198.8 3862369.8   665.8     3.40     6.23
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3.16     NO                    NO
 L0000990         0   0.58140E-02  489198.7 3862383.2   665.8     3.40     6.23
3.16     NO                    NO
 L0000991         0   0.58140E-02  489198.6 3862396.6   665.8     3.40     6.23
3.16     NO                    NO
 L0000992         0   0.58140E-02  489198.5 3862410.0   665.8     3.40     6.23
3.16     NO                    NO
 L0000993         0   0.58140E-02  489198.4 3862423.4   665.7     3.40     6.23
3.16     NO                    NO
 L0000994         0   0.58140E-02  489198.3 3862436.8   665.6     3.40     6.23
3.16     NO                    NO
 L0000995         0   0.58140E-02  489198.2 3862450.2   665.6     3.40     6.23
3.16     NO                    NO
 L0000996         0   0.58140E-02  489198.1 3862463.6   665.6     3.40     6.23
3.16     NO                    NO
 L0000997         0   0.58140E-02  489198.0 3862477.0   665.6     3.40     6.23
3.16     NO                    NO
 L0000998         0   0.58140E-02  489197.9 3862490.4   665.5     3.40     6.23
3.16     NO                    NO
 L0000999         0   0.58140E-02  489197.8 3862503.8   665.5     3.40     6.23
3.16     NO                    NO
 L0001000         0   0.58140E-02  489197.8 3862517.2   665.5     3.40     6.23
3.16     NO                    NO
 L0001001         0   0.58140E-02  489197.7 3862530.6   665.6     3.40     6.23
3.16     NO                    NO
 L0001002         0   0.58140E-02  489197.6 3862544.0   665.6     3.40     6.23
3.16     NO                    NO
 L0001003         0   0.58140E-02  489197.5 3862557.4   665.6     3.40     6.23
3.16     NO                    NO
 L0001004         0   0.58140E-02  489197.4 3862570.8   665.6     3.40     6.23
3.16     NO                    NO
 L0001005         0   0.58140E-02  489197.3 3862584.2   665.5     3.40     6.23
3.16     NO                    NO
 L0001006         0   0.58140E-02  489197.2 3862597.6   665.4     3.40     6.23
3.16     NO                    NO
 L0001007         0   0.58140E-02  489197.1 3862611.0   665.4     3.40     6.23
3.16     NO                    NO
 L0001008         0   0.58140E-02  489197.0 3862624.4   665.3     3.40     6.23
3.16     NO                    NO
 L0001009         0   0.58140E-02  489196.9 3862637.8   665.3     3.40     6.23
3.16     NO                    NO
 L0001010         0   0.58140E-02  489196.8 3862651.2   665.3     3.40     6.23
3.16     NO                    NO
 L0001011         0   0.58140E-02  489196.7 3862664.6   665.3     3.40     6.23
3.16     NO                    NO
 L0001012         0   0.58140E-02  489196.6 3862678.0   665.3     3.40     6.23
3.16     NO                    NO
 L0001013         0   0.58140E-02  489196.6 3862691.4   665.3     3.40     6.23
3.16     NO                    NO
 L0001014         0   0.58140E-02  489196.5 3862704.8   665.2     3.40     6.23
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3.16     NO                     NO
 L0001015         0   0.58140E-02  489196.4 3862718.2   665.2     3.40     6.23
3.16     NO                     NO
 L0001016         0   0.58140E-02  489196.3 3862731.6   665.2     3.40     6.23
3.16     NO                     NO
 L0001017         0   0.58140E-02  489196.2 3862745.0   665.3     3.40     6.23
3.16     NO                     NO
 L0001018         0   0.58140E-02  489196.1 3862758.4   665.2     3.40     6.23
3.16     NO                     NO
 L0001019         0   0.58140E-02  489196.0 3862771.8   665.1     3.40     6.23
3.16     NO                     NO
 L0001020         0   0.58140E-02  489195.9 3862785.2   665.0     3.40     6.23
3.16     NO                     NO
 L0001021         0   0.58140E-02  489195.8 3862798.6   664.9     3.40     6.23
3.16     NO                     NO
 L0001022         0   0.58140E-02  489195.7 3862812.0   664.9     3.40     6.23
3.16     NO                     NO
 L0001023         0   0.58140E-02  489195.6 3862825.4   664.8     3.40     6.23
3.16     NO                     NO
 L0001024         0   0.58140E-02  489195.5 3862838.8   664.8     3.40     6.23
3.16     NO                     NO
 L0001025         0   0.58140E-02  489195.4 3862852.2   664.8     3.40     6.23
3.16     NO                     NO
 L0001026         0   0.58140E-02  489195.4 3862865.6   664.7     3.40     6.23
3.16     NO                     NO
 L0001027         0   0.58140E-02  489195.3 3862879.0   664.7     3.40     6.23
3.16     NO                     NO
 L0001028         0   0.58140E-02  489195.2 3862892.4   664.6     3.40     6.23
3.16     NO                     NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0001029         0   0.58140E-02  489195.1 3862905.8   664.6     3.40     6.23
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3.16     NO                    NO
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3.16     NO                    NO
 L0001031         0   0.58140E-02  489194.9 3862932.6   664.5     3.40     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0001033         0   0.58140E-02  489194.7 3862959.4   664.5     3.40     6.23
3.16     NO                    NO
 L0001034         0   0.58140E-02  489194.6 3862972.8   664.4     3.40     6.23
3.16     NO                    NO
 L0001035         0   0.58140E-02  489194.5 3862986.2   664.3     3.40     6.23
3.16     NO                    NO
 L0001036         0   0.58140E-02  489194.4 3862999.6   664.2     3.40     6.23
3.16     NO                    NO
 L0001037         0   0.58140E-02  489194.3 3863013.0   664.3     3.40     6.23
3.16     NO                    NO
 L0001038         0   0.58140E-02  489194.2 3863026.4   664.3     3.40     6.23
3.16     NO                    NO
 L0001039         0   0.58140E-02  489194.2 3863039.8   664.1     3.40     6.23
3.16     NO                    NO
 L0001040         0   0.58140E-02  489194.1 3863053.2   664.0     3.40     6.23
3.16     NO                    NO
 L0001041         0   0.58140E-02  489194.0 3863066.6   664.0     3.40     6.23
3.16     NO                    NO
 L0001042         0   0.58140E-02  489193.9 3863080.0   664.0     3.40     6.23
3.16     NO                    NO
 L0001043         0   0.58140E-02  489193.8 3863093.4   664.0     3.40     6.23
3.16     NO                    NO
 L0001044         0   0.58140E-02  489193.7 3863106.8   663.9     3.40     6.23
3.16     NO                    NO
 L0001045         0   0.58140E-02  489193.6 3863120.2   663.9     3.40     6.23
3.16     NO                    NO
 L0001046         0   0.58140E-02  489193.5 3863133.6   664.0     3.40     6.23
3.16     NO                    NO
 L0001047         0   0.58140E-02  489193.4 3863147.0   664.0     3.40     6.23
3.16     NO                    NO
 L0001048         0   0.58140E-02  489193.3 3863160.4   664.1     3.40     6.23
3.16     NO                    NO
 L0001049         0   0.58140E-02  489193.2 3863173.8   664.2     3.40     6.23
3.16     NO                    NO
 L0001050         0   0.58140E-02  489193.1 3863187.2   664.2     3.40     6.23
3.16     NO                    NO
 L0001051         0   0.58140E-02  489193.0 3863200.6   664.3     3.40     6.23
3.16     NO                    NO
 L0001052         0   0.58140E-02  489193.0 3863214.0   664.3     3.40     6.23
3.16     NO                    NO
 L0001053         0   0.58140E-02  489192.9 3863227.4   664.4     3.40     6.23
3.16     NO                    NO
 L0001054         0   0.58140E-02  489192.8 3863240.8   664.4     3.40     6.23
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3.16     NO                     NO
 L0001055         0   0.58140E-02  489192.7 3863254.2   664.3     3.40     6.23
3.16     NO                     NO
 L0001056         0   0.58140E-02  489192.6 3863267.6   664.1     3.40     6.23
3.16     NO                     NO
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3.16     NO                     NO
 L0001058         0   0.58140E-02  489192.4 3863294.4   664.1     3.40     6.23
3.16     NO                     NO
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3.16     NO                     NO
 L0001060         0   0.58140E-02  489192.2 3863321.2   664.1     3.40     6.23
3.16     NO                     NO
 L0001061         0   0.58140E-02  489192.1 3863334.6   664.1     3.40     6.23
3.16     NO                     NO
 L0001062         0   0.58140E-02  489192.0 3863348.0   664.0     3.40     6.23
3.16     NO                     NO
 L0001063         0   0.58140E-02  489191.9 3863361.4   664.0     3.40     6.23
3.16     NO                     NO
 L0001064         0   0.58140E-02  489191.8 3863374.8   664.0     3.40     6.23
3.16     NO                     NO
 L0001065         0   0.58140E-02  489191.8 3863388.2   664.0     3.40     6.23
3.16     NO                     NO
 L0001066         0   0.58140E-02  489191.7 3863401.6   664.0     3.40     6.23
3.16     NO                     NO
 L0001067         0   0.58140E-02  489191.6 3863415.0   663.9     3.40     6.23
3.16     NO                     NO
 L0001068         0   0.58140E-02  489191.5 3863428.4   663.9     3.40     6.23
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
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 L0001069         0   0.58140E-02  489191.4 3863441.8   664.0     3.40     6.23
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3.16     NO                    NO
 L0001070         0   0.58140E-02  489191.3 3863455.2   664.0     3.40     6.23
3.16     NO                    NO
 L0001071         0   0.58140E-02  489191.2 3863468.6   664.1     3.40     6.23
3.16     NO                    NO
 L0001072         0   0.58140E-02  489191.1 3863482.0   664.1     3.40     6.23
3.16     NO                    NO
 L0001073         0   0.25253E-02  489208.3 3860504.9   673.7     3.40     6.23
3.16     NO                    NO
 L0001074         0   0.25253E-02  489208.3 3860491.5   673.8     3.40     6.23
3.16     NO                    NO
 L0001075         0   0.25253E-02  489208.4 3860478.1   673.9     3.40     6.23
3.16     NO                    NO
 L0001076         0   0.25253E-02  489208.4 3860464.7   674.0     3.40     6.23
3.16     NO                    NO
 L0001077         0   0.25253E-02  489208.5 3860451.3   674.2     3.40     6.23
3.16     NO                    NO
 L0001078         0   0.25253E-02  489208.6 3860437.9   674.4     3.40     6.23
3.16     NO                    NO
 L0001079         0   0.25253E-02  489208.6 3860424.5   674.7     3.40     6.23
3.16     NO                    NO
 L0001080         0   0.25253E-02  489208.7 3860411.1   675.1     3.40     6.23
3.16     NO                    NO
 L0001081         0   0.25253E-02  489208.7 3860397.7   675.2     3.40     6.23
3.16     NO                    NO
 L0001082         0   0.25253E-02  489208.8 3860384.3   675.2     3.40     6.23
3.16     NO                    NO
 L0001083         0   0.25253E-02  489208.9 3860370.9   675.2     3.40     6.23
3.16     NO                    NO
 L0001084         0   0.25253E-02  489208.9 3860357.5   675.3     3.40     6.23
3.16     NO                    NO
 L0001085         0   0.25253E-02  489209.0 3860344.1   675.4     3.40     6.23
3.16     NO                    NO
 L0001086         0   0.25253E-02  489209.0 3860330.7   675.6     3.40     6.23
3.16     NO                    NO
 L0001087         0   0.25253E-02  489209.1 3860317.3   675.8     3.40     6.23
3.16     NO                    NO
 L0001088         0   0.25253E-02  489209.2 3860303.9   676.0     3.40     6.23
3.16     NO                    NO
 L0001089         0   0.25253E-02  489209.2 3860290.5   676.1     3.40     6.23
3.16     NO                    NO
 L0001090         0   0.25253E-02  489209.3 3860277.1   676.2     3.40     6.23
3.16     NO                    NO
 L0001091         0   0.25253E-02  489209.3 3860263.7   676.3     3.40     6.23
3.16     NO                    NO
 L0001092         0   0.25253E-02  489209.4 3860250.3   676.5     3.40     6.23
3.16     NO                    NO
 L0001093         0   0.25253E-02  489209.5 3860236.9   676.7     3.40     6.23
3.16     NO                    NO
 L0001094         0   0.25253E-02  489209.5 3860223.5   676.9     3.40     6.23
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3.16     NO                     NO
 L0001095         0   0.25253E-02  489209.6 3860210.1   677.0     3.40     6.23
3.16     NO                     NO
 L0001096         0   0.25253E-02  489209.6 3860196.7   677.1     3.40     6.23
3.16     NO                     NO
 L0001097         0   0.25253E-02  489209.7 3860183.3   677.2     3.40     6.23
3.16     NO                     NO
 L0001098         0   0.25253E-02  489209.8 3860169.9   677.3     3.40     6.23
3.16     NO                     NO
 L0001099         0   0.25253E-02  489209.8 3860156.5   677.4     3.40     6.23
3.16     NO                     NO
 L0001100         0   0.25253E-02  489209.9 3860143.1   677.6     3.40     6.23
3.16     NO                     NO
 L0001101         0   0.25253E-02  489209.9 3860129.7   677.8     3.40     6.23
3.16     NO                     NO
 L0001102         0   0.25253E-02  489210.0 3860116.3   678.0     3.40     6.23
3.16     NO                     NO
 L0001103         0   0.25253E-02  489210.1 3860102.9   678.2     3.40     6.23
3.16     NO                     NO
 L0001104         0   0.25253E-02  489210.1 3860089.5   678.3     3.40     6.23
3.16     NO                     NO
 L0001105         0   0.25253E-02  489210.2 3860076.1   678.3     3.40     6.23
3.16     NO                     NO
 L0001106         0   0.25253E-02  489210.2 3860062.7   678.4     3.40     6.23
3.16     NO                     NO
 L0001107         0   0.25253E-02  489210.3 3860049.3   678.5     3.40     6.23
3.16     NO                     NO
 L0001108         0   0.25253E-02  489210.4 3860035.9   678.6     3.40     6.23
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0001109         0   0.25253E-02  489210.4 3860022.5   678.7     3.40     6.23
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3.16	NO		NO					
L0001110	0	0.25253E-02	489210.5	3860009.1	678.8	3.40	6.23	
3.16	NO		NO					
L0001111	0	0.25253E-02	489210.5	3859995.7	678.9	3.40	6.23	
3.16	NO		NO					
L0001112	0	0.25253E-02	489210.6	3859982.3	679.1	3.40	6.23	
3.16	NO		NO					
L0001113	0	0.25253E-02	489210.7	3859968.9	679.1	3.40	6.23	
3.16	NO		NO					
L0001114	0	0.25253E-02	489210.7	3859955.5	678.9	3.40	6.23	
3.16	NO		NO					
L0001115	0	0.25253E-02	489210.8	3859942.1	678.7	3.40	6.23	
3.16	NO		NO					
L0001116	0	0.25253E-02	489210.8	3859928.7	678.8	3.40	6.23	
3.16	NO		NO					
L0001117	0	0.25253E-02	489210.9	3859915.3	678.8	3.40	6.23	
3.16	NO		NO					
L0001118	0	0.25253E-02	489211.0	3859901.9	678.8	3.40	6.23	
3.16	NO		NO					
L0001119	0	0.25253E-02	489211.0	3859888.5	678.8	3.40	6.23	
3.16	NO		NO					
L0001120	0	0.25253E-02	489211.1	3859875.1	678.8	3.40	6.23	
3.16	NO		NO					
L0001121	0	0.25253E-02	489211.1	3859861.7	678.9	3.40	6.23	
3.16	NO		NO					
L0001122	0	0.25253E-02	489211.2	3859848.3	678.9	3.40	6.23	
3.16	NO		NO					
L0001123	0	0.25253E-02	489211.3	3859834.9	679.0	3.40	6.23	
3.16	NO		NO					
L0001124	0	0.25253E-02	489211.3	3859821.5	679.0	3.40	6.23	
3.16	NO		NO					
L0001125	0	0.25253E-02	489211.4	3859808.1	679.1	3.40	6.23	
3.16	NO		NO					
L0001126	0	0.25253E-02	489211.4	3859794.7	679.2	3.40	6.23	
3.16	NO		NO					
L0001127	0	0.25253E-02	489211.5	3859781.3	679.2	3.40	6.23	
3.16	NO		NO					
L0001128	0	0.25253E-02	489211.6	3859767.9	679.3	3.40	6.23	
3.16	NO		NO					
L0001129	0	0.25253E-02	489211.6	3859754.5	679.3	3.40	6.23	
3.16	NO		NO					
L0001130	0	0.25253E-02	489211.7	3859741.1	679.4	3.40	6.23	
3.16	NO		NO					
L0001131	0	0.25253E-02	489211.7	3859727.7	679.5	3.40	6.23	
3.16	NO		NO					
L0001132	0	0.25253E-02	489211.8	3859714.3	679.6	3.40	6.23	
3.16	NO		NO					
L0001133	0	0.25253E-02	489211.9	3859700.9	679.7	3.40	6.23	
3.16	NO		NO					
L0001134	0	0.25253E-02	489211.9	3859687.5	679.8	3.40	6.23	

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3.16     NO                     NO
 L0001135         0   0.25253E-02  489212.0 3859674.1   680.0     3.40     6.23
3.16     NO                     NO
 L0001136         0   0.25253E-02  489212.0 3859660.7   680.1     3.40     6.23
3.16     NO                     NO
 L0001137         0   0.25253E-02  489212.1 3859647.3   680.2     3.40     6.23
3.16     NO                     NO
 L0001138         0   0.25253E-02  489212.2 3859633.9   680.3     3.40     6.23
3.16     NO                     NO
 L0001139         0   0.25253E-02  489212.2 3859620.5   680.3     3.40     6.23
3.16     NO                     NO
 L0001140         0   0.25253E-02  489212.3 3859607.1   680.4     3.40     6.23
3.16     NO                     NO
 L0001141         0   0.25253E-02  489212.3 3859593.7   680.5     3.40     6.23
3.16     NO                     NO
 L0001142         0   0.25253E-02  489212.4 3859580.3   680.5     3.40     6.23
3.16     NO                     NO
 L0001143         0   0.25253E-02  489212.5 3859566.9   680.6     3.40     6.23
3.16     NO                     NO
 L0001144         0   0.25253E-02  489212.5 3859553.5   680.9     3.40     6.23
3.16     NO                     NO
 L0001145         0   0.25253E-02  489212.6 3859540.1   681.1     3.40     6.23
3.16     NO                     NO
 L0001146         0   0.25253E-02  489212.6 3859526.7   681.2     3.40     6.23
3.16     NO                     NO
 L0001147         0   0.25253E-02  489212.7 3859513.3   681.3     3.40     6.23
3.16     NO                     NO
 L0001148         0   0.25253E-02  489212.8 3859499.9   681.4     3.40     6.23
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0001149	0	0.25253E-02	489212.8	3859486.5	681.5	3.40	6.23			

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3.16     NO                    NO
 L0001150         0   0.25253E-02  489212.9 3859473.1   681.6     3.40     6.23
3.16     NO                    NO
 L0001151         0   0.25253E-02  489212.9 3859459.7   681.7     3.40     6.23
3.16     NO                    NO
 L0001152         0   0.25253E-02  489213.0 3859446.3   681.7     3.40     6.23
3.16     NO                    NO
 L0001153         0   0.25253E-02  489213.1 3859432.9   681.8     3.40     6.23
3.16     NO                    NO
 L0001154         0   0.25253E-02  489213.1 3859419.5   681.8     3.40     6.23
3.16     NO                    NO
 L0001155         0   0.25253E-02  489213.2 3859406.1   682.0     3.40     6.23
3.16     NO                    NO
 L0001156         0   0.25253E-02  489213.2 3859392.7   682.2     3.40     6.23
3.16     NO                    NO
 L0001157         0   0.25253E-02  489213.3 3859379.3   682.3     3.40     6.23
3.16     NO                    NO
 L0001158         0   0.25253E-02  489213.4 3859365.9   682.3     3.40     6.23
3.16     NO                    NO
 L0001159         0   0.25253E-02  489213.4 3859352.5   682.4     3.40     6.23
3.16     NO                    NO
 L0001160         0   0.25253E-02  489213.5 3859339.1   682.4     3.40     6.23
3.16     NO                    NO
 L0001161         0   0.25253E-02  489213.5 3859325.7   682.4     3.40     6.23
3.16     NO                    NO
 L0001162         0   0.25253E-02  489213.6 3859312.3   682.7     3.40     6.23
3.16     NO                    NO
 L0001163         0   0.25253E-02  489213.7 3859298.9   683.0     3.40     6.23
3.16     NO                    NO
 L0001164         0   0.25253E-02  489213.7 3859285.5   683.0     3.40     6.23
3.16     NO                    NO
 L0001165         0   0.25253E-02  489213.8 3859272.1   683.0     3.40     6.23
3.16     NO                    NO
 L0001166         0   0.25253E-02  489213.8 3859258.7   683.1     3.40     6.23
3.16     NO                    NO
 L0001167         0   0.25253E-02  489213.9 3859245.3   683.3     3.40     6.23
3.16     NO                    NO
 L0001168         0   0.25253E-02  489214.0 3859231.9   683.5     3.40     6.23
3.16     NO                    NO
 L0001169         0   0.25253E-02  489214.0 3859218.5   683.7     3.40     6.23
3.16     NO                    NO
 L0001170         0   0.25253E-02  489214.1 3859205.1   683.9     3.40     6.23
3.16     NO                    NO
 L0001171         0   0.25253E-02  489214.1 3859191.7   684.1     3.40     6.23
3.16     NO                    NO
 L0001172         0   0.25253E-02  489214.2 3859178.3   684.3     3.40     6.23
3.16     NO                    NO
 L0001173         0   0.25253E-02  489214.3 3859164.9   684.5     3.40     6.23
3.16     NO                    NO
 L0001174         0   0.25253E-02  489214.3 3859151.5   684.8     3.40     6.23
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3.16     NO                     NO
 L0001175         0   0.25253E-02  489214.4 3859138.1   685.0     3.40     6.23
3.16     NO                     NO
 L0001176         0   0.25253E-02  489214.4 3859124.7   685.0     3.40     6.23
3.16     NO                     NO
 L0001177         0   0.25253E-02  489214.5 3859111.3   685.0     3.40     6.23
3.16     NO                     NO
 L0001178         0   0.25253E-02  489214.5 3859097.9   684.8     3.40     6.23
3.16     NO                     NO
 L0001179         0   0.25253E-02  489214.6 3859084.5   684.7     3.40     6.23
3.16     NO                     NO
 L0001180         0   0.25253E-02  489214.7 3859071.1   684.6     3.40     6.23
3.16     NO                     NO
 L0001181         0   0.25253E-02  489214.7 3859057.7   684.6     3.40     6.23
3.16     NO                     NO
 L0001182         0   0.25253E-02  489214.8 3859044.3   684.6     3.40     6.23
3.16     NO                     NO
 L0001183         0   0.25253E-02  489214.8 3859030.9   684.6     3.40     6.23
3.16     NO                     NO
 L0001184         0   0.25253E-02  489214.9 3859017.5   684.6     3.40     6.23
3.16     NO                     NO
 L0001185         0   0.25253E-02  489215.0 3859004.1   684.6     3.40     6.23
3.16     NO                     NO
 L0001186         0   0.25253E-02  489215.0 3858990.7   684.6     3.40     6.23
3.16     NO                     NO
 L0001187         0   0.25253E-02  489215.1 3858977.3   684.6     3.40     6.23
3.16     NO                     NO
 L0001188         0   0.25253E-02  489215.1 3858963.9   684.8     3.40     6.23
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
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 L0001189         0   0.25253E-02  489215.2 3858950.5   684.9     3.40     6.23
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3.16     NO                    NO
 L0001190         0   0.25253E-02  489215.3 3858937.1   685.0     3.40     6.23
3.16     NO                    NO
 L0001191         0   0.25253E-02  489215.3 3858923.7   685.2     3.40     6.23
3.16     NO                    NO
 L0001192         0   0.25253E-02  489215.4 3858910.3   685.1     3.40     6.23
3.16     NO                    NO
 L0001193         0   0.25253E-02  489215.4 3858896.9   685.1     3.40     6.23
3.16     NO                    NO
 L0001194         0   0.25253E-02  489215.5 3858883.5   685.2     3.40     6.23
3.16     NO                    NO
 L0001195         0   0.25253E-02  489215.6 3858870.1   685.2     3.40     6.23
3.16     NO                    NO
 L0001196         0   0.25253E-02  489215.6 3858856.7   685.3     3.40     6.23
3.16     NO                    NO
 L0001197         0   0.25253E-02  489215.7 3858843.3   685.3     3.40     6.23
3.16     NO                    NO
 L0001198         0   0.25253E-02  489215.7 3858829.9   685.4     3.40     6.23
3.16     NO                    NO
 L0001199         0   0.25253E-02  489215.8 3858816.5   685.4     3.40     6.23
3.16     NO                    NO
 L0001200         0   0.25253E-02  489215.9 3858803.1   685.5     3.40     6.23
3.16     NO                    NO
 L0001201         0   0.25253E-02  489215.9 3858789.7   685.6     3.40     6.23
3.16     NO                    NO
 L0001202         0   0.25253E-02  489216.0 3858776.3   685.6     3.40     6.23
3.16     NO                    NO
 L0001203         0   0.25253E-02  489216.0 3858762.9   685.7     3.40     6.23
3.16     NO                    NO
 L0001204         0   0.25253E-02  489216.1 3858749.5   685.7     3.40     6.23
3.16     NO                    NO
 L0001205         0   0.25253E-02  489216.2 3858736.1   685.8     3.40     6.23
3.16     NO                    NO
 L0001206         0   0.25253E-02  489219.6 3858723.3   685.8     3.40     6.23
3.16     NO                    NO
 L0001207         0   0.25253E-02  489224.1 3858710.7   686.0     3.40     6.23
3.16     NO                    NO
 L0001208         0   0.25253E-02  489228.6 3858698.1   686.2     3.40     6.23
3.16     NO                    NO
 L0001209         0   0.25253E-02  489233.2 3858685.5   686.4     3.40     6.23
3.16     NO                    NO
 L0001210         0   0.25253E-02  489237.7 3858672.8   686.6     3.40     6.23
3.16     NO                    NO
 L0001211         0   0.25253E-02  489242.2 3858660.2   686.8     3.40     6.23
3.16     NO                    NO
 L0001212         0   0.25253E-02  489246.8 3858647.6   687.0     3.40     6.23
3.16     NO                    NO
 L0001213         0   0.25253E-02  489251.3 3858635.0   686.9     3.40     6.23
3.16     NO                    NO
 L0001214         0   0.25253E-02  489255.9 3858622.4   686.8     3.40     6.23
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3.16     NO                     NO
 L0001215         0   0.25253E-02  489260.4 3858609.8   686.9     3.40     6.23
3.16     NO                     NO
 L0001216         0   0.25253E-02  489264.9 3858597.2   687.2     3.40     6.23
3.16     NO                     NO
 L0001217         0   0.25253E-02  489269.5 3858584.6   687.4     3.40     6.23
3.16     NO                     NO
 L0001218         0   0.25253E-02  489274.0 3858572.0   687.3     3.40     6.23
3.16     NO                     NO
 L0001219         0   0.25253E-02  489278.6 3858559.4   687.2     3.40     6.23
3.16     NO                     NO
 L0001220         0   0.25253E-02  489283.1 3858546.8   687.4     3.40     6.23
3.16     NO                     NO
 L0001221         0   0.25253E-02  489287.6 3858534.2   687.4     3.40     6.23
3.16     NO                     NO
 L0001222         0   0.25253E-02  489297.1 3858524.7   687.3     3.19     6.23
3.16     NO                     NO
 L0001223         0   0.25253E-02  489306.6 3858515.2   687.6     2.97     6.23
3.16     NO                     NO
 L0001224         0   0.25253E-02  489316.0 3858505.7   687.9     2.76     6.23
3.16     NO                     NO
 L0001225         0   0.25253E-02  489325.5 3858496.2   688.0     2.55     6.23
3.16     NO                     NO
 L0001226         0   0.25253E-02  489335.0 3858486.8   688.1     2.33     6.23
3.16     NO                     NO
 L0001227         0   0.25253E-02  489344.5 3858477.3   688.2     2.12     6.23
3.16     NO                     NO
 L0001228         0   0.25253E-02  489353.9 3858467.8   688.2     1.91     6.23
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0001229         0   0.25253E-02  489363.4 3858458.3   688.5     1.69     6.23
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3.16 NO NO
L0001230 0 0.25253E-02 489372.9 3858448.9 688.6 1.48 6.23
3.16 NO NO
L0001231 0 0.25253E-02 489382.4 3858439.4 688.6 1.27 6.23
3.16 NO NO
L0001232 0 0.25253E-02 489391.8 3858429.9 688.8 1.05 6.23
3.16 NO NO
L0001233 0 0.25253E-02 489401.3 3858420.4 689.1 0.84 6.23
3.16 NO NO
L0001234 0 0.25253E-02 489410.8 3858411.0 689.1 0.63 6.23
3.16 NO NO
L0001235 0 0.25253E-02 489420.3 3858401.5 689.0 0.41 6.23
3.16 NO NO
L0001236 0 0.25253E-02 489429.7 3858392.0 689.2 0.20 6.23
3.16 NO NO
L0001237 0 0.25253E-02 489439.5 3858383.0 689.6 0.00 6.23
3.16 NO NO
L0001238 0 0.25253E-02 489452.4 3858379.6 689.9 0.00 6.23
3.16 NO NO
L0001239 0 0.25253E-02 489465.4 3858376.2 689.8 0.00 6.23
3.16 NO NO
L0001240 0 0.25253E-02 489478.3 3858372.7 689.7 0.00 6.23
3.16 NO NO
L0001241 0 0.25253E-02 489491.3 3858369.3 690.0 0.00 6.23
3.16 NO NO
L0001242 0 0.25253E-02 489504.3 3858365.9 690.3 0.00 6.23
3.16 NO NO
L0001243 0 0.25253E-02 489517.2 3858362.5 690.2 0.00 6.23
3.16 NO NO
L0001244 0 0.25253E-02 489530.2 3858359.1 690.3 0.00 6.23
3.16 NO NO
L0001245 0 0.25253E-02 489543.1 3858355.7 690.3 0.00 6.23
3.16 NO NO
L0001246 0 0.25253E-02 489556.1 3858352.3 690.4 0.00 6.23
3.16 NO NO
L0001247 0 0.25253E-02 489569.1 3858348.9 690.5 0.00 6.23
3.16 NO NO
L0001248 0 0.25253E-02 489582.0 3858345.5 690.5 0.00 6.23
3.16 NO NO
L0001249 0 0.25253E-02 489595.2 3858343.1 690.5 0.00 6.23
3.16 NO NO
L0001250 0 0.25253E-02 489608.5 3858342.3 690.5 0.00 6.23
3.16 NO NO
L0001251 0 0.25253E-02 489621.9 3858341.4 690.6 0.00 6.23
3.16 NO NO
L0001252 0 0.25253E-02 489635.3 3858340.6 690.7 0.00 6.23
3.16 NO NO
L0001253 0 0.25253E-02 489648.6 3858339.7 690.8 0.00 6.23
3.16 NO NO
L0001254 0 0.25253E-02 489662.0 3858338.8 690.9 0.00 6.23

3.16   NO   NO
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3.16   NO   NO
 L0001256   0   0.25253E-02 489688.8 3858337.1   691.1   0.00   6.23
3.16   NO   NO
 L0001257   0   0.25253E-02 489702.1 3858336.2   691.1   0.00   6.23
3.16   NO   NO
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3.16   NO   NO
 L0001259   0   0.25253E-02 489728.9 3858334.5   691.4   0.00   6.23
3.16   NO   NO
 L0001260   0   0.25253E-02 489742.2 3858333.7   691.5   0.00   6.23
3.16   NO   NO
 L0001261   0   0.25253E-02 489755.6 3858332.8   691.6   0.00   6.23
3.16   NO   NO
 L0001262   0   0.25253E-02 489769.0 3858331.9   691.6   0.00   6.23
3.16   NO   NO
 L0001263   0   0.25253E-02 489782.4 3858331.1   691.7   0.00   6.23
3.16   NO   NO
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3.16   NO   NO
 L0001265   0   0.25253E-02 489809.1 3858329.3   691.9   0.00   6.23
3.16   NO   NO
 L0001266   0   0.25253E-02 489822.5 3858328.5   692.1   0.00   6.23
3.16   NO   NO
 L0001267   0   0.25253E-02 489835.9 3858327.6   692.2   0.00   6.23
3.16   NO   NO
 L0001268   0   0.25253E-02 489849.3 3858327.4   692.3   0.00   6.23
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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3.16     NO                    NO
 L0001270         0   0.25253E-02  489876.0 3858326.8   692.5     0.00     6.23
3.16     NO                    NO
 L0001271         0   0.25253E-02  489889.4 3858326.5   692.7     0.00     6.23
3.16     NO                    NO
 L0001272         0   0.25253E-02  489902.8 3858326.2   692.8     0.00     6.23
3.16     NO                    NO
 L0001273         0   0.25253E-02  489916.2 3858326.0   692.8     0.00     6.23
3.16     NO                    NO
 L0001274         0   0.25253E-02  489929.6 3858325.7   692.8     0.00     6.23
3.16     NO                    NO
 L0001275         0   0.25253E-02  489943.0 3858325.4   692.9     0.00     6.23
3.16     NO                    NO
 L0001276         0   0.25253E-02  489956.4 3858325.1   692.9     0.00     6.23
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0001281         0   0.25253E-02  490023.4 3858323.8   693.5     0.00     6.23
3.16     NO                    NO
 L0001282         0   0.25253E-02  490036.8 3858323.5   693.6     0.00     6.23
3.16     NO                    NO
 L0001283         0   0.25253E-02  490050.2 3858323.2   693.8     0.00     6.23
3.16     NO                    NO
 L0001284         0   0.25253E-02  490063.6 3858322.9   693.9     0.00     6.23
3.16     NO                    NO
 L0001285         0   0.25253E-02  490077.0 3858322.7   694.0     0.00     6.23
3.16     NO                    NO
 L0001286         0   0.25253E-02  490090.4 3858322.4   694.1     0.00     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0001288         0   0.25253E-02  490117.2 3858321.8   694.1     0.00     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0001290         0   0.25253E-02  490144.0 3858321.3   694.4     0.00     6.23
3.16     NO                    NO
 L0001291         0   0.25253E-02  490157.4 3858321.0   694.5     0.00     6.23
3.16     NO                    NO
 L0001292         0   0.25253E-02  490170.8 3858320.7   694.6     0.00     6.23
3.16     NO                    NO
 L0001293         0   0.25253E-02  490184.2 3858320.4   694.7     0.00     6.23
3.16     NO                    NO
 L0001294         0   0.25253E-02  490197.6 3858320.2   694.7     0.00     6.23
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3.16     NO                     NO
 L0001295         0   0.25253E-02  490211.0 3858319.9   694.8     0.00     6.23
3.16     NO                     NO
 L0001296         0   0.25253E-02  490224.4 3858319.6   694.9     0.00     6.23
3.16     NO                     NO
 L0001297         0   0.25253E-02  490237.8 3858319.3   694.9     0.00     6.23
3.16     NO                     NO
 L0001298         0   0.25253E-02  490251.2 3858319.1   695.1     0.00     6.23
3.16     NO                     NO
 L0001299         0   0.25253E-02  490264.6 3858318.8   695.2     0.00     6.23
3.16     NO                     NO
 L0001300         0   0.25253E-02  490278.0 3858318.5   695.2     0.00     6.23
3.16     NO                     NO
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3.16     NO                     NO
 L0001302         0   0.25253E-02  490304.8 3858318.0   695.5     0.00     6.23
3.16     NO                     NO
 L0001303         0   0.25253E-02  490318.2 3858317.7   695.6     0.00     6.23
3.16     NO                     NO
 L0001304         0   0.25253E-02  490331.5 3858317.4   695.7     0.00     6.23
3.16     NO                     NO
 L0001305         0   0.25253E-02  490344.9 3858317.1   695.9     0.00     6.23
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0001308         0   0.25253E-02  490385.1 3858316.3   696.2     0.00     6.23
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0001309         0   0.25253E-02  490398.5 3858316.0   696.3     0.00     6.23
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3.16     NO                    NO
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3.16     NO                    NO
 L0001311         0   0.25253E-02  490425.3 3858315.5   696.5     0.00     6.23
3.16     NO                    NO
 L0001312         0   0.25253E-02  490438.7 3858315.2   696.6     0.00     6.23
3.16     NO                    NO
 L0001313         0   0.25253E-02  490452.1 3858314.9   696.7     0.00     6.23
3.16     NO                    NO
 L0001314         0   0.25253E-02  490465.5 3858314.6   696.8     0.00     6.23
3.16     NO                    NO
 L0001315         0   0.25253E-02  490478.9 3858314.4   697.0     0.00     6.23
3.16     NO                    NO
 L0001316         0   0.25253E-02  490492.3 3858314.1   697.1     0.00     6.23
3.16     NO                    NO
 L0001317         0   0.25253E-02  490505.7 3858313.8   697.2     0.00     6.23
3.16     NO                    NO
 L0001318         0   0.25253E-02  490519.1 3858313.5   697.3     0.00     6.23
3.16     NO                    NO
 L0001319         0   0.25253E-02  490532.5 3858313.3   697.5     0.00     6.23
3.16     NO                    NO
 L0001320         0   0.25253E-02  490545.9 3858313.0   697.6     0.00     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0001322         0   0.25253E-02  490572.7 3858312.4   697.9     0.00     6.23
3.16     NO                    NO
 L0001323         0   0.25253E-02  490586.1 3858312.2   698.1     0.00     6.23
3.16     NO                    NO
 L0001324         0   0.25253E-02  490599.5 3858311.9   698.2     0.00     6.23
3.16     NO                    NO
 L0001325         0   0.25253E-02  490612.9 3858311.1   698.4     0.00     6.23
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0001330         0   0.25253E-02  490679.6 3858305.1   699.2     0.00     6.23
3.16     NO                    NO
 L0001331         0   0.25253E-02  490692.9 3858303.8   699.3     0.00     6.23
3.16     NO                    NO
 L0001332         0   0.25253E-02  490706.3 3858302.6   699.4     0.00     6.23
3.16     NO                    NO
 L0001333         0   0.25253E-02  490719.6 3858301.4   699.6     0.00     6.23
3.16     NO                    NO
 L0001334         0   0.25253E-02  490733.0 3858300.2   699.7     0.00     6.23
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT EMISSION RATE SCALAR VARY BY
L0001349	0	0.25253E-02	490925.4	3858256.6	700.7	0.00	6.23			

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3.16     NO                    NO
 L0001350         0   0.25253E-02  490937.2 3858250.2   701.1     0.00     6.23
3.16     NO                    NO
 L0001351         0   0.25253E-02  490949.0 3858243.8   701.5     0.00     6.23
3.16     NO                    NO
 L0001352         0   0.25253E-02  490960.7 3858237.4   701.5     0.00     6.23
3.16     NO                    NO
 L0001353         0   0.25253E-02  490972.5 3858231.0   701.5     0.00     6.23
3.16     NO                    NO
 L0001354         0   0.25253E-02  490984.2 3858224.5   701.7     0.00     6.23
3.16     NO                    NO
 L0001355         0   0.25253E-02  490996.0 3858218.1   701.9     0.00     6.23
3.16     NO                    NO
 L0001356         0   0.25253E-02  491007.8 3858211.7   702.1     0.00     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0001358         0   0.25253E-02  491031.3 3858198.9   702.4     0.00     6.23
3.16     NO                    NO
 L0001359         0   0.25253E-02  491043.0 3858192.4   702.8     0.00     6.23
3.16     NO                    NO
 L0001360         0   0.25253E-02  491051.9 3858182.3   703.2     0.00     6.23
3.16     NO                    NO
 L0001361         0   0.25253E-02  491060.8 3858172.3   703.3     0.00     6.23
3.16     NO                    NO
 L0001362         0   0.25253E-02  491069.7 3858162.3   703.6     0.00     6.23
3.16     NO                    NO
 L0001363         0   0.25253E-02  491078.6 3858152.3   704.0     0.00     6.23
3.16     NO                    NO
 L0001364         0   0.25253E-02  491087.5 3858142.3   704.2     0.00     6.23
3.16     NO                    NO
 L0001365         0   0.25253E-02  491096.4 3858132.3   704.5     0.00     6.23
3.16     NO                    NO
 L0001366         0   0.25253E-02  491105.3 3858122.2   704.9     0.00     6.23
3.16     NO                    NO
 L0001367         0   0.25253E-02  491114.2 3858112.2   705.3     0.00     6.23
3.16     NO                    NO
 L0001368         0   0.25253E-02  491123.1 3858102.2   705.6     0.00     6.23
3.16     NO                    NO
 L0001369         0   0.25253E-02  491132.0 3858092.2   705.9     0.00     6.23
3.16     NO                    NO
 L0001370         0   0.25253E-02  491140.9 3858082.2   706.4     0.00     6.23
3.16     NO                    NO
 L0001371         0   0.25253E-02  491149.8 3858072.2   706.6     0.00     6.23
3.16     NO                    NO
 L0001372         0   0.25253E-02  491158.7 3858062.2   706.9     0.00     6.23
3.16     NO                    NO
 L0001373         0   0.25253E-02  491167.6 3858052.1   707.5     0.00     6.23
3.16     NO                    NO
 L0001374         0   0.25253E-02  491175.1 3858041.1   707.7     0.00     6.23
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3.16     NO                     NO
 L0001375         0   0.25253E-02  491182.2 3858029.7   707.9     0.00     6.23
3.16     NO                     NO
 L0001376         0   0.25253E-02  491189.3 3858018.3   708.6     0.00     6.23
3.16     NO                     NO
 L0001377         0   0.25253E-02  491196.3 3858006.9   708.7     0.00     6.23
3.16     NO                     NO
 L0001378         0   0.25253E-02  491203.4 3857995.5   708.4     0.00     6.23
3.16     NO                     NO
 L0001379         0   0.25253E-02  491210.5 3857984.2   708.8     0.00     6.23
3.16     NO                     NO
 L0001380         0   0.25253E-02  491217.5 3857972.8   708.7     0.00     6.23
3.16     NO                     NO
 L0001381         0   0.25253E-02  491224.6 3857961.4   708.6     0.00     6.23
3.16     NO                     NO
 L0001382         0   0.25253E-02  491231.7 3857950.0   708.8     0.00     6.23
3.16     NO                     NO
 L0001383         0   0.25253E-02  491238.7 3857938.6   709.5     0.00     6.23
3.16     NO                     NO
 L0001384         0   0.25253E-02  491245.8 3857927.2   709.6     0.00     6.23
3.16     NO                     NO
 L0001385         0   0.25253E-02  491252.9 3857915.8   709.1     0.00     6.23
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0001389         0   0.25253E-02  491281.1 3857870.3   708.5     0.00     6.23
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3.16     NO                    NO
 L0001390         0   0.25253E-02  491288.2 3857858.9   708.7     0.00     6.23
3.16     NO                    NO
 L0001391         0   0.25253E-02  491295.2 3857847.5   708.6     0.00     6.23
3.16     NO                    NO
 L0001392         0   0.25253E-02  491302.3 3857836.1   708.5     0.00     6.23
3.16     NO                    NO
 L0001393         0   0.25253E-02  491309.4 3857824.8   708.6     0.00     6.23
3.16     NO                    NO
 L0001394         0   0.25253E-02  491316.4 3857813.4   708.6     0.00     6.23
3.16     NO                    NO
 L0001395         0   0.25253E-02  491323.5 3857802.0   708.7     0.00     6.23
3.16     NO                    NO
 L0001396         0   0.25253E-02  491330.6 3857790.6   708.7     0.00     6.23
3.16     NO                    NO
 L0001397         0   0.25253E-02  491337.6 3857779.2   708.8     0.00     6.23
3.16     NO                    NO
 L0001398         0   0.25253E-02  491344.7 3857767.8   708.9     0.00     6.23
3.16     NO                    NO
 L0001399         0   0.25253E-02  491351.8 3857756.4   708.9     0.00     6.23
3.16     NO                    NO
 L0001400         0   0.25253E-02  491358.8 3857745.0   709.0     0.00     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0001402         0   0.25253E-02  491372.9 3857722.3   709.1     0.00     6.23
3.16     NO                    NO
 L0001403         0   0.25253E-02  491380.0 3857710.9   709.1     0.00     6.23
3.16     NO                    NO
 L0001404         0   0.25253E-02  491387.1 3857699.5   709.3     0.00     6.23
3.16     NO                    NO
 L0001405         0   0.25253E-02  491394.1 3857688.1   709.3     0.00     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0001407         0   0.25253E-02  491408.3 3857665.3   709.5     0.00     6.23
3.16     NO                    NO
 L0001408         0   0.25253E-02  491415.3 3857654.0   709.5     0.00     6.23
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 L0001409         0   0.25253E-02  491422.4 3857642.6   709.5     0.00     6.23
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0001423         0   0.25253E-02  491521.3 3857483.2   710.8     0.00     6.23
3.16     NO                     NO
 L0001424         0   0.25253E-02  491528.4 3857471.8   711.0     0.00     6.23
3.16     NO                     NO
 L0001425         0   0.25253E-02  491535.4 3857460.4   711.0     0.00     6.23
3.16     NO                     NO
 L0001426         0   0.25253E-02  491542.5 3857449.0   711.1     0.00     6.23
3.16     NO                     NO
 L0001427         0   0.25253E-02  491549.6 3857437.6   711.1     0.00     6.23
3.16     NO                     NO
 L0001428         0   0.25253E-02  491556.6 3857426.2   711.1     0.00     6.23
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

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3.16     NO                    NO
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3.16     NO                    NO
 L0001433         0   0.25253E-02  491592.0 3857369.3   711.5     0.00     6.23
3.16     NO                    NO
 L0001434         0   0.25253E-02  491599.0 3857357.9   711.7     0.00     6.23
3.16     NO                    NO
 L0001435         0   0.25253E-02  491606.1 3857346.5   711.8     0.00     6.23
3.16     NO                    NO
 L0001436         0   0.25253E-02  491613.1 3857335.1   711.9     0.00     6.23
3.16     NO                    NO
 L0001437         0   0.25253E-02  491620.2 3857323.7   712.2     0.00     6.23
3.16     NO                    NO
 L0001438         0   0.25253E-02  491627.3 3857312.4   712.3     0.00     6.23
3.16     NO                    NO
 L0001439         0   0.25253E-02  491634.3 3857301.0   712.2     0.00     6.23
3.16     NO                    NO
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3.16     NO                    NO
 L0001441         0   0.25253E-02  491648.5 3857278.2   712.6     0.00     6.23
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 L0001442         0   0.25253E-02  491655.5 3857266.8   712.3     0.00     6.23
3.16     NO                    NO
 L0001443         0   0.25253E-02  491662.6 3857255.4   712.2     0.00     6.23
3.16     NO                    NO
 L0001444         0   0.25253E-02  491669.7 3857244.0   712.5     0.00     6.23
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                              SOURCE IDs
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  LOADING1   L0000149    , L0000150    , L0000151    , L0000152    , L0000153    ,
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L0000189    , L0000190    , L0000191    ,

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                SOURCE IDs
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 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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TRUCK2	L0000539 , L0000540 , L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 ,
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	L0000579 , L0000580 , L0000581 , L0000582 , L0000583 , L0000584 , L0000585 , L0000586 ,
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	L0000603 , L0000604 , L0000605 , L0000606 , L0000607 , L0000608 , L0000609 , L0000610 ,
	L0000611 , L0000612 , L0000613 , L0000614 , L0000615 , L0000616 , L0000617 , L0000618 ,
	L0000619 , L0000620 , L0000621 , L0000622 , L0000623 , L0000624 , L0000625 , L0000626 ,
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                SOURCE IDs
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L0000938    , L0000939    , L0000940    ,

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                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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                                   PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                              SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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                                  PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0000773 , L0000774 , L0000775 , L0000776 , L0000777 ,
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             L0000813    , L0000814    , L0000815    , L0000816    , L0000817    ,
L0000818    , L0000819    , L0000820    ,

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                              SOURCE IDs
 -----------                                              ----------


             L0000861    , L0000862    , L0000863    , L0000864    , L0000865    ,
L0000866    , L0000867    , L0000868    ,

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L0000882    , L0000883    , L0000884    ,

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L0000890    , L0000891    , L0000892    ,

            L0000893    , L0000894    , L0000895    , L0000896    , L0000897    ,
L0000898    , L0000899    , L0000900    ,

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L0000906    , L0000907    , L0000908    ,

            L0000909    , L0000910    , L0000911    , L0000912    , L0000913    ,
L0000914    , L0000915    , L0000916    ,

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L0000922    , L0000923    , L0000924    ,

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L0000970    , L0000971    , L0000972    ,

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            L0000981    , L0000982    , L0000983    , L0000984    , L0000985    ,
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L0000994    , L0000995    , L0000996    ,

            L0000997    , L0000998    , L0000999    , L0001000    , L0001001    ,
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L0001018   , L0001019   , L0001020   ,

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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             L0001021   , L0001022   , L0001023   , L0001024   , L0001025   ,
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             L0001053   , L0001054   , L0001055   , L0001056   , L0001057   ,
L0001058   , L0001059   , L0001060   ,

             L0001061   , L0001062   , L0001063   , L0001064   , L0001065   ,
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             L0001093   , L0001094   , L0001095   , L0001096   , L0001097   ,
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             L0001133    , L0001134    , L0001135    , L0001136    , L0001137    ,
L0001138    , L0001139    , L0001140    ,

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L0001146    , L0001147    , L0001148    ,

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L0001154    , L0001155    , L0001156    ,

             L0001157    , L0001158    , L0001159    , L0001160    , L0001161    ,
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             L0001165    , L0001166    , L0001167    , L0001168    , L0001169    ,
L0001170    , L0001171    , L0001172    ,

             L0001173    , L0001174    , L0001175    , L0001176    , L0001177    ,
L0001178    , L0001179    , L0001180    ,
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                 SOURCE IDs
 -----------                                                 ----------


             L0001181    , L0001182    , L0001183    , L0001184    , L0001185    ,
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0001458 , L0001459 , L0001460 ,

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L0001466 , L0001467 , L0001468 ,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

489237.3, 489256.6, 489275.9, 489295.2, 489314.5, 489333.8, 489353.1,
489372.4, 489391.7, 489411.0,
489430.3, 489449.6, 489468.9, 489488.2, 489507.5, 489526.8, 489546.1,
489565.4, 489584.7, 489604.0,
489623.3,

*** Y-COORDINATES OF GRID ***
(METERS)

3859568.7, 3859588.1, 3859607.5, 3859626.9, 3859646.4, 3859665.8, 3859685.2,
3859704.6, 3859724.0, 3859743.4,
3859762.9, 3859782.3, 3859801.7, 3859821.1, 3859840.5, 3859860.0, 3859879.4,
3859898.8, 3859918.2, 3859937.6,
3859957.1,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	489237.26	489256.56	489275.86	489295.16	489314.46	489333.76	489353.06	489372.36	489391.66	
3859957.07	679.90	680.50	680.50	680.60	680.90	681.30	681.60	682.10	682.80	
3859937.65	679.60	680.30	680.40	680.50	680.80	681.00	681.20	681.60	682.20	
3859918.23	679.70	680.30	680.40	680.70	680.80	680.90	681.10	681.60	682.20	
3859898.81	679.60	680.10	680.20	680.40	680.50	680.60	680.80	681.20	681.70	
3859879.39	679.40	679.80	679.70	679.80	680.00	680.10	680.40	680.70	681.10	
3859859.97	679.30	679.70	679.70	679.80	680.00	680.10	680.30	680.50	680.90	
3859840.55	679.30	679.70	679.80	679.90	680.00	680.10	680.30	680.40	680.70	
3859821.13	679.40	679.80	680.10	680.20	680.20	680.30	680.40	680.50	680.60	
3859801.71	679.60	680.00	680.10	680.30	680.20	680.10	680.40	680.40	680.40	
3859782.29	679.70	680.10	680.10	680.50	680.30	680.10	680.40	680.40	680.40	
3859762.87	679.70	680.10	680.20	680.50	680.50	680.50	680.50	680.90	680.90	
3859743.45	679.70	680.10	680.30	680.50	680.60	680.60	680.70	680.90	681.00	
3859724.03	679.80	680.10	680.30	680.50	680.60	680.70	680.80	680.80	680.90	
3859704.61	679.90	680.30	680.30	680.50	680.50	680.50	680.60	680.70	680.80	
3859685.19	680.00	680.30	680.20	680.30	680.30	680.40	680.60	680.80	680.90	
3859665.77	680.00	680.20	680.10	680.00	680.10	680.30	680.60	681.00	681.20	
3859646.35	680.10	680.30	680.40	680.30	680.50	680.60	680.80	681.00	681.20	
3859626.93	680.20	680.40	680.70	680.60	680.80	680.90	680.90	681.00	681.30	
3859607.51	680.30	680.50	680.70	680.80	680.90					

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	489410.96	489430.26	489449.56	489468.86	489488.16	489507.46	489526.76	489546.06	489565.36	
3859957.07	683.50	684.10	685.00	685.60	686.40	687.10	687.20	687.30	687.50	
3859937.65	682.80	683.30	684.00	684.40	684.60	684.90	684.80	684.90	685.20	
3859918.23	682.90	683.70	684.10	684.20	684.40	684.60	684.50	684.70	685.00	
3859898.81	682.40	683.10	683.80	684.20	684.30	684.20	684.10	684.50	684.70	
3859879.39	681.50	682.00	683.30	684.20	684.20	683.60	683.60	684.20	684.30	
3859859.97	681.20	681.50	682.20	682.90	683.10	682.90	683.00	683.50	683.50	
3859840.55	681.00	681.20	681.60	682.00	682.40	682.60	682.80	683.00	683.10	
3859821.13	680.80	681.20	681.60	681.80	682.10	682.60	682.80	682.90	683.00	
3859801.71	680.50	680.80	681.20	681.60	681.90	682.30	682.60	682.80	682.80	
3859782.29	680.40	680.50	680.80	681.30	681.80	682.10	682.40	682.70	682.70	
3859762.87	680.80	680.80	680.60	680.90	681.70	682.50	682.30	682.50	682.60	
3859743.45	681.00	680.90	680.60	680.90	681.60	682.50	682.10	682.40	682.50	
3859724.03	681.00	681.00	680.70	681.00	681.60	682.40	682.00	682.30	682.50	

  3859957.07 | 688.10   689.30   690.80
  3859937.65 | 685.80   686.60   688.50
  3859918.23 | 685.40   685.80   687.20
  3859898.81 | 684.80   685.20   686.10
  3859879.39 | 684.20   684.70   685.10
  3859859.97 | 683.50   684.20   684.40
  3859840.55 | 683.10   683.70   683.70
  3859821.13 | 683.10   683.10   683.20
  3859801.71 | 682.80   682.90   682.80
  3859782.29 | 682.60   682.80   682.50
  3859762.87 | 682.60   682.80   682.10
  3859743.45 | 682.60   682.70   681.90
  3859724.03 | 682.50   682.50   681.80
  3859704.61 | 682.40   682.40   681.80
  3859685.19 | 682.30   682.40   681.90
  3859665.77 | 682.30   682.40   682.00

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)														
	489237.26	489256.56	489275.86	489295.16	489314.46	489333.76	489353.06	489372.36	489391.66						
3859957.07	679.90	680.50	680.50	680.60	680.90	681.30	681.60	682.10	682.80						
3859937.65	679.60	680.30	680.40	680.50	680.80	681.00	681.20	681.60	682.20						
3859918.23	679.70	680.30	680.40	680.70	680.80	680.90	681.10	681.60	682.20						
3859898.81	679.60	680.10	680.20	680.40	680.50	680.60	680.80	681.20	681.70						
3859879.39	679.40	679.80	679.70	679.80	680.00	680.10	680.40	680.70	681.10						
3859859.97	679.30	679.70	679.70	679.80	680.00	680.10	680.30	680.50	680.90						
3859840.55	679.30	679.70	679.80	679.90	680.00	680.10	680.30	680.40	680.70						
3859821.13	679.40	679.80	680.10	680.20	680.20	680.30	680.40	680.50	680.60						
3859801.71	679.60	680.00	680.10	680.30	680.20	680.10	680.40	680.40	680.40						
3859782.29	679.70	680.10	680.10	680.50	680.30	680.10	680.40	680.40	680.40						
3859762.87	679.70	680.10	680.20	680.50	680.50	680.50	680.50	680.90	680.90						
3859743.45	679.70	680.10	680.30	680.50	680.60	680.60	680.70	680.90	681.00						
3859724.03	679.80	680.10	680.30	680.50	680.60	680.70	680.80	680.80	680.90						

```
  682.60       682.80       682.90       683.00
  3859801.71 |       680.50       680.80       681.20       681.60       681.90
  682.30       682.60       682.80       682.80
  3859782.29 |       680.40       680.50       680.80       681.30       681.80
  682.10       682.40       682.70       682.70
  3859762.87 |       680.80       680.80       680.60       680.90       681.70
  682.50       682.30       682.50       682.60
  3859743.45 |       681.00       680.90       680.60       680.90       681.60
  682.50       682.10       682.40       682.50
  3859724.03 |       681.00       681.00       680.70       681.00       681.60
  682.40       682.00       682.30       682.50
  3859704.61 |       680.80       680.90       680.70       680.90       681.60
  682.30       681.90       682.20       682.40
  3859685.19 |       680.90       680.90       680.80       681.00       681.60
  682.20       681.80       682.10       682.30
  3859665.77 |       681.20       681.20       681.00       681.10       681.60
  682.10       681.70       682.10       682.20
  3859646.35 |       681.40       681.40       681.10       681.20       681.70
  682.10       681.60       682.00       682.20
  3859626.93 |       681.50       681.60       681.20       681.30       681.60
  681.80       681.60       681.80       682.00
  3859607.51 |       681.50       681.50       681.30       681.20       681.30
  681.40       681.40       681.60       681.70
  3859588.09 |       681.70       681.70       681.70       681.70       681.70
  681.70       681.80       681.90       681.80
  3859568.67 |       681.80       682.00       682.10       682.20       682.20
  682.10       682.30       682.30       682.10
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                 *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART
***

                                              * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     489584.66    489603.96    489623.26
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3859957.07 |        693.30       693.30       693.30
  3859937.65 |        693.30       693.30       693.30
  3859918.23 |        693.30       693.30       693.30
  3859898.81 |        684.80       693.30       686.10
  3859879.39 |        684.20       684.70       685.10
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  3859859.97 |        683.50       684.20       684.40
  3859840.55 |        683.10       683.70       683.70
  3859821.13 |        683.10       683.10       683.20
  3859801.71 |        682.80       682.90       682.80
  3859782.29 |        682.60       682.80       682.50
  3859762.87 |        682.60       682.80       682.10
  3859743.45 |        682.60       682.70       681.90
  3859724.03 |        682.50       682.50       681.80
  3859704.61 |        682.40       682.40       681.80
  3859685.19 |        682.30       682.40       681.90
  3859665.77 |        682.30       682.40       682.00
  3859646.35 |        682.30       682.40       682.10
  3859626.93 |        682.10       682.30       682.20
  3859607.51 |        681.80       682.20       682.30
  3859588.09 |        681.90       682.20       682.40
  3859568.67 |        682.00       682.20       682.60
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***       01:16:45

                                  PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                       *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE: GRIDCART
***

                                         *** X-COORDINATES OF GRID ***
                                                  (METERS)

       489260.3,  489285.0,  489309.6,  489334.3,  489358.9,  489383.6,  489408.2,
489432.9,  489457.5,  489482.2,
       489506.8,  489531.5,  489556.1,  489580.8,  489605.4,  489630.1,  489654.7,
489679.4,  489704.0,  489728.7,
       489753.3,

                                         *** Y-COORDINATES OF GRID ***
                                                  (METERS)

      3858742.0, 3858763.6, 3858785.2, 3858806.7, 3858828.3, 3858849.9, 3858871.4,
3858893.0, 3858914.6, 3858936.1,
      3858957.7, 3858979.3, 3859000.9, 3859022.4, 3859044.0, 3859065.6, 3859087.1,
3859108.7, 3859130.3, 3859151.9,
      3859173.4,
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***       01:16:45
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) | | |

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	489482.19	489506.84	489531.49	489556.14	489580.79
	489605.44	489630.09	489654.74	489679.39	
3859173.42	685.20	685.40	685.60	685.40	685.60
	685.60	685.60	685.60	685.50	
3859151.85	685.20	685.50	685.70	685.70	685.70
	685.50	685.60	685.60	685.60	
3859130.28	685.30	685.60	685.70	685.80	685.70
	685.60	685.70	685.70	685.80	
3859108.71	685.40	685.70	685.80	685.80	685.80
	685.90	685.80	686.00	686.00	
3859087.14	685.50	685.50	685.80	685.80	686.00
	686.10	686.00	686.10	686.10	
3859065.57	685.50	685.60	685.80	686.00	686.10
	686.30	686.20	686.30	686.30	
3859044.00	685.60	685.80	685.80	686.10	686.20
	686.40	686.30	686.40	686.50	
3859022.43	685.80	685.90	686.00	686.00	686.30
	686.50	686.50	686.60	686.70	
3859000.86	685.80	686.10	686.10	686.10	686.40
	686.60	686.60	686.70	686.90	
3858979.29	685.90	686.20	686.30	686.30	686.40
	686.60	686.70	686.90	687.10	
3858957.72	686.00	686.20	686.40	686.60	686.40
	686.60	686.90	687.00	687.20	
3858936.15	686.20	686.30	686.50	686.70	686.70
	686.80	687.00	687.10	687.40	

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	489704.04	489728.69	489753.34
3859173.42	685.50	685.50	685.60
3859151.85	685.70	685.70	685.80
3859130.28	685.90	685.90	686.00
3859108.71	686.00	686.20	686.30
3859087.14	686.20	686.30	686.30
3859065.57	686.30	686.40	686.40
3859044.00	686.50	686.60	686.60
3859022.43	686.70	686.80	686.80
3859000.86	687.00	687.10	687.00
3858979.29	687.20	687.30	687.20
3858957.72	687.20	687.30	687.50
3858936.15	687.40	687.50	687.70
3858914.58	687.60	687.70	687.90
3858893.01	687.70	687.90	688.00

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)														
	489260.34	489284.99	489309.64	489334.29	489358.94	489383.59	489408.24	489432.89	489457.54						
3859173.42	684.30	684.80	684.30	684.10	684.30	684.30	684.40	684.60	684.90						
3859151.85	684.40	684.30	684.20	684.20	684.40	684.40	684.50	684.70	685.00						
3859130.28	684.30	684.10	684.20	684.30	684.50	684.60	684.60	684.90	685.10						
3859108.71	684.20	684.10	684.30	684.50	684.70	684.70	684.70	685.10	685.30						
3859087.14	684.20	684.30	684.40	684.60	684.80	684.70	684.90	685.20	685.50						
3859065.57	684.30	684.40	684.50	684.80	684.90	684.90	685.20	685.30	685.50						
3859044.00	684.50	684.60	684.70	684.90	685.10	685.10	685.40	685.40	685.50						
3859022.43	684.60	684.70	684.80	685.00	685.20	685.20	685.30	685.40	685.60						
3859000.86	684.90	684.90	684.90	685.10	685.30	685.40	685.50	685.50	685.70						
3858979.29	685.10	685.10	685.00	685.20	685.40	685.60	685.60	685.60	685.70						
3858957.72	685.10	685.10	685.20	685.20	685.40	685.60	685.70	685.70	685.70						
3858936.15	685.20	685.20	685.30	685.40	685.60	685.80	685.90	686.00	686.00						
3858871.44	687.80	688.10	688.20												
3858849.87	688.00	688.20	688.30												
3858828.30	688.10	688.30	688.50												
3858806.73	688.20	688.40	688.50												
3858785.16	688.50	688.60	688.60												
3858763.59	688.70	688.80	688.80												
3858742.02	688.60	689.00	689.00												

  3859173.42 | 685.20   685.40   685.60   685.40   685.60
  685.60   685.60   685.60   685.50
  3859151.85 | 685.20   685.50   685.70   685.70   685.70
  685.50   685.60   685.60   685.60
  3859130.28 | 685.30   685.60   685.70   685.80   685.70
  685.60   685.70   685.70   685.80
  3859108.71 | 685.40   685.70   685.80   685.80   685.80
  685.90   685.80   686.00   686.00
  3859087.14 | 685.50   685.50   685.80   685.80   686.00
  686.10   686.00   686.10   686.10
  3859065.57 | 685.50   685.60   685.80   686.00   686.10
  686.30   686.20   686.30   686.30
  3859044.00 | 685.60   685.80   685.80   686.10   686.20

```
  686.40       686.30       686.40       686.50
  3859022.43 |        685.80       685.90       686.00       686.00       686.30
  686.50       686.50       686.60       686.70
  3859000.86 |        685.80       686.10       686.10       686.10       686.40
  686.60       686.60       686.70       686.90
  3858979.29 |        685.90       686.20       686.30       686.30       686.40
  686.60       686.70       686.90       687.10
  3858957.72 |        686.00       686.20       686.40       686.60       686.40
  686.60       686.90       687.00       687.20
  3858936.15 |        686.20       686.30       686.50       686.70       686.70
  686.80       687.00       687.10       687.40
  3858914.58 |        686.30       686.30       686.50       686.80       687.00
  687.00       687.10       687.30       687.50
  3858893.01 |        686.40       686.30       686.60       686.80       687.10
  687.30       687.20       687.40       687.60
  3858871.44 |        686.60       686.70       686.90       687.00       687.20
  687.50       687.40       687.60       687.70
  3858849.87 |        686.80       686.90       687.00       687.10       687.30
  687.50       687.50       687.80       687.90
  3858828.30 |        686.90       687.00       687.20       687.20       687.30
  687.60       687.60       687.90       688.00
  3858806.73 |        687.00       687.20       687.40       687.40       687.40
  687.70       687.90       688.10       688.10
  3858785.16 |        687.30       687.40       687.60       687.70       687.70
  687.90       688.00       688.40       688.30
  3858763.59 |        687.50       687.60       687.80       687.90       687.90
  688.10       688.10       688.50       688.50
  3858742.02 |        687.60       687.80       687.80       687.90       688.10
  688.50       688.10       688.40       688.50
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                 *** NETWORK ID: UCART2   ;  NETWORK TYPE: GRIDCART
***

                                          * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     489704.04    489728.69    489753.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3859173.42 |        685.50       685.50       685.60
  3859151.85 |        685.70       685.70       685.80
  3859130.28 |        685.90       685.90       686.00
```

3859108.71	686.00	686.20	686.30
3859087.14	686.20	686.30	686.30
3859065.57	686.30	686.40	686.40
3859044.00	686.50	686.60	686.60
3859022.43	686.70	686.80	686.80
3859000.86	687.00	687.10	687.00
3858979.29	687.20	687.30	687.20
3858957.72	687.20	687.30	687.50
3858936.15	687.40	687.50	687.70
3858914.58	687.60	687.70	687.90
3858893.01	687.70	687.90	688.00
3858871.44	687.80	688.10	688.20
3858849.87	688.00	688.20	688.30
3858828.30	688.10	688.30	688.50
3858806.73	688.20	688.40	688.50
3858785.16	688.50	688.60	688.60
3858763.59	688.70	688.80	688.80
3858742.02	688.60	689.00	689.00

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

488584.7, 488614.5, 488644.3, 488674.1, 488703.9, 488733.8, 488763.6, 488793.4, 488823.2, 488853.0,
488882.9, 488912.7, 488942.5, 488972.3, 489002.1, 489032.0, 489061.8, 489091.6, 489121.4, 489151.2,
489181.1,

*** Y-COORDINATES OF GRID ***
(METERS)

3858406.4, 3858431.3, 3858456.2, 3858481.2, 3858506.1, 3858531.0, 3858556.0, 3858580.9, 3858605.8, 3858630.8,
3858655.7, 3858680.6, 3858705.5, 3858730.5, 3858755.4, 3858780.3, 3858805.3, 3858830.2, 3858855.1, 3858880.0,
3858905.0,

                                *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                                * ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	488584.66	488614.48	488644.30	488674.12	488703.94	488733.76	488763.58	488793.40	488823.22	
3858904.98	680.60	680.80	681.20	681.40	681.70	682.00	682.60	682.40	682.60	
3858880.05	680.70	681.00	681.30	681.40	682.00	682.50	682.50	682.60	682.40	
3858855.12	680.90	681.00	681.50	681.80	682.10	682.70	682.00	682.50	682.60	
3858830.19	681.00	681.10	681.90	682.70	682.00	682.10	682.20	682.40	682.60	
3858805.26	681.80	682.70	681.90	682.10	681.90	682.20	682.40	682.60	682.70	
3858780.33	681.40	681.50	681.80	682.10	682.30	682.40	682.60	682.80	682.90	
3858755.40	681.30	681.40	681.80	682.10	682.30	682.60	682.70	682.90	683.10	
3858730.47	681.40	681.60	681.90	682.00	682.20	682.50	682.70	682.90	683.20	
3858705.54	681.50	681.60	682.00	682.10	682.20	682.40	682.70	683.00	683.20	
3858680.61	681.70	681.70	682.40	682.50	682.60	682.60	682.70	683.00	683.20	
3858655.68	681.90	681.80	682.10	682.40	682.60	682.80	682.90	683.20	683.30	
3858630.75	682.20	682.10	682.30	682.50	682.70	682.90	683.00	683.30	683.40	
3858605.82	682.50	682.40	682.50	682.60	682.80	683.00	683.10	683.50	683.60	
3858580.89	682.70	682.60	682.70	682.70	683.00	683.20	683.30	683.60	683.90	
3858555.96	682.50	682.60	682.80	682.90	683.10	683.40	683.70	683.90	684.00	
3858531.03	682.90	682.90	682.90	683.00	683.20	683.40	683.90	683.90	684.00	
3858506.10	683.00	683.00	683.20	683.30	683.50					

683.70 683.90 684.10 684.20
3858481.17 | 683.20 683.20 683.50 683.50 683.70
683.90 684.10 684.30 684.40
3858456.24 | 683.40 683.50 683.60 683.60 683.80
684.10 684.30 684.50 684.60
3858431.31 | 683.60 683.70 683.70 683.70 683.90
684.10 684.40 684.80 684.80
3858406.38 | 683.60 683.80 683.60 683.70 684.00
684.30 684.50 684.90 685.00
↟ *** AERMOD - VERSION 23132 *** *** C:\Users\dlarocca\Desktop\Lakes Files\15054 Lennwood\Lennwood\Lennwo *** 07/17/24
*** AERMET - VERSION 19191 *** *** 01:16:45

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS) | X-COORD (METERS)
488853.04 488882.86 488912.68 488942.50 488972.32 489002.14 489031.96 489061.78 489091.60
- - - -

```
  3858630.75 |        683.70       684.10       684.20       684.50       684.50
  684.80       685.00       685.30       685.40
  3858605.82 |        683.90       684.20       684.20       684.50       684.60
  684.90       685.10       685.30       685.60
  3858580.89 |        684.10       684.20       684.20       684.50       684.80
  685.00       685.20       685.40       685.70
  3858555.96 |        684.10       684.30       684.40       684.60       684.90
  685.20       685.40       685.60       685.80
  3858531.03 |        684.10       684.40       684.60       684.80       685.00
  685.20       685.50       685.70       685.90
  3858506.10 |        684.30       684.60       684.80       685.10       685.30
  685.40       685.60       685.90       686.00
  3858481.17 |        684.70       684.90       685.00       685.30       685.40
  685.60       685.80       686.00       686.20
  3858456.24 |        685.00       685.20       685.20       685.40       685.50
  685.70       686.00       686.10       686.30
  3858431.31 |        684.90       685.10       685.40       685.50       685.70
  685.90       686.10       686.30       686.50
  3858406.38 |        685.00       685.30       685.60       685.70       685.80
  686.00       686.20       686.50       686.70
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***       01:16:45

                                  PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE: GRIDCART
***

                                                * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     489121.42    489151.24    489181.06
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3858904.98 |        684.40       684.50       684.90
  3858880.05 |        684.50       684.80       685.00
  3858855.12 |        684.70       685.00       685.20
  3858830.19 |        685.00       685.00       685.40
  3858805.26 |        684.90       685.30       685.60
  3858780.33 |        685.00       685.30       685.70
  3858755.40 |        685.20       685.50       685.70
  3858730.47 |        685.40       685.70       685.90
  3858705.54 |        685.60       685.90       686.10
  3858680.61 |        685.50       685.70       686.20
  3858655.68 |        685.40       685.70       686.20
  3858630.75 |        685.40       685.60       686.10
```

  3858605.82 | 685.60   685.80   686.20
  3858580.89 | 685.90   686.20   686.40
  3858555.96 | 686.10   686.30   686.40
  3858531.03 | 686.20   686.40   686.60
  3858506.10 | 686.20   686.50   686.70
  3858481.17 | 686.40   686.60   686.80
  3858456.24 | 686.60   686.70   687.00
  3858431.31 | 686.70   687.00   687.20
  3858406.38 | 687.00   687.10   687.30
↟ *** AERMOD - VERSION 23132 ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054 Lennwood\Lennwood\Lennwo ***   07/17/24
 *** AERMET - VERSION 19191 ***   ***   ***   01:16:45

                                  PAGE 70
 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                  *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                                 * HILL HEIGHT SCALES IN METERS *

    Y-COORD | X-COORD (METERS)
    (METERS) | 488584.66   488614.48   488644.30   488674.12   488703.94   488733.76   488763.58   488793.40   488823.22
 - - -

```
  3858630.75 |        682.20       682.10       682.30       682.50       682.70
  682.90       683.00       683.30       683.40
  3858605.82 |        682.50       682.40       682.50       682.60       682.80
  683.00       683.10       683.50       683.60
  3858580.89 |        682.70       682.60       682.70       682.70       683.00
  683.20       683.30       683.60       683.90
  3858555.96 |        682.50       682.60       682.80       682.90       683.10
  683.40       683.70       683.90       684.00
  3858531.03 |        682.90       682.90       682.90       683.00       683.20
  683.40       683.90       683.90       684.00
  3858506.10 |        683.00       683.00       683.20       683.30       683.50
  683.70       683.90       684.10       684.20
  3858481.17 |        683.20       683.20       683.50       683.50       683.70
  683.90       684.10       684.30       684.40
  3858456.24 |        683.40       683.50       683.60       683.60       683.80
  684.10       684.30       684.50       684.60
  3858431.31 |        683.60       683.70       683.70       683.70       683.90
  684.10       684.40       684.80       684.80
  3858406.38 |        683.60       683.80       683.60       683.70       684.00
  684.30       684.50       684.90       685.00
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE  71
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE: GRIDCART
***

                                                * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     488853.04    488882.86    488912.68    488942.50    488972.32
489002.14    489031.96    489061.78    489091.60
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3858904.98 |        682.90       682.70       682.90       682.80       683.30
  683.60       683.80       684.00       684.20
  3858880.05 |        682.80       682.90       683.10       683.00       683.30
  683.70       683.90       684.10       684.30
  3858855.12 |        682.80       683.00       683.30       683.20       683.50
  683.90       683.90       684.10       684.40
  3858830.19 |        682.80       683.10       683.50       683.50       684.00
  683.90       684.00       684.20       684.70
  3858805.26 |        682.90       683.10       683.40       683.70       684.60
  684.10       684.20       684.50       684.60
  3858780.33 |        683.30       683.60       683.90       684.00       684.40
```

```
  684.50       684.50       684.70       684.80
  3858755.40 |        683.40       683.80       684.00       684.10       684.30
  684.60       684.70       684.90       685.10
  3858730.47 |        683.30       683.70       683.90       684.10       684.30
  684.60       684.70       685.10       685.30
  3858705.54 |        683.30       683.60       683.90       684.20       684.40
  684.50       684.70       685.00       685.20
  3858680.61 |        683.60       684.00       684.10       684.30       684.50
  684.70       684.80       684.90       685.00
  3858655.68 |        683.60       684.00       684.20       684.40       684.40
  684.70       684.90       685.20       685.20
  3858630.75 |        683.70       684.10       684.20       684.50       684.50
  684.80       685.00       685.30       685.40
  3858605.82 |        683.90       684.20       684.20       684.50       684.60
  684.90       685.10       685.30       685.60
  3858580.89 |        684.10       684.20       684.20       684.50       684.80
  685.00       685.20       685.40       685.70
  3858555.96 |        684.10       684.30       684.40       684.60       684.90
  685.20       685.40       685.60       685.80
  3858531.03 |        684.10       684.40       684.60       684.80       685.00
  685.20       685.50       685.70       685.90
  3858506.10 |        684.30       684.60       684.80       685.10       685.30
  685.40       685.60       685.90       686.00
  3858481.17 |        684.70       684.90       685.00       685.30       685.40
  685.60       685.80       686.00       686.20
  3858456.24 |        685.00       685.20       685.20       685.40       685.50
  685.70       686.00       686.10       686.30
  3858431.31 |        684.90       685.10       685.40       685.50       685.70
  685.90       686.10       686.30       686.50
  3858406.38 |        685.00       685.30       685.60       685.70       685.80
  686.00       686.20       686.50       686.70
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                 *** NETWORK ID: UCART3   ;  NETWORK TYPE: GRIDCART
***

                                              * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     489121.42    489151.24    489181.06
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

  3858904.98 |        684.40       684.50       684.90
```

3858880.05	684.50	684.80	685.00
3858855.12	684.70	685.00	685.20
3858830.19	685.00	685.00	685.40
3858805.26	684.90	685.30	685.60
3858780.33	685.00	685.30	685.70
3858755.40	685.20	685.50	685.70
3858730.47	685.40	685.70	685.90
3858705.54	685.60	685.90	686.10
3858680.61	685.50	685.70	686.20
3858655.68	685.40	685.70	686.20
3858630.75	685.40	685.60	686.10
3858605.82	685.60	685.80	686.20
3858580.89	685.90	686.20	686.40
3858555.96	686.10	686.30	686.40
3858531.03	686.20	686.40	686.60
3858506.10	686.20	686.50	686.70
3858481.17	686.40	686.60	686.80
3858456.24	686.60	686.70	687.00
3858431.31	686.70	687.00	687.20
3858406.38	687.00	687.10	687.30

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

489386.1, 489460.6, 489535.1, 489609.7, 489684.2, 489758.7, 489833.2, 489907.7, 489982.3, 490056.8,
490131.3, 490205.8, 490280.3, 490354.9, 490429.4, 490503.9, 490578.4, 490652.9, 490727.5, 490802.0,
490876.5,

*** Y-COORDINATES OF GRID ***
(METERS)

3861173.0, 3861198.1, 3861223.2, 3861248.4, 3861273.5, 3861298.7, 3861323.8, 3861348.9, 3861374.1, 3861399.2,
3861424.4, 3861449.5, 3861474.6, 3861499.8, 3861524.9, 3861550.1, 3861575.2, 3861600.3, 3861625.5, 3861650.6,
3861675.8,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	489386.10	489460.62	489535.14	489609.66	489684.18	489758.70	489833.22	489907.74	489982.26	
3861675.76	661.60	663.30	663.00	663.10	662.90	662.90	663.00	662.90	662.50	
3861650.62	662.20	663.50	663.90	664.00	663.70	663.40	663.40	663.50	662.40	
3861625.48	662.70	663.40	664.10	664.30	664.20	664.20	663.90	664.30	663.00	
3861600.34	663.00	664.30	664.20	664.60	665.30	665.70	664.80	664.40	664.30	
3861575.20	664.70	664.30	664.10	664.90	665.70	665.40	664.90	664.20	664.90	
3861550.06	665.10	664.50	664.60	665.00	664.90	664.70	664.60	664.50	665.00	
3861524.92	665.20	664.90	664.90	664.90	664.60	664.50	664.50	664.60	664.70	
3861499.78	665.30	665.10	665.00	665.10	665.00	664.40	664.60	664.80	665.40	
3861474.64	665.40	665.20	665.10	665.40	665.60	664.50	664.80	665.00	666.60	
3861449.50	665.30	665.30	665.20	665.40	665.10	665.00	665.10	665.20	665.70	
3861424.36	665.40	665.50	665.20	665.30	665.40	665.10	665.50	666.40	665.50	
3861399.22	665.50	665.50	665.10	665.50	665.70	665.40	666.00	666.00	665.40	
3861374.08	665.50	665.40	665.20	665.70	665.80	665.60	666.30	665.60	665.40	
3861348.94	665.50	665.40	665.30	665.70	665.70	665.70	666.20	665.50	665.50	
3861323.80	665.50	665.70	665.60	665.70	665.80	665.90	665.70	665.60	665.70	
3861298.66	665.60	665.90	665.90	665.80	666.30					

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	490056.78	490131.30	490205.82	490280.34	490354.86	490429.38	490503.90	490578.42	490652.94	
3861675.76	662.40	662.10	660.80	660.10	660.10	659.90	659.80	659.50	660.10	
3861650.62	662.30	662.10	661.50	661.60	660.20	660.00	659.80	660.60	661.80	
3861625.48	662.80	662.90	662.80	663.40	661.40	661.30	660.90	662.20	663.20	
3861600.34	664.10	664.20	664.30	664.50	664.20	664.10	663.60	663.30	663.10	
3861575.20	664.10	663.90	664.70	664.50	663.90	663.80	663.60	663.70	663.10	
3861550.06	664.20	665.00	665.00	665.20	664.00	664.70	663.60	663.60	663.20	
3861524.92	664.90	665.20	664.90	665.50	665.10	664.40	663.70	663.60	663.40	
3861499.78	665.30	665.00	665.60	666.30	665.80	664.30	663.70	663.60	663.60	
3861474.64	665.10	665.20	667.00	667.20	665.40	664.80	663.90	663.60	663.60	
3861449.50	665.00	666.90	667.60	666.40	664.80	664.60	664.30	663.90	663.70	

```
  3861424.36 |        665.10       665.90       667.30       666.00       664.60
  664.60       664.00       664.00       663.70
  3861399.22 |        665.10       665.70       666.30       665.40       664.50
  664.40       663.90       663.90       663.60
  3861374.08 |        665.30       665.80       666.10       665.00       664.40
  664.30       664.00       664.00       663.70
  3861348.94 |        665.50       665.70       666.20       664.90       664.40
  664.20       664.10       664.00       663.80
  3861323.80 |        665.60       665.60       665.40       665.00       664.70
  664.40       664.20       664.00       663.90
  3861298.66 |        665.70       666.10       665.20       665.10       664.70
  664.70       664.50       664.70       663.90
  3861273.52 |        665.60       665.60       665.40       665.20       664.80
  665.20       664.70       664.60       664.20
  3861248.38 |        665.70       665.40       665.50       665.20       665.00
  665.30       665.00       665.60       664.40
  3861223.24 |        665.90       665.60       665.70       665.80       665.40
  665.60       665.60       666.40       664.70
  3861198.10 |        666.10       665.90       666.10       666.70       665.80
  666.30       666.30       666.40       665.10
  3861172.96 |        666.60       666.00       666.50       666.60       666.20
  666.40       666.60       666.30       665.40
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                 *** NETWORK ID: UCART4   ;  NETWORK TYPE: GRIDCART
***

                                              * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     490727.46    490801.98    490876.50
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3861675.76 |        662.10       661.20       661.60
  3861650.62 |        663.20       662.50       662.90
  3861625.48 |        662.90       662.80       662.80
  3861600.34 |        662.80       663.00       662.60
  3861575.20 |        663.00       663.10       662.60
  3861550.06 |        663.10       663.20       662.60
  3861524.92 |        663.50       663.20       662.70
  3861499.78 |        663.60       663.60       662.90
  3861474.64 |        663.50       663.90       663.20
  3861449.50 |        663.70       663.40       663.40
```

```
  3861424.36 |        665.40       665.50       665.20       665.30       665.40
  665.10       665.50       666.40       665.50
  3861399.22 |        665.50       665.50       665.10       665.50       665.70
  665.40       666.00       666.00       665.40
  3861374.08 |        665.50       665.40       665.20       665.70       665.80
  665.60       666.30       665.60       665.40
  3861348.94 |        665.50       665.40       665.30       665.70       665.70
  665.70       666.20       665.50       665.50
  3861323.80 |        665.50       665.70       665.60       665.70       665.80
  665.90       665.70       665.60       665.70
  3861298.66 |        665.60       665.90       665.90       665.80       666.30
  666.10       665.80       665.80       666.20
  3861273.52 |        665.90       666.00       666.00       666.20       666.20
  666.30       666.10       666.20       666.50
  3861248.38 |        666.50       666.30       666.00       666.40       666.20
  666.30       666.50       666.50       666.40
  3861223.24 |        667.20       666.90       666.10       666.40       666.20
  666.40       666.80       666.60       666.30
  3861198.10 |        667.90       667.60       666.40       666.30       666.30
  666.50       666.90       666.70       666.40
  3861172.96 |        668.60       668.30       666.50       666.40       666.40
  666.60       667.00       666.80       666.60
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                 *** NETWORK ID: UCART4   ;  NETWORK TYPE: GRIDCART
***

                                          * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     490056.78    490131.30    490205.82    490280.34    490354.86
490429.38    490503.90    490578.42    490652.94
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3861675.76 |        662.40       662.10       660.80       660.10       660.10
  659.90       659.80       659.50       663.00
  3861650.62 |        662.30       662.10       661.50       661.60       660.20
  660.00       659.80       663.40       661.80
  3861625.48 |        662.80       662.90       662.80       663.40       664.80
  664.60       663.60       662.20       663.20
  3861600.34 |        664.10       664.20       664.30       664.50       664.20
  664.10       663.60       663.30       663.10
  3861575.20 |        664.10       663.90       664.70       664.50       663.90
```

```
  663.80       663.60       663.70       663.10
  3861550.06 |       664.20       665.00       665.00       665.20       664.00
  664.70       663.60       663.60       663.20
  3861524.92 |       664.90       665.20       664.90       665.50       665.10
  664.40       663.70       663.60       663.40
  3861499.78 |       665.30       665.00       665.60       666.30       665.80
  664.30       663.70       663.60       663.60
  3861474.64 |       665.10       665.20       667.00       667.20       665.40
  664.80       663.90       663.60       663.60
  3861449.50 |       665.00       666.90       667.60       666.40       664.80
  664.60       664.30       663.90       663.70
  3861424.36 |       665.10       665.90       667.30       666.00       664.60
  664.60       664.00       664.00       663.70
  3861399.22 |       665.10       665.70       666.30       665.40       664.50
  664.40       663.90       663.90       663.60
  3861374.08 |       665.30       665.80       666.10       665.00       664.40
  664.30       664.00       664.00       663.70
  3861348.94 |       665.50       665.70       666.20       664.90       664.40
  664.20       664.10       664.00       663.80
  3861323.80 |       665.60       665.60       665.40       665.00       664.70
  664.40       664.20       664.00       663.90
  3861298.66 |       665.70       666.10       665.20       665.10       664.70
  664.70       664.50       664.70       663.90
  3861273.52 |       665.60       665.60       665.40       665.20       664.80
  665.20       664.70       664.60       664.20
  3861248.38 |       665.70       665.40       665.50       665.20       665.00
  665.30       665.00       665.60       664.40
  3861223.24 |       665.90       665.60       665.70       665.80       665.40
  665.60       665.60       666.40       664.70
  3861198.10 |       666.10       665.90       666.10       666.70       665.80
  666.30       666.30       666.40       665.10
  3861172.96 |       666.60       666.00       666.50       666.60       666.20
  666.40       666.60       666.30       665.40
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***       01:16:45

                                  PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE: GRIDCART
***

                                          * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     490727.46    490801.98    490876.50
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
```

3861675.76	663.70	661.20	662.90
3861650.62	663.20	662.50	662.90
3861625.48	662.90	662.80	662.80
3861600.34	662.80	663.00	662.60
3861575.20	663.00	663.10	662.60
3861550.06	663.10	663.20	662.60
3861524.92	663.50	663.20	662.70
3861499.78	663.60	663.60	662.90
3861474.64	663.50	663.90	663.20
3861449.50	663.70	663.40	663.40
3861424.36	663.50	663.50	663.00
3861399.22	663.80	663.40	663.20
3861374.08	663.90	663.50	663.30
3861348.94	663.70	663.70	663.50
3861323.80	663.70	663.70	663.80
3861298.66	664.60	664.60	664.00
3861273.52	664.50	664.80	664.10
3861248.38	664.50	665.10	664.40
3861223.24	664.80	665.40	664.70
3861198.10	665.00	665.40	664.70
3861172.96	665.10	665.20	664.80

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

491611.2, 491642.0, 491672.8, 491703.6, 491734.4, 491765.2, 491795.9, 491826.7, 491857.5, 491888.3,
491919.1, 491949.9, 491980.7, 492011.5, 492042.3, 492073.0, 492103.8, 492134.6, 492165.4, 492196.2,
492227.0,

*** Y-COORDINATES OF GRID ***
(METERS)

3861104.5, 3861134.0, 3861163.4, 3861192.9, 3861222.3, 3861251.8, 3861281.2, 3861310.7, 3861340.1, 3861369.6,
3861399.0, 3861428.5, 3861457.9, 3861487.4, 3861516.8, 3861546.3, 3861575.7,

                                                * ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	491611.20	491641.99	491672.78	491703.57	491734.36	491765.15	491795.94	491826.73	491857.52	
3861693.54	661.00	661.10	661.40	660.80	660.50	660.20	660.20	660.30	660.40	
3861664.09	660.90	660.90	660.60	660.60	660.50	660.40	660.30	660.10	659.80	
3861634.64	661.00	660.90	660.70	660.70	660.60	660.20	660.50	660.20	659.80	
3861605.19	660.90	661.00	660.80	660.70	660.80	660.50	660.50	660.30	660.10	
3861575.74	661.00	661.00	660.80	660.80	660.60	660.50	660.50	660.30	660.10	
3861546.29	661.00	661.10	660.80	660.70	660.70	660.60	660.70	660.50	660.50	
3861516.84	661.10	661.10	661.00	660.80	660.70	660.50	660.40	660.40	660.30	
3861487.39	661.10	661.10	661.10	660.90	660.70	660.50	660.40	660.30	660.20	
3861457.94	661.10	661.00	660.90	660.80	660.70	660.50	660.40	660.40	660.30	
3861428.49	661.30	661.00	661.00	660.90	660.80	660.70	660.60	660.50	660.30	
3861399.04	661.40	661.10	661.10	660.90	660.90	660.80	660.60	660.40	660.30	
3861369.59	661.30	661.10	661.10	660.90	660.80	660.80	660.60	660.50	660.40	
3861340.14	661.20	661.10	661.00	660.90	660.80	660.70	660.60	660.70	660.40	
3861310.69	661.20	661.00	660.90	660.80	660.70	660.70	660.60	660.60	660.40	
3861281.24	661.30	661.10	660.90	660.90	660.80					

660.70 660.60 660.50 660.50
3861251.79 | 661.40 661.20 661.00 661.00 660.80
660.70 660.60 660.60 660.50
3861222.34 | 661.50 661.30 661.10 661.00 660.90
660.70 660.60 660.60 660.60
3861192.89 | 661.50 661.40 661.40 661.30 661.00
660.80 660.60 660.70 660.80
3861163.44 | 661.60 661.60 661.80 661.60 661.20
660.90 661.00 660.90 661.00
3861133.99 | 661.50 661.90 662.00 661.80 661.40
661.10 661.40 660.90 660.90
3861104.54 | 661.60 661.80 661.80 661.70 661.50
661.20 660.80 660.70 660.70
*** AERMOD - VERSION 23132 *** *** C:\Users\dlarocca\Desktop\Lakes Files\15054 Lennwood\Lennwood\Lennwo *** 07/17/24
*** AERMET - VERSION 19191 *** *** 01:16:45

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS) | X-COORD (METERS)
491888.31 491919.10 491949.89 491980.68 492011.47 492042.26 492073.05 492103.84 492134.63
- - - -

```
  3861428.49 |        660.10       660.10       660.10       660.10       660.00
  660.40       659.90       659.70       659.50
  3861399.04 |        660.20       660.20       660.20       660.10       660.00
  660.30       659.90       659.70       659.60
  3861369.59 |        660.40       660.10       660.30       660.10       660.00
  660.20       659.70       659.60       659.70
  3861340.14 |        660.60       660.10       660.20       660.10       660.00
  660.20       659.90       659.80       659.70
  3861310.69 |        660.50       660.20       660.10       660.10       660.10
  660.30       660.00       660.00       659.80
  3861281.24 |        660.40       660.30       660.20       660.10       660.30
  660.10       659.90       659.90       659.80
  3861251.79 |        660.30       660.30       660.30       660.30       660.40
  660.10       660.00       659.80       659.70
  3861222.34 |        660.40       660.50       660.50       660.40       660.30
  660.10       660.10       660.00       659.80
  3861192.89 |        660.80       660.70       660.70       660.60       660.50
  660.10       660.20       660.20       660.10
  3861163.44 |        661.00       660.90       660.80       660.70       660.70
  660.30       660.30       660.40       660.20
  3861133.99 |        660.70       660.80       660.70       660.50       660.40
  660.30       660.30       660.30       660.10
  3861104.54 |        660.60       660.50       660.40       660.30       660.30
  660.30       660.30       660.20       660.10
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***       01:16:45

                                  PAGE  83
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                  *** NETWORK ID: UCART5   ;  NETWORK TYPE: GRIDCART
***

                                             * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     492165.42    492196.21    492227.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3861693.54 |        657.80       657.60       657.60
  3861664.09 |        657.90       657.80       657.80
  3861634.64 |        657.50       658.00       657.80
  3861605.19 |        657.90       658.00       657.80
  3861575.74 |        658.60       658.10       658.00
  3861546.29 |        659.20       659.00       658.60
  3861516.84 |        659.50       659.20       659.10
  3861487.39 |        659.40       659.30       659.20
```

                                                * HILL HEIGHT SCALES IN METERS *

    Y-COORD | X-COORD (METERS)
    (METERS) | 491611.20   491641.99   491672.78   491703.57   491734.36   491765.15   491795.94   491826.73   491857.52
 -

  3861693.54 | 661.00   661.10   661.40   660.80   660.50   660.20   660.20   660.30   660.40
  3861664.09 | 660.90   660.90   660.60   660.60   660.50   660.40   660.30   660.10   659.80
  3861634.64 | 661.00   660.90   660.70   660.70   660.60   660.20   660.50   660.20   659.80
  3861605.19 | 660.90   661.00   660.80   660.70   660.80   660.50   660.50   660.30   660.10
  3861575.74 | 661.00   661.00   660.80   660.80   660.60   660.50   660.50   660.30   660.10
  3861546.29 | 661.00   661.10   660.80   660.70   660.70   660.60   660.70   660.50   660.50
  3861516.84 | 661.10   661.10   661.00   660.80   660.70   660.50   660.40   660.40   660.30
  3861487.39 | 661.10   661.10   661.10   660.90   660.70   660.50   660.40   660.30   660.20
  3861457.94 | 661.10   661.00   660.90   660.80   660.70   660.50   660.40   660.40   660.30

```
  3861428.49 |        661.30       661.00       661.00       660.90       660.80
  660.70       660.60       660.50       660.30
  3861399.04 |        661.40       661.10       661.10       660.90       660.90
  660.80       660.60       660.40       660.30
  3861369.59 |        661.30       661.10       661.10       660.90       660.80
  660.80       660.60       660.50       660.40
  3861340.14 |        661.20       661.10       661.00       660.90       660.80
  660.70       660.60       660.70       660.40
  3861310.69 |        661.20       661.00       660.90       660.80       660.70
  660.70       660.60       660.60       660.40
  3861281.24 |        661.30       661.10       660.90       660.90       660.80
  660.70       660.60       660.50       660.50
  3861251.79 |        661.40       661.20       661.00       661.00       660.80
  660.70       660.60       660.60       660.50
  3861222.34 |        661.50       661.30       661.10       661.00       660.90
  660.70       660.60       660.60       660.60
  3861192.89 |        661.50       661.40       661.40       661.30       661.00
  660.80       660.60       660.70       660.80
  3861163.44 |        661.60       661.60       661.80       661.60       661.20
  660.90       661.00       660.90       661.00
  3861133.99 |        661.50       661.90       662.00       661.80       661.40
  661.10       661.40       660.90       660.90
  3861104.54 |        661.60       661.80       661.80       661.70       661.50
  661.20       660.80       660.70       660.70
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***       01:16:45

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                  *** NETWORK ID: UCART5   ;  NETWORK TYPE: GRIDCART
***

                                             * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     491888.31    491919.10    491949.89    491980.68    492011.47
492042.26    492073.05    492103.84    492134.63
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3861693.54 |        660.10       659.00       659.00       658.90       658.80
  658.70       658.20       658.00       657.90
  3861664.09 |        659.80       659.50       659.40       659.60       659.60
  659.50       658.20       658.00       658.00
  3861634.64 |        659.60       659.60       659.70       659.70       659.80
  659.80       659.40       658.40       658.00
  3861605.19 |        660.00       659.90       659.90       659.80       659.70
```

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  659.80       659.50       659.30       658.70
  3861575.74 |        660.20       660.00       659.90       660.00       659.80
  660.10       660.40       659.50       659.60
  3861546.29 |        660.40       660.30       660.20       660.10       660.40
  660.20       659.70       659.50       659.50
  3861516.84 |        660.50       660.40       660.20       660.00       660.40
  660.30       659.60       659.60       659.40
  3861487.39 |        660.30       660.30       660.30       660.10       660.10
  660.40       659.70       659.50       659.40
  3861457.94 |        660.20       660.20       660.10       660.20       660.10
  660.50       659.70       659.60       659.50
  3861428.49 |        660.10       660.10       660.10       660.10       660.00
  660.40       659.90       659.70       659.50
  3861399.04 |        660.20       660.20       660.20       660.10       660.00
  660.30       659.90       659.70       659.60
  3861369.59 |        660.40       660.10       660.30       660.10       660.00
  660.20       659.70       659.60       659.70
  3861340.14 |        660.60       660.10       660.20       660.10       660.00
  660.20       659.90       659.80       659.70
  3861310.69 |        660.50       660.20       660.10       660.10       660.10
  660.30       660.00       660.00       659.80
  3861281.24 |        660.40       660.30       660.20       660.10       660.30
  660.10       659.90       659.90       659.80
  3861251.79 |        660.30       660.30       660.30       660.30       660.40
  660.10       660.00       659.80       659.70
  3861222.34 |        660.40       660.50       660.50       660.40       660.30
  660.10       660.10       660.00       659.80
  3861192.89 |        660.80       660.70       660.70       660.60       660.50
  660.10       660.20       660.20       660.10
  3861163.44 |        661.00       660.90       660.80       660.70       660.70
  660.30       660.30       660.40       660.20
  3861133.99 |        660.70       660.80       660.70       660.50       660.40
  660.30       660.30       660.30       660.10
  3861104.54 |        660.60       660.50       660.40       660.30       660.30
  660.30       660.30       660.20       660.10
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE  86
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                 *** NETWORK ID: UCART5   ;  NETWORK TYPE: GRIDCART
***

                                              * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                                  X-COORD (METERS)
    (METERS) |     492165.42    492196.21    492227.00
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```
    ( 488974.0, 3861097.8,     670.7,     675.5,       0.0);         ( 488931.6,
3860976.6,     670.9,     670.9,       0.0);
    ( 488935.7, 3861034.7,     673.6,     673.6,       0.0);         ( 488959.9,
3861061.4,     673.6,     675.5,       0.0);
    ( 489165.8, 3861208.8,     667.1,     667.1,       0.0);         ( 489317.7,
3861109.3,     668.5,     668.5,       0.0);
    ( 489385.9, 3861014.8,     668.3,     668.3,       0.0);         ( 489372.2,
3861112.7,     668.7,     668.7,       0.0);
    ( 489420.8, 3861106.7,     668.5,     668.5,       0.0);         ( 489436.1,
3861037.7,     667.8,     667.8,       0.0);
    ( 489488.1, 3861036.9,     668.3,     668.3,       0.0);         ( 489473.6,
3861111.0,     668.5,     668.5,       0.0);
    ( 489431.0, 3861167.2,     669.1,     669.1,       0.0);         ( 489662.7,
3860915.9,     668.1,     668.1,       0.0);
    ( 489644.8, 3861076.1,     667.4,     667.4,       0.0);         ( 489659.3,
3861099.1,     667.0,     667.0,       0.0);
    ( 489735.9, 3861020.7,     667.4,     667.4,       0.0);         ( 489700.1,
3861029.2,     667.6,     667.6,       0.0);
    ( 489708.6, 3861062.4,     667.4,     667.4,       0.0);         ( 489779.3,
3861099.1,     667.0,     667.0,       0.0);
    ( 489836.0, 3859138.6,     686.4,     686.4,       0.0);         ( 489886.0,
3859138.6,     686.9,     686.9,       0.0);
    ( 489936.0, 3859138.6,     687.2,     687.2,       0.0);         ( 489986.0,
3859138.6,     688.3,     688.3,       0.0);
    ( 490036.0, 3859138.6,     689.3,     689.3,       0.0);         ( 490086.0,
3859138.6,     689.7,     689.7,       0.0);
    ( 490136.0, 3859138.6,     689.4,     689.4,       0.0);         ( 490186.0,
3859138.6,     689.6,     689.6,       0.0);
    ( 490236.0, 3859138.6,     690.3,     690.3,       0.0);         ( 490286.0,
3859138.6,     692.2,     692.2,       0.0);
    ( 490336.0, 3859138.6,     694.5,     694.5,       0.0);         ( 490386.0,
3859138.6,     697.4,     697.4,       0.0);
    ( 490436.0, 3859138.6,     698.5,     698.5,       0.0);         ( 490486.0,
3859138.6,     700.5,     700.5,       0.0);
    ( 490536.0, 3859138.6,     703.3,     703.3,       0.0);         ( 490586.0,
3859138.6,     705.1,     705.1,       0.0);
    ( 490636.0, 3859138.6,     707.3,     707.3,       0.0);         ( 490686.0,
3859138.6,     709.3,     709.3,       0.0);
    ( 490736.0, 3859138.6,     710.6,     710.6,       0.0);         ( 490786.0,
3859138.6,     712.1,     712.1,       0.0);
    ( 490836.0, 3859138.6,     714.1,     714.1,       0.0);         ( 490886.0,
3859138.6,     715.9,     715.9,       0.0);
    ( 489836.0, 3859188.6,     686.0,     686.0,       0.0);         ( 489886.0,
3859188.6,     686.6,     686.6,       0.0);
    ( 489936.0, 3859188.6,     686.8,     686.8,       0.0);         ( 489986.0,
3859188.6,     688.0,     688.0,       0.0);
    ( 490036.0, 3859188.6,     688.4,     688.4,       0.0);         ( 490086.0,
3859188.6,     687.9,     687.9,       0.0);
    ( 490136.0, 3859188.6,     688.4,     688.4,       0.0);         ( 490186.0,
3859188.6,     689.3,     689.3,       0.0);
```

```
     ( 490236.0, 3859188.6,     690.9,     690.9,       0.0);         ( 490286.0,
3859188.6,     692.4,     692.4,       0.0);
     ( 490336.0, 3859188.6,     693.8,     693.8,       0.0);         ( 490386.0,
3859188.6,     695.8,     695.8,       0.0);
     ( 490436.0, 3859188.6,     698.1,     698.1,       0.0);         ( 490486.0,
3859188.6,     701.1,     701.1,       0.0);
     ( 490536.0, 3859188.6,     703.1,     703.1,       0.0);         ( 490586.0,
3859188.6,     704.5,     704.5,       0.0);
     ( 490636.0, 3859188.6,     707.1,     707.1,       0.0);         ( 490686.0,
3859188.6,     710.3,     710.3,       0.0);
     ( 490736.0, 3859188.6,     712.1,     713.8,       0.0);         ( 490786.0,
3859188.6,     714.3,     714.3,       0.0);
     ( 490836.0, 3859188.6,     714.2,     714.2,       0.0);         ( 490886.0,
3859188.6,     715.8,     715.8,       0.0);
     ( 489836.0, 3859238.6,     686.0,     686.0,       0.0);         ( 489886.0,
3859238.6,     686.2,     686.2,       0.0);
     ( 489936.0, 3859238.6,     686.7,     686.7,       0.0);         ( 489986.0,
3859238.6,     688.4,     688.4,       0.0);
     ( 490036.0, 3859238.6,     688.2,     688.2,       0.0);         ( 490086.0,
3859238.6,     687.4,     687.4,       0.0);
     ( 490136.0, 3859238.6,     687.4,     687.4,       0.0);         ( 490186.0,
3859238.6,     688.0,     688.0,       0.0);
     ( 490236.0, 3859238.6,     689.9,     689.9,       0.0);         ( 490286.0,
3859238.6,     692.0,     692.0,       0.0);
     ( 490336.0, 3859238.6,     693.9,     693.9,       0.0);         ( 490386.0,
3859238.6,     695.4,     695.4,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 490436.0, 3859238.6,     697.2,     697.2,       0.0);         ( 490486.0,
3859238.6,     698.4,     702.2,       0.0);
     ( 490536.0, 3859238.6,     701.3,     701.3,       0.0);         ( 490586.0,
3859238.6,     703.8,     703.8,       0.0);
     ( 490636.0, 3859238.6,     705.9,     707.1,       0.0);         ( 490686.0,
3859238.6,     707.2,     707.2,       0.0);
     ( 490736.0, 3859238.6,     708.7,     714.2,       0.0);         ( 490786.0,
3859238.6,     710.5,     710.5,       0.0);
     ( 490836.0, 3859238.6,     711.6,     711.6,       0.0);         ( 490886.0,
3859238.6,     713.1,     714.7,       0.0);
     ( 489836.0, 3859288.6,     685.6,     685.6,       0.0);         ( 489886.0,
3859288.6,     686.0,     686.0,       0.0);
```

```
     ( 489936.0, 3859288.6,     686.6,     686.6,       0.0);         ( 489986.0,
3859288.6,     688.2,     688.2,       0.0);
     ( 490036.0, 3859288.6,     687.6,     687.6,       0.0);         ( 490086.0,
3859288.6,     687.3,     687.3,       0.0);
     ( 490136.0, 3859288.6,     687.1,     687.1,       0.0);         ( 490186.0,
3859288.6,     687.7,     687.7,       0.0);
     ( 490236.0, 3859288.6,     689.3,     689.3,       0.0);         ( 490286.0,
3859288.6,     690.6,     690.6,       0.0);
     ( 490336.0, 3859288.6,     692.8,     692.8,       0.0);         ( 490386.0,
3859288.6,     694.9,     694.9,       0.0);
     ( 490436.0, 3859288.6,     697.4,     697.4,       0.0);         ( 490486.0,
3859288.6,     698.0,     698.0,       0.0);
     ( 490536.0, 3859288.6,     698.2,     698.2,       0.0);         ( 490586.0,
3859288.6,     700.5,     704.3,       0.0);
     ( 490636.0, 3859288.6,     701.5,     704.9,       0.0);         ( 490686.0,
3859288.6,     703.7,     703.7,       0.0);
     ( 490736.0, 3859288.6,     706.4,     706.4,       0.0);         ( 490786.0,
3859288.6,     707.6,     707.6,       0.0);
     ( 490836.0, 3859288.6,     708.9,     708.9,       0.0);         ( 490886.0,
3859288.6,     710.5,     710.5,       0.0);
     ( 489836.0, 3859338.6,     685.0,     685.0,       0.0);         ( 489886.0,
3859338.6,     685.1,     685.1,       0.0);
     ( 489936.0, 3859338.6,     686.5,     686.5,       0.0);         ( 489986.0,
3859338.6,     686.7,     686.7,       0.0);
     ( 490036.0, 3859338.6,     686.4,     686.4,       0.0);         ( 490086.0,
3859338.6,     685.9,     685.9,       0.0);
     ( 490136.0, 3859338.6,     686.2,     686.2,       0.0);         ( 490186.0,
3859338.6,     686.9,     686.9,       0.0);
     ( 490236.0, 3859338.6,     687.9,     687.9,       0.0);         ( 490286.0,
3859338.6,     689.4,     689.4,       0.0);
     ( 490336.0, 3859338.6,     691.5,     691.5,       0.0);         ( 490386.0,
3859338.6,     693.0,     693.0,       0.0);
     ( 490436.0, 3859338.6,     694.3,     694.3,       0.0);         ( 490486.0,
3859338.6,     695.6,     697.5,       0.0);
     ( 490536.0, 3859338.6,     696.9,     696.9,       0.0);         ( 490586.0,
3859338.6,     698.3,     698.3,       0.0);
     ( 490636.0, 3859338.6,     699.3,     699.3,       0.0);         ( 490686.0,
3859338.6,     701.4,     701.4,       0.0);
     ( 490736.0, 3859338.6,     703.6,     703.6,       0.0);         ( 490786.0,
3859338.6,     705.2,     705.2,       0.0);
     ( 490836.0, 3859338.6,     705.5,     705.5,       0.0);         ( 490886.0,
3859338.6,     707.2,     707.2,       0.0);
     ( 489836.0, 3859388.6,     685.0,     685.0,       0.0);         ( 489886.0,
3859388.6,     685.2,     685.2,       0.0);
     ( 489936.0, 3859388.6,     684.9,     684.9,       0.0);         ( 489986.0,
3859388.6,     685.4,     685.4,       0.0);
     ( 490036.0, 3859388.6,     685.1,     685.1,       0.0);         ( 490086.0,
3859388.6,     684.6,     684.6,       0.0);
     ( 490136.0, 3859388.6,     685.0,     685.0,       0.0);         ( 490186.0,
3859388.6,     685.8,     685.8,       0.0);
```

```
     ( 490186.0, 3859488.6,     683.6,     683.6,       0.0);         ( 490236.0,
3859488.6,     684.3,     684.3,       0.0);
     ( 490286.0, 3859488.6,     685.4,     685.4,       0.0);         ( 490336.0,
3859488.6,     685.9,     685.9,       0.0);
     ( 490386.0, 3859488.6,     687.1,     687.1,       0.0);         ( 490436.0,
3859488.6,     688.0,     688.0,       0.0);
     ( 490486.0, 3859488.6,     689.1,     689.1,       0.0);         ( 490536.0,
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     ( 490686.0, 3859488.6,     693.9,     693.9,       0.0);         ( 490736.0,
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     ( 490886.0, 3859488.6,     698.8,     698.8,       0.0);         ( 490086.0,
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     ( 490136.0, 3859538.6,     682.3,     682.3,       0.0);         ( 490186.0,
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     ( 490236.0, 3859538.6,     682.7,     682.7,       0.0);         ( 490286.0,
3859538.6,     683.2,     683.2,       0.0);
     ( 490336.0, 3859538.6,     684.3,     684.3,       0.0);         ( 490386.0,
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     ( 490436.0, 3859538.6,     686.3,     686.3,       0.0);         ( 490486.0,
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     ( 490536.0, 3859538.6,     688.3,     688.3,       0.0);         ( 490586.0,
3859538.6,     689.6,     689.6,       0.0);
     ( 490636.0, 3859538.6,     690.8,     690.8,       0.0);         ( 490686.0,
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     ( 490736.0, 3859538.6,     693.6,     693.6,       0.0);         ( 490786.0,
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     ( 490836.0, 3859538.6,     695.9,     695.9,       0.0);         ( 490886.0,
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3859588.6,     681.8,     681.8,       0.0);
     ( 490236.0, 3859588.6,     681.7,     681.7,       0.0);         ( 490286.0,
3859588.6,     681.9,     681.9,       0.0);
     ( 490336.0, 3859588.6,     682.9,     682.9,       0.0);         ( 490386.0,
3859588.6,     683.3,     683.3,       0.0);
     ( 490436.0, 3859588.6,     684.2,     684.2,       0.0);         ( 490486.0,
3859588.6,     685.3,     685.3,       0.0);
     ( 490536.0, 3859588.6,     686.5,     686.5,       0.0);         ( 490586.0,
3859588.6,     687.6,     687.6,       0.0);
     ( 490636.0, 3859588.6,     689.2,     689.2,       0.0);         ( 490686.0,
3859588.6,     690.3,     690.3,       0.0);
     ( 490736.0, 3859588.6,     691.9,     691.9,       0.0);         ( 490786.0,
3859588.6,     693.4,     693.4,       0.0);
     ( 490836.0, 3859588.6,     694.5,     694.5,       0.0);         ( 490886.0,
3859588.6,     695.8,     695.8,       0.0);
     ( 490136.0, 3859638.6,     682.6,     683.3,       0.0);         ( 490186.0,
3859638.6,     680.3,     682.7,       0.0);
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     ( 490236.0, 3859638.6,     681.0,     681.0,       0.0);         ( 490286.0,
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     ( 490336.0, 3859638.6,     681.2,     681.2,       0.0);         ( 490386.0,
3859638.6,     682.3,     682.3,       0.0);
     ( 490436.0, 3859638.6,     682.6,     682.6,       0.0);         ( 490486.0,
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     ( 490536.0, 3859638.6,     684.8,     684.8,       0.0);         ( 490586.0,
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     ( 490636.0, 3859638.6,     687.6,     687.6,       0.0);         ( 490686.0,
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     ( 490736.0, 3859638.6,     690.6,     690.6,       0.0);         ( 490786.0,
3859638.6,     691.9,     691.9,       0.0);
     ( 490836.0, 3859638.6,     692.8,     692.8,       0.0);         ( 490886.0,
3859638.6,     693.6,     693.6,       0.0);
     ( 490136.0, 3859688.6,     680.1,     680.1,       0.0);         ( 490186.0,
3859688.6,     680.1,     680.1,       0.0);
     ( 490236.0, 3859688.6,     680.2,     680.2,       0.0);         ( 490286.0,
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     ( 490336.0, 3859688.6,     681.0,     681.0,       0.0);         ( 490386.0,
3859688.6,     680.3,     680.3,       0.0);
     ( 490436.0, 3859688.6,     681.7,     681.7,       0.0);         ( 490486.0,
3859688.6,     682.6,     682.6,       0.0);
     ( 490536.0, 3859688.6,     683.9,     683.9,       0.0);         ( 490586.0,
3859688.6,     684.7,     684.7,       0.0);
     ( 490636.0, 3859688.6,     686.3,     686.3,       0.0);         ( 490686.0,
3859688.6,     687.9,     687.9,       0.0);
     ( 490736.0, 3859688.6,     689.4,     689.4,       0.0);         ( 490786.0,
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     ( 490836.0, 3859688.6,     691.3,     691.3,       0.0);         ( 490886.0,
3859688.6,     691.1,     691.1,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 490086.0, 3859738.6,     680.4,     680.4,       0.0);         ( 490136.0,
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     ( 490186.0, 3859738.6,     679.4,     679.4,       0.0);         ( 490236.0,
3859738.6,     679.1,     679.1,       0.0);
     ( 490286.0, 3859738.6,     679.8,     679.8,       0.0);         ( 490336.0,
3859738.6,     679.3,     679.3,       0.0);
     ( 490386.0, 3859738.6,     681.0,     681.0,       0.0);         ( 490436.0,
3859738.6,     680.9,     680.9,       0.0);
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     ( 490586.0, 3859738.6,     683.8,     683.8,       0.0);         ( 490636.0,
3859738.6,     685.2,     685.2,       0.0);
     ( 490686.0, 3859738.6,     686.4,     686.4,       0.0);         ( 490736.0,
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     ( 490786.0, 3859738.6,     688.1,     688.1,       0.0);         ( 490836.0,
3859738.6,     688.8,     688.8,       0.0);
     ( 490886.0, 3859738.6,     689.3,     689.3,       0.0);         ( 490086.0,
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     ( 490136.0, 3859788.6,     679.8,     679.8,       0.0);         ( 490186.0,
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     ( 490236.0, 3859788.6,     679.0,     679.0,       0.0);         ( 490286.0,
3859788.6,     678.5,     678.5,       0.0);
     ( 490336.0, 3859788.6,     678.3,     678.3,       0.0);         ( 490386.0,
3859788.6,     678.2,     678.2,       0.0);
     ( 490436.0, 3859788.6,     679.2,     679.2,       0.0);         ( 490486.0,
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     ( 490536.0, 3859788.6,     681.8,     681.8,       0.0);         ( 490586.0,
3859788.6,     681.8,     681.8,       0.0);
     ( 490636.0, 3859788.6,     683.9,     684.9,       0.0);         ( 490686.0,
3859788.6,     685.1,     685.1,       0.0);
     ( 490736.0, 3859788.6,     685.1,     685.1,       0.0);         ( 490786.0,
3859788.6,     685.8,     685.8,       0.0);
     ( 490836.0, 3859788.6,     686.8,     686.8,       0.0);         ( 490886.0,
3859788.6,     688.9,     688.9,       0.0);
     ( 490086.0, 3859838.6,     680.0,     680.0,       0.0);         ( 490136.0,
3859838.6,     679.5,     679.5,       0.0);
     ( 490186.0, 3859838.6,     679.2,     679.2,       0.0);         ( 490236.0,
3859838.6,     679.1,     679.1,       0.0);
     ( 490286.0, 3859838.6,     678.6,     678.6,       0.0);         ( 490336.0,
3859838.6,     678.0,     678.0,       0.0);
     ( 490386.0, 3859838.6,     678.0,     678.0,       0.0);         ( 490436.0,
3859838.6,     678.3,     678.3,       0.0);
     ( 490486.0, 3859838.6,     678.8,     678.8,       0.0);         ( 490536.0,
3859838.6,     680.0,     680.0,       0.0);
     ( 490586.0, 3859838.6,     680.9,     680.9,       0.0);         ( 490636.0,
3859838.6,     681.7,     681.7,       0.0);
     ( 490686.0, 3859838.6,     681.7,     681.7,       0.0);         ( 490736.0,
3859838.6,     683.3,     683.3,       0.0);
     ( 490786.0, 3859838.6,     685.2,     685.2,       0.0);         ( 490836.0,
3859838.6,     685.8,     685.8,       0.0);
     ( 490886.0, 3859838.6,     686.8,     686.8,       0.0);         ( 490086.0,
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     ( 490136.0, 3859888.6,     679.0,     679.0,       0.0);         ( 490186.0,
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     ( 490236.0, 3859888.6,     678.6,     678.6,       0.0);         ( 490286.0,
3859888.6,     678.2,     678.2,       0.0);
     ( 490336.0, 3859888.6,     677.9,     677.9,       0.0);         ( 490386.0,
3859888.6,     677.8,     677.8,       0.0);
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     ( 490636.0, 3859888.6,     680.6,     680.6,       0.0);         ( 490686.0,
3859888.6,     681.1,     681.1,       0.0);
     ( 490736.0, 3859888.6,     681.5,     681.5,       0.0);         ( 490786.0,
3859888.6,     681.6,     681.6,       0.0);
     ( 490836.0, 3859888.6,     682.5,     686.7,       0.0);         ( 490886.0,
3859888.6,     684.9,     686.7,       0.0);
     ( 490136.0, 3859938.6,     678.8,     678.8,       0.0);         ( 490186.0,
3859938.6,     678.6,     678.6,       0.0);
     ( 490236.0, 3859938.6,     678.3,     678.3,       0.0);         ( 490286.0,
3859938.6,     678.0,     678.0,       0.0);
     ( 490336.0, 3859938.6,     677.5,     677.5,       0.0);         ( 490386.0,
3859938.6,     677.3,     677.3,       0.0);
     ( 490436.0, 3859938.6,     677.0,     677.0,       0.0);         ( 490486.0,
3859938.6,     676.9,     676.9,       0.0);
     ( 490536.0, 3859938.6,     677.7,     677.7,       0.0);         ( 490586.0,
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     ( 490636.0, 3859938.6,     679.1,     679.1,       0.0);         ( 490686.0,
3859938.6,     680.9,     680.9,       0.0);
     ( 490736.0, 3859938.6,     681.7,     681.7,       0.0);         ( 490786.0,
3859938.6,     681.7,     681.7,       0.0);
     ( 490836.0, 3859938.6,     681.9,     681.9,       0.0);         ( 490886.0,
3859938.6,     679.7,     686.7,       0.0);
     ( 490136.0, 3859988.6,     678.6,     678.6,       0.0);         ( 490186.0,
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     ( 490236.0, 3859988.6,     678.6,     678.6,       0.0);         ( 490286.0,
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     ( 490336.0, 3859988.6,     677.8,     677.8,       0.0);         ( 490386.0,
3859988.6,     677.0,     677.0,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE  91
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                         (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                   (METERS)

     ( 490436.0, 3859988.6,     676.5,     676.5,       0.0);         ( 490486.0,
3859988.6,     676.4,     676.4,       0.0);
     ( 490536.0, 3859988.6,     676.7,     676.7,       0.0);         ( 490586.0,
3859988.6,     677.3,     677.3,       0.0);
     ( 490636.0, 3859988.6,     678.2,     678.2,       0.0);         ( 490686.0,
3859988.6,     679.8,     682.0,       0.0);
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     ( 490736.0, 3859988.6,     680.1,     680.1,       0.0);         ( 490786.0,
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     ( 490836.0, 3859988.6,     680.0,     680.0,       0.0);         ( 490886.0,
3859988.6,     678.8,     678.8,       0.0);
     ( 490136.0, 3860038.6,     678.5,     678.5,       0.0);         ( 490186.0,
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     ( 490236.0, 3860038.6,     678.0,     678.0,       0.0);         ( 490286.0,
3860038.6,     677.6,     677.6,       0.0);
     ( 490336.0, 3860038.6,     677.5,     677.5,       0.0);         ( 490386.0,
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     ( 490436.0, 3860038.6,     676.3,     676.3,       0.0);         ( 490486.0,
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     ( 490536.0, 3860038.6,     676.1,     676.1,       0.0);         ( 490586.0,
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     ( 490636.0, 3860038.6,     675.9,     675.9,       0.0);         ( 490686.0,
3860038.6,     676.7,     676.7,       0.0);
     ( 490736.0, 3860038.6,     678.5,     678.5,       0.0);         ( 490786.0,
3860038.6,     678.6,     678.6,       0.0);
     ( 490836.0, 3860038.6,     678.5,     678.5,       0.0);         ( 490886.0,
3860038.6,     677.7,     677.7,       0.0);
     ( 490136.0, 3860088.6,     678.4,     678.4,       0.0);         ( 490186.0,
3860088.6,     678.5,     678.5,       0.0);
     ( 490236.0, 3860088.6,     678.0,     678.0,       0.0);         ( 490286.0,
3860088.6,     677.6,     677.6,       0.0);
     ( 490336.0, 3860088.6,     677.0,     677.0,       0.0);         ( 490386.0,
3860088.6,     676.5,     676.5,       0.0);
     ( 490436.0, 3860088.6,     676.1,     676.1,       0.0);         ( 490486.0,
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     ( 490536.0, 3860088.6,     675.4,     675.4,       0.0);         ( 490586.0,
3860088.6,     675.5,     675.5,       0.0);
     ( 490636.0, 3860088.6,     675.2,     675.2,       0.0);         ( 490686.0,
3860088.6,     675.5,     675.5,       0.0);
     ( 490736.0, 3860088.6,     676.2,     676.2,       0.0);         ( 490786.0,
3860088.6,     676.9,     676.9,       0.0);
     ( 490836.0, 3860088.6,     676.8,     676.8,       0.0);         ( 490886.0,
3860088.6,     676.3,     676.3,       0.0);
     ( 490136.0, 3860138.6,     677.9,     677.9,       0.0);         ( 490186.0,
3860138.6,     678.0,     678.0,       0.0);
     ( 490236.0, 3860138.6,     677.5,     677.5,       0.0);         ( 490286.0,
3860138.6,     677.2,     677.2,       0.0);
     ( 490336.0, 3860138.6,     676.8,     676.8,       0.0);         ( 490386.0,
3860138.6,     676.3,     676.3,       0.0);
     ( 490436.0, 3860138.6,     675.6,     675.6,       0.0);         ( 490486.0,
3860138.6,     675.2,     675.2,       0.0);
     ( 490536.0, 3860138.6,     675.1,     675.1,       0.0);         ( 490586.0,
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     ( 490736.0, 3860138.6,     674.5,     674.5,       0.0);         ( 490786.0,
3860138.6,     675.2,     675.2,       0.0);
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     ( 490936.0, 3860138.6,     673.5,     673.5,       0.0);         ( 490986.0,
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     ( 491036.0, 3860138.6,     673.4,     673.4,       0.0);         ( 490136.0,
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     ( 490186.0, 3860188.6,     677.6,     677.6,       0.0);         ( 490236.0,
3860188.6,     677.2,     677.2,       0.0);
     ( 490286.0, 3860188.6,     676.8,     676.8,       0.0);         ( 490336.0,
3860188.6,     676.3,     676.3,       0.0);
     ( 490386.0, 3860188.6,     675.9,     675.9,       0.0);         ( 490436.0,
3860188.6,     675.4,     675.4,       0.0);
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     ( 490586.0, 3860188.6,     674.7,     674.7,       0.0);         ( 490636.0,
3860188.6,     674.2,     674.2,       0.0);
     ( 490686.0, 3860188.6,     674.2,     674.2,       0.0);         ( 490736.0,
3860188.6,     673.6,     673.6,       0.0);
     ( 490786.0, 3860188.6,     673.7,     673.7,       0.0);         ( 490836.0,
3860188.6,     673.7,     673.7,       0.0);
     ( 490886.0, 3860188.6,     673.0,     673.0,       0.0);         ( 490936.0,
3860188.6,     672.3,     672.3,       0.0);
     ( 490986.0, 3860188.6,     672.1,     672.1,       0.0);         ( 491036.0,
3860188.6,     671.7,     671.7,       0.0);
     ( 491086.0, 3860188.6,     670.9,     670.9,       0.0);         ( 491136.0,
3860188.6,     670.9,     670.9,       0.0);
     ( 490136.0, 3860238.6,     677.0,     677.0,       0.0);         ( 490186.0,
3860238.6,     677.1,     677.1,       0.0);
     ( 490236.0, 3860238.6,     676.8,     676.8,       0.0);         ( 490286.0,
3860238.6,     676.5,     676.5,       0.0);
     ( 490336.0, 3860238.6,     676.1,     676.1,       0.0);         ( 490386.0,
3860238.6,     675.6,     675.6,       0.0);
     ( 490436.0, 3860238.6,     675.3,     675.3,       0.0);         ( 490486.0,
3860238.6,     674.7,     674.7,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE  92
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                              *** DISCRETE CARTESIAN RECEPTORS ***
                                            (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                        (METERS)

     ( 490536.0, 3860238.6,     674.4,     674.4,       0.0);         ( 490586.0,
3860238.6,     674.2,     674.2,       0.0);
     ( 490636.0, 3860238.6,     674.0,     674.0,       0.0);         ( 490686.0,
3860238.6,     673.8,     673.8,       0.0);
```

```
     ( 490736.0, 3860238.6,     673.4,     673.4,       0.0);         ( 490786.0,
3860238.6,     673.1,     673.1,       0.0);
     ( 490836.0, 3860238.6,     672.7,     672.7,       0.0);         ( 490886.0,
3860238.6,     672.4,     672.4,       0.0);
     ( 490936.0, 3860238.6,     672.1,     672.1,       0.0);         ( 490986.0,
3860238.6,     672.6,     672.6,       0.0);
     ( 491036.0, 3860238.6,     672.0,     672.0,       0.0);         ( 491086.0,
3860238.6,     670.9,     670.9,       0.0);
     ( 491136.0, 3860238.6,     670.4,     670.4,       0.0);         ( 490136.0,
3860288.6,     676.6,     676.6,       0.0);
     ( 490186.0, 3860288.6,     676.5,     676.5,       0.0);         ( 490236.0,
3860288.6,     676.6,     676.6,       0.0);
     ( 490286.0, 3860288.6,     676.1,     676.1,       0.0);         ( 490336.0,
3860288.6,     675.7,     675.7,       0.0);
     ( 490386.0, 3860288.6,     675.4,     675.4,       0.0);         ( 490436.0,
3860288.6,     675.0,     675.0,       0.0);
     ( 490486.0, 3860288.6,     674.6,     674.6,       0.0);         ( 490536.0,
3860288.6,     674.1,     674.1,       0.0);
     ( 490586.0, 3860288.6,     673.7,     673.7,       0.0);         ( 490636.0,
3860288.6,     673.4,     673.4,       0.0);
     ( 490686.0, 3860288.6,     673.3,     673.3,       0.0);         ( 490736.0,
3860288.6,     673.1,     673.1,       0.0);
     ( 490786.0, 3860288.6,     672.9,     672.9,       0.0);         ( 490836.0,
3860288.6,     672.5,     672.5,       0.0);
     ( 490886.0, 3860288.6,     672.2,     672.2,       0.0);         ( 490936.0,
3860288.6,     671.7,     671.7,       0.0);
     ( 490986.0, 3860288.6,     671.9,     671.9,       0.0);         ( 491036.0,
3860288.6,     671.4,     671.4,       0.0);
     ( 491086.0, 3860288.6,     670.7,     670.7,       0.0);         ( 490136.0,
3860338.6,     676.2,     676.2,       0.0);
     ( 490186.0, 3860338.6,     676.1,     676.1,       0.0);         ( 490236.0,
3860338.6,     676.2,     676.2,       0.0);
     ( 490286.0, 3860338.6,     675.8,     675.8,       0.0);         ( 490336.0,
3860338.6,     675.4,     675.4,       0.0);
     ( 490386.0, 3860338.6,     675.1,     675.1,       0.0);         ( 490436.0,
3860338.6,     674.7,     674.7,       0.0);
     ( 490486.0, 3860338.6,     674.3,     674.3,       0.0);         ( 490536.0,
3860338.6,     674.0,     674.0,       0.0);
     ( 490586.0, 3860338.6,     673.5,     673.5,       0.0);         ( 490636.0,
3860338.6,     673.2,     673.2,       0.0);
     ( 490686.0, 3860338.6,     672.9,     672.9,       0.0);         ( 490736.0,
3860338.6,     672.7,     672.7,       0.0);
     ( 490786.0, 3860338.6,     672.9,     672.9,       0.0);         ( 490836.0,
3860338.6,     672.3,     672.3,       0.0);
     ( 490886.0, 3860338.6,     671.9,     671.9,       0.0);         ( 490936.0,
3860338.6,     671.4,     671.4,       0.0);
     ( 490986.0, 3860338.6,     670.8,     670.8,       0.0);         ( 491036.0,
3860338.6,     670.5,     670.5,       0.0);
     ( 491086.0, 3860338.6,     670.1,     670.1,       0.0);         ( 490136.0,
3860388.6,     675.7,     675.7,       0.0);
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```
     ( 490186.0, 3860388.6,     675.5,     675.5,       0.0);         ( 490236.0,
3860388.6,     675.6,     675.6,       0.0);
     ( 490286.0, 3860388.6,     675.3,     675.3,       0.0);         ( 490336.0,
3860388.6,     675.0,     675.0,       0.0);
     ( 490386.0, 3860388.6,     674.6,     674.6,       0.0);         ( 490436.0,
3860388.6,     674.3,     674.3,       0.0);
     ( 490486.0, 3860388.6,     674.1,     674.1,       0.0);         ( 490536.0,
3860388.6,     673.8,     673.8,       0.0);
     ( 490586.0, 3860388.6,     673.4,     673.4,       0.0);         ( 490636.0,
3860388.6,     672.9,     672.9,       0.0);
     ( 490686.0, 3860388.6,     672.8,     672.8,       0.0);         ( 490736.0,
3860388.6,     672.3,     672.3,       0.0);
     ( 490786.0, 3860388.6,     672.1,     672.1,       0.0);         ( 490836.0,
3860388.6,     672.0,     672.0,       0.0);
     ( 490136.0, 3860438.6,     675.0,     675.0,       0.0);         ( 490186.0,
3860438.6,     675.1,     675.1,       0.0);
     ( 490236.0, 3860438.6,     675.1,     675.1,       0.0);         ( 490286.0,
3860438.6,     674.9,     674.9,       0.0);
     ( 490336.0, 3860438.6,     674.5,     674.5,       0.0);         ( 490386.0,
3860438.6,     674.2,     674.2,       0.0);
     ( 490436.0, 3860438.6,     674.0,     674.0,       0.0);         ( 490486.0,
3860438.6,     673.6,     673.6,       0.0);
     ( 490536.0, 3860438.6,     673.4,     673.4,       0.0);         ( 490586.0,
3860438.6,     673.0,     673.0,       0.0);
     ( 490636.0, 3860438.6,     672.6,     672.6,       0.0);         ( 490686.0,
3860438.6,     672.3,     672.3,       0.0);
     ( 490736.0, 3860438.6,     672.2,     672.2,       0.0);         ( 490786.0,
3860438.6,     671.8,     671.8,       0.0);
     ( 490836.0, 3860438.6,     671.9,     671.9,       0.0);         ( 490136.0,
3860488.6,     674.9,     674.9,       0.0);
     ( 490186.0, 3860488.6,     674.9,     674.9,       0.0);         ( 490236.0,
3860488.6,     674.5,     674.5,       0.0);
     ( 490286.0, 3860488.6,     674.5,     674.5,       0.0);         ( 490336.0,
3860488.6,     674.1,     674.1,       0.0);
     ( 490386.0, 3860488.6,     673.9,     673.9,       0.0);         ( 490436.0,
3860488.6,     674.0,     674.0,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                 (METERS)

     ( 490486.0, 3860488.6,     673.6,     673.6,       0.0);         ( 490536.0,
3860488.6,     673.0,     673.0,       0.0);
```

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     ( 490586.0, 3860488.6,     672.5,     672.5,       0.0);         ( 490636.0,
3860488.6,     672.3,     672.3,       0.0);
     ( 490686.0, 3860488.6,     671.8,     671.8,       0.0);         ( 490736.0,
3860488.6,     671.6,     671.6,       0.0);
     ( 490786.0, 3860488.6,     671.4,     671.4,       0.0);         ( 490136.0,
3860538.6,     674.6,     674.6,       0.0);
     ( 490186.0, 3860538.6,     675.1,     675.1,       0.0);         ( 490236.0,
3860538.6,     674.2,     674.2,       0.0);
     ( 490286.0, 3860538.6,     673.9,     673.9,       0.0);         ( 490336.0,
3860538.6,     673.8,     673.8,       0.0);
     ( 490386.0, 3860538.6,     673.9,     673.9,       0.0);         ( 490436.0,
3860538.6,     673.7,     673.7,       0.0);
     ( 490486.0, 3860538.6,     673.6,     673.6,       0.0);         ( 490536.0,
3860538.6,     674.3,     674.3,       0.0);
     ( 490586.0, 3860538.6,     672.6,     672.6,       0.0);         ( 490636.0,
3860538.6,     672.0,     672.0,       0.0);
     ( 490686.0, 3860538.6,     671.7,     671.7,       0.0);         ( 490736.0,
3860538.6,     671.3,     671.3,       0.0);
     ( 490786.0, 3860538.6,     671.1,     671.1,       0.0);         ( 490136.0,
3860588.6,     675.0,     678.2,       0.0);
     ( 490186.0, 3860588.6,     672.9,     672.9,       0.0);         ( 490236.0,
3860588.6,     673.4,     673.4,       0.0);
     ( 490286.0, 3860588.6,     673.6,     673.6,       0.0);         ( 490336.0,
3860588.6,     673.4,     673.4,       0.0);
     ( 490386.0, 3860588.6,     673.1,     673.1,       0.0);         ( 490436.0,
3860588.6,     674.1,     674.1,       0.0);
     ( 490486.0, 3860588.6,     674.8,     674.8,       0.0);         ( 490536.0,
3860588.6,     674.1,     674.1,       0.0);
     ( 490586.0, 3860588.6,     671.9,     671.9,       0.0);         ( 490636.0,
3860588.6,     671.7,     671.7,       0.0);
     ( 490686.0, 3860588.6,     671.3,     671.3,       0.0);         ( 490736.0,
3860588.6,     671.0,     671.0,       0.0);
     ( 490786.0, 3860588.6,     670.5,     670.5,       0.0);         ( 490136.0,
3860638.6,     675.5,     678.2,       0.0);
     ( 490186.0, 3860638.6,     674.6,     674.6,       0.0);         ( 490236.0,
3860638.6,     673.3,     676.0,       0.0);
     ( 490286.0, 3860638.6,     672.8,     672.8,       0.0);         ( 490336.0,
3860638.6,     672.9,     672.9,       0.0);
     ( 490386.0, 3860638.6,     672.8,     672.8,       0.0);         ( 490436.0,
3860638.6,     672.4,     672.4,       0.0);
     ( 490486.0, 3860638.6,     672.3,     672.3,       0.0);         ( 490536.0,
3860638.6,     672.5,     672.5,       0.0);
     ( 490586.0, 3860638.6,     671.9,     671.9,       0.0);         ( 490636.0,
3860638.6,     671.6,     671.6,       0.0);
     ( 490686.0, 3860638.6,     671.2,     671.2,       0.0);         ( 490736.0,
3860638.6,     670.5,     670.5,       0.0);
     ( 490786.0, 3860638.6,     670.2,     670.2,       0.0);         ( 490136.0,
3860688.6,     674.4,     675.9,       0.0);
     ( 490186.0, 3860688.6,     675.8,     677.3,       0.0);         ( 490236.0,
3860688.6,     674.2,     674.2,       0.0);
```

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     ( 490286.0, 3860688.6,     672.1,     672.1,       0.0);         ( 490336.0,
3860688.6,     672.4,     672.4,       0.0);
     ( 490386.0, 3860688.6,     672.5,     672.5,       0.0);         ( 490436.0,
3860688.6,     672.1,     672.1,       0.0);
     ( 490486.0, 3860688.6,     671.5,     671.5,       0.0);         ( 490536.0,
3860688.6,     671.3,     671.3,       0.0);
     ( 490586.0, 3860688.6,     671.2,     671.2,       0.0);         ( 490636.0,
3860688.6,     671.1,     671.1,       0.0);
     ( 490686.0, 3860688.6,     671.2,     671.2,       0.0);         ( 490736.0,
3860688.6,     670.8,     670.8,       0.0);
     ( 490786.0, 3860688.6,     670.8,     670.8,       0.0);         ( 490136.0,
3860738.6,     672.7,     672.7,       0.0);
     ( 490186.0, 3860738.6,     671.9,     671.9,       0.0);         ( 490236.0,
3860738.6,     671.7,     671.7,       0.0);
     ( 490286.0, 3860738.6,     671.7,     671.7,       0.0);         ( 490336.0,
3860738.6,     671.7,     671.7,       0.0);
     ( 490386.0, 3860738.6,     671.8,     671.8,       0.0);         ( 490436.0,
3860738.6,     672.8,     672.8,       0.0);
     ( 490486.0, 3860738.6,     672.1,     672.1,       0.0);         ( 490536.0,
3860738.6,     670.6,     670.6,       0.0);
     ( 490586.0, 3860738.6,     670.2,     670.2,       0.0);         ( 490636.0,
3860738.6,     670.1,     670.1,       0.0);
     ( 490686.0, 3860738.6,     670.4,     670.4,       0.0);         ( 490736.0,
3860738.6,     670.6,     670.6,       0.0);
     ( 490786.0, 3860738.6,     671.1,     671.1,       0.0);         ( 490136.0,
3860788.6,     670.8,     670.8,       0.0);
     ( 490186.0, 3860788.6,     670.8,     670.8,       0.0);         ( 490236.0,
3860788.6,     670.7,     670.7,       0.0);
     ( 490286.0, 3860788.6,     670.7,     670.7,       0.0);         ( 490336.0,
3860788.6,     670.5,     670.5,       0.0);
     ( 490386.0, 3860788.6,     671.0,     671.0,       0.0);         ( 490436.0,
3860788.6,     670.9,     670.9,       0.0);
     ( 490486.0, 3860788.6,     671.4,     671.4,       0.0);         ( 490536.0,
3860788.6,     670.8,     670.8,       0.0);
     ( 490586.0, 3860788.6,     669.6,     669.6,       0.0);         ( 490636.0,
3860788.6,     669.2,     669.2,       0.0);
     ( 490686.0, 3860788.6,     669.2,     669.2,       0.0);         ( 490736.0,
3860788.6,     669.6,     669.6,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                         ***        01:16:45

                                    PAGE  94
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                      *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                              (METERS)
```

```
     ( 490786.0, 3860788.6,     669.3,     669.3,       0.0);         ( 489986.0,
3860838.6,     669.3,     669.3,       0.0);
     ( 490036.0, 3860838.6,     669.5,     669.5,       0.0);         ( 490086.0,
3860838.6,     670.0,     670.0,       0.0);
     ( 490136.0, 3860838.6,     670.3,     670.3,       0.0);         ( 490186.0,
3860838.6,     670.0,     670.0,       0.0);
     ( 490236.0, 3860838.6,     669.9,     669.9,       0.0);         ( 490286.0,
3860838.6,     670.0,     670.0,       0.0);
     ( 490336.0, 3860838.6,     669.7,     669.7,       0.0);         ( 490386.0,
3860838.6,     669.6,     669.6,       0.0);
     ( 490436.0, 3860838.6,     669.9,     669.9,       0.0);         ( 490486.0,
3860838.6,     670.1,     670.1,       0.0);
     ( 490536.0, 3860838.6,     669.9,     669.9,       0.0);         ( 490586.0,
3860838.6,     669.3,     669.3,       0.0);
     ( 490636.0, 3860838.6,     668.7,     668.7,       0.0);         ( 490686.0,
3860838.6,     668.6,     668.6,       0.0);
     ( 490736.0, 3860838.6,     668.8,     668.8,       0.0);         ( 490786.0,
3860838.6,     668.9,     668.9,       0.0);
     ( 490836.0, 3860838.6,     668.7,     668.7,       0.0);         ( 489836.0,
3860888.6,     668.6,     668.6,       0.0);
     ( 489886.0, 3860888.6,     668.7,     668.7,       0.0);         ( 489936.0,
3860888.6,     668.8,     668.8,       0.0);
     ( 489986.0, 3860888.6,     669.0,     669.0,       0.0);         ( 490036.0,
3860888.6,     669.3,     669.3,       0.0);
     ( 490086.0, 3860888.6,     669.6,     669.6,       0.0);         ( 490136.0,
3860888.6,     669.7,     669.7,       0.0);
     ( 490186.0, 3860888.6,     669.4,     669.4,       0.0);         ( 490236.0,
3860888.6,     669.4,     669.4,       0.0);
     ( 490286.0, 3860888.6,     669.2,     669.2,       0.0);         ( 490336.0,
3860888.6,     669.0,     669.0,       0.0);
     ( 490386.0, 3860888.6,     669.1,     669.1,       0.0);         ( 490436.0,
3860888.6,     669.4,     669.4,       0.0);
     ( 490486.0, 3860888.6,     669.3,     669.3,       0.0);         ( 490536.0,
3860888.6,     669.1,     669.1,       0.0);
     ( 490586.0, 3860888.6,     668.8,     668.8,       0.0);         ( 490636.0,
3860888.6,     668.2,     668.2,       0.0);
     ( 490686.0, 3860888.6,     668.0,     668.0,       0.0);         ( 490736.0,
3860888.6,     667.8,     667.8,       0.0);
     ( 490786.0, 3860888.6,     667.5,     667.5,       0.0);         ( 490836.0,
3860888.6,     667.6,     667.6,       0.0);
     ( 490886.0, 3860888.6,     668.0,     668.0,       0.0);         ( 490936.0,
3860888.6,     667.9,     667.9,       0.0);
     ( 489836.0, 3860938.6,     668.1,     668.1,       0.0);         ( 489886.0,
3860938.6,     668.1,     668.1,       0.0);
     ( 489936.0, 3860938.6,     668.3,     668.3,       0.0);         ( 489986.0,
3860938.6,     668.5,     668.5,       0.0);
     ( 490036.0, 3860938.6,     668.6,     668.6,       0.0);         ( 490086.0,
3860938.6,     668.7,     668.7,       0.0);
     ( 490136.0, 3860938.6,     668.4,     668.4,       0.0);         ( 490186.0,
3860938.6,     668.5,     668.5,       0.0);
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     ( 490236.0, 3860938.6,     668.6,     668.6,       0.0);         ( 490286.0,
3860938.6,     668.7,     668.7,       0.0);
     ( 490336.0, 3860938.6,     668.4,     668.4,       0.0);         ( 490386.0,
3860938.6,     668.6,     668.6,       0.0);
     ( 490436.0, 3860938.6,     668.8,     668.8,       0.0);         ( 490486.0,
3860938.6,     668.7,     668.7,       0.0);
     ( 490536.0, 3860938.6,     668.6,     668.6,       0.0);         ( 490586.0,
3860938.6,     668.2,     668.2,       0.0);
     ( 490636.0, 3860938.6,     667.8,     667.8,       0.0);         ( 490686.0,
3860938.6,     667.5,     667.5,       0.0);
     ( 490736.0, 3860938.6,     667.2,     667.2,       0.0);         ( 490786.0,
3860938.6,     667.0,     667.0,       0.0);
     ( 490836.0, 3860938.6,     667.3,     667.3,       0.0);         ( 490886.0,
3860938.6,     667.7,     667.7,       0.0);
     ( 490936.0, 3860938.6,     667.6,     667.6,       0.0);         ( 489836.0,
3860988.6,     668.0,     668.0,       0.0);
     ( 489886.0, 3860988.6,     668.0,     668.0,       0.0);         ( 489936.0,
3860988.6,     668.1,     668.1,       0.0);
     ( 489986.0, 3860988.6,     668.2,     668.2,       0.0);         ( 490036.0,
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     ( 490086.0, 3860988.6,     668.3,     668.3,       0.0);         ( 490136.0,
3860988.6,     668.2,     668.2,       0.0);
     ( 490186.0, 3860988.6,     668.4,     668.4,       0.0);         ( 490236.0,
3860988.6,     668.0,     668.0,       0.0);
     ( 490286.0, 3860988.6,     667.9,     667.9,       0.0);         ( 490336.0,
3860988.6,     667.9,     667.9,       0.0);
     ( 490386.0, 3860988.6,     667.9,     667.9,       0.0);         ( 490436.0,
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3860988.6,     667.4,     667.4,       0.0);
     ( 490686.0, 3860988.6,     667.0,     667.0,       0.0);         ( 490736.0,
3860988.6,     666.6,     666.6,       0.0);
     ( 490786.0, 3860988.6,     666.4,     666.4,       0.0);         ( 490836.0,
3860988.6,     666.5,     666.5,       0.0);
     ( 490886.0, 3860988.6,     666.9,     666.9,       0.0);         ( 490936.0,
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     ( 489836.0, 3861038.6,     667.8,     667.8,       0.0);         ( 489886.0,
3861038.6,     667.9,     667.9,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE  95
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                                   (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
```

(METERS)

(489936.0, 3861038.6, 667.7, 667.7, 0.0); (489986.0, 3861038.6, 667.6, 667.6, 0.0);
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(490136.0, 3861038.6, 667.7, 667.7, 0.0); (490186.0, 3861038.6, 667.6, 667.6, 0.0);
(490236.0, 3861038.6, 667.7, 667.7, 0.0); (490286.0, 3861038.6, 667.4, 667.4, 0.0);
(490336.0, 3861038.6, 667.2, 667.2, 0.0); (490386.0, 3861038.6, 667.5, 667.5, 0.0);
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(490786.0, 3861088.6, 665.5, 665.5, 0.0); (490836.0, 3861088.6, 665.4, 665.4, 0.0);
(490886.0, 3861088.6, 665.3, 665.3, 0.0); (490936.0, 3861088.6, 665.4, 665.4, 0.0);
(489020.8, 3862564.8, 665.1, 665.1, 0.0); (489043.1, 3862350.2, 664.6, 664.6, 0.0);
(489073.0, 3862287.6, 664.8, 664.8, 0.0); (488980.5, 3862078.9, 665.3, 665.3, 0.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

1 1 1

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\..\Metdata\KDAG_723815_23161 (3)\KDAG_723815_23161\KDAG_2015_2016_2018-2020_A Met Version: 19191
Profile file: ..\..\Metdata\KDAG_723815_23161 (3)\KDAG_723815_23161\KDAG_2015_2016_2018-2020_A
Surface format: FREE

Profile format: FREE

Surface station no.: 23161 Upper air station no.: 3120
Name: DAGGETT/FAA_AIRPORT Name: UNKNOWN

Year: 2015 Year: 2015

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
15	01	01	1	01	-24.9	0.256	-9.000	-9.000	-999.	311.	72.1	0.02	4.18	1.00	4.27	251.	10.0	272.5	2.0
15	01	01	1	02	-24.3	0.250	-9.000	-9.000	-999.	300.	68.6	0.02	4.18	1.00	4.17	240.	10.0	272.5	2.0
15	01	01	1	03	-28.4	0.292	-9.000	-9.000	-999.	379.	94.0	0.02	4.18	1.00	4.85	255.	10.0	273.1	2.0
15	01	01	1	04	-26.1	0.266	-9.000	-9.000	-999.	329.	77.8	0.02	4.18	1.00	4.51	274.	10.0	270.4	2.0
15	01	01	1	05	-32.2	0.328	-9.000	-9.000	-999.	450.	118.0	0.02	4.18	1.00	5.51	275.	10.0	270.4	2.0
15	01	01	1	06	-34.9	0.355	-9.000	-9.000	-999.	507.	138.4	0.02	4.18	1.00	5.84	252.	10.0	270.4	2.0
15	01	01	1	07	-34.8	0.355	-9.000	-9.000	-999.	508.	138.9	0.02	4.18	1.00	5.85	251.	10.0	271.4	2.0
15	01	01	1	08	-19.3	0.250	-9.000	-9.000	-999.	306.	68.6	0.02	4.18	0.57	4.15	266.	10.0	270.9	2.0
15	01	01	1	09	31.4	0.236	0.499	0.005	134.	276.	-35.7	0.02	4.18	0.36	3.40	255.	10.0	273.1	2.0
15	01	01	1	10	103.0	0.183	1.101	0.005	441.	188.	-5.0	0.02	4.18	0.29	2.15	300.	10.0	277.0	2.0
15	01	01	1	11	152.0	0.131	1.445	0.005	675.	114.	-1.3	0.04	4.18	0.26	1.08	230.	10.0	278.8	2.0
15	01	01	1	12	175.1	0.131	2.058	0.006	1692.	114.	-1.1	0.02	4.18	0.25	1.31	109.	10.0	280.4	2.0
15	01	01	1	13	171.2	0.143	2.108	0.011	1860.	130.	-1.4	0.01	4.18	0.26	1.55	35.	10.0	281.4	2.0
15	01	01	1	14	140.5	0.177	1.982	0.011	1882.	179.	-3.4	0.01	4.18	0.27	2.16	55.	10.0	282.0	2.0

```
 15 01 01   1 15   84.4  0.150  1.677  0.011 1895.  139.     -3.4  0.02   4.18
0.30    1.77   64.   10.0  282.5    2.0
 15 01 01   1 16    8.8  0.148  0.789  0.010 1896.  136.    -31.1  0.02   4.18
0.40    2.15   70.   10.0  282.5    2.0
 15 01 01   1 17   -7.9  0.117 -9.000 -9.000 -999.   96.     17.3  0.02   4.18
0.70    2.08   75.   10.0  279.9    2.0
 15 01 01   1 18   -3.9  0.085 -9.000 -9.000 -999.   60.     13.5  0.05   4.18
1.00    1.24  196.   10.0  277.0    2.0
 15 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.03   4.18
1.00    0.00    0.   10.0  274.9    2.0
 15 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.03   4.18
1.00    0.00    0.   10.0  274.9    2.0
 15 01 01   1 21  -10.8  0.137 -9.000 -9.000 -999.  121.     20.5  0.02   4.18
1.00    2.36  260.   10.0  274.2    2.0
 15 01 01   1 22  -19.5  0.199 -9.000 -9.000 -999.  214.     43.7  0.02   4.18
1.00    3.36  262.   10.0  272.0    2.0
 15 01 01   1 23  -18.8  0.192 -9.000 -9.000 -999.  202.     40.5  0.04   4.18
1.00    2.86  230.   10.0  272.0    2.0
 15 01 01   1 24  -28.1  0.287 -9.000 -9.000 -999.  370.     90.9  0.02   4.18
1.00    4.86  270.   10.0  272.0    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 15 01 01 01   10.0 1  251.    4.27   272.6   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE  98
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                  INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
```

**

Y-COORD (METERS)	X-COORD (METERS)				
	489237.26	489256.56	489275.86	489295.16	489314.46
489333.76	489353.06	489372.36	489391.66		
3859957.07	0.35306	0.34911	0.35010	0.34960	0.34576
0.33775	0.32965	0.31862	0.30735		
3859937.65	0.34395	0.33967	0.33999	0.33853	0.33473
0.33024	0.32426	0.31351	0.30127		
3859918.23	0.33178	0.32886	0.32905	0.32655	0.32374
0.32080	0.31507	0.30302	0.29126		
3859898.81	0.32274	0.32038	0.31953	0.31832	0.31570
0.31280	0.30723	0.29851	0.28710		
3859879.39	0.31446	0.31247	0.31325	0.31247	0.31040
0.30677	0.30106	0.29437	0.28532		
3859859.97	0.30535	0.30337	0.30365	0.30279	0.30068
0.29707	0.29189	0.28585	0.27821		
3859840.55	0.29635	0.29434	0.29416	0.29322	0.29143
0.28784	0.28276	0.27823	0.27140		
3859821.13	0.28746	0.28539	0.28375	0.28181	0.28024
0.27741	0.27370	0.26837	0.26348		
3859801.71	0.27790	0.27653	0.27550	0.27318	0.27190
0.27065	0.26543	0.26150	0.25719		
3859782.29	0.26914	0.26775	0.26762	0.26390	0.26361
0.26264	0.25754	0.25372	0.24956		
3859762.87	0.26172	0.26030	0.25897	0.25639	0.25465
0.25211	0.24888	0.24284	0.23877		
3859743.45	0.25462	0.25317	0.25149	0.24921	0.24711
0.24457	0.24105	0.23587	0.23076		
3859724.03	0.24754	0.24634	0.24463	0.24233	0.24021
0.23737	0.23312	0.22955	0.22543		
3859704.61	0.24077	0.23852	0.23805	0.23573	0.23389
0.23139	0.22802	0.22426	0.21953		
3859685.19	0.23428	0.23228	0.23201	0.23058	0.22876
0.22604	0.22177	0.21706	0.21323		
3859665.77	0.22830	0.22655	0.22690	0.22654	0.22388
0.22022	0.21578	0.20986	0.20508		
3859646.35	0.22179	0.22054	0.21962	0.21863	0.21563
0.21291	0.20877	0.20430	0.19969		
3859626.93	0.21545	0.21476	0.21274	0.21167	0.20856
0.20585	0.20302	0.19897	0.19351		
3859607.51	0.20994	0.20870	0.20741	0.20514	0.20296
0.19962	0.19683	0.19356	0.18827		
3859588.09	0.20370	0.20228	0.20117	0.19892	0.19669
0.19335	0.18968	0.18647	0.18161		
3859568.67	0.19783	0.19617	0.19523	0.19287	0.18974
0.18578	0.18308	0.17964	0.17522		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489410.96	489430.26	489449.56	489468.86	489488.16	489507.46	489526.76	489546.06	489565.36
3859957.07	0.29543	0.28419	0.27099	0.26092	0.24932	0.24046	0.23709	0.23477	0.23180
3859937.65	0.29070	0.28080	0.26977	0.26163	0.25504	0.24930	0.24745	0.24494	0.24177
3859918.23	0.28045	0.26887	0.26043	0.25474	0.24908	0.24422	0.24228	0.23906	0.23524
3859898.81	0.27471	0.26437	0.25431	0.24680	0.24199	0.23925	0.23725	0.23271	0.23032
3859879.39	0.27359	0.26304	0.24970	0.23927	0.23524	0.23571	0.23302	0.22729	0.22551
3859859.97	0.26962	0.25988	0.24878	0.24008	0.23493	0.23280	0.22950	0.22449	0.22325
3859840.55	0.26324	0.25646	0.24678	0.23814	0.23201	0.22756	0.22371	0.22054	0.21865
3859821.13	0.25704	0.24874	0.23944	0.23223	0.22686	0.22085	0.21707	0.21448	0.21257
3859801.71	0.25149	0.24499	0.23724	0.22854	0.22137	0.21608	0.21182	0.20870	0.20730
3859782.29	0.24532	0.23996	0.23394	0.22535	0.21560				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***

INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)
	489584.66 489603.96 489623.26

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    (METERS) |     489260.34    489284.99    489309.64    489334.29    489358.94
489383.59    489408.24    489432.89    489457.54
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

  3859173.42 |       0.11814      0.11522      0.11418      0.11261      0.11041
 0.10877      0.10707      0.10522      0.10313
  3859151.85 |       0.11546      0.11373      0.11194      0.11005      0.10793
 0.10637      0.10475      0.10297      0.10095
  3859130.28 |       0.11322      0.11170      0.10959      0.10758      0.10555
 0.10387      0.10250      0.10061      0.09884
  3859108.71 |       0.11106      0.10938      0.10714      0.10501      0.10306
 0.10164      0.10033      0.09834      0.09663
  3859087.14 |       0.10878      0.10677      0.10477      0.10271      0.10084
 0.09965      0.09806      0.09631      0.09449
  3859065.57 |       0.10640      0.10443      0.10248      0.10032      0.09869
 0.09740      0.09570      0.09435      0.09276
  3859044.00 |       0.10393      0.10199      0.10010      0.09818      0.09645
 0.09522      0.09359      0.09246      0.09107
  3859022.43 |       0.10171      0.09980      0.09796      0.09610      0.09445
 0.09327      0.09203      0.09078      0.08929
  3859000.86 |       0.09923      0.09752      0.09589      0.09410      0.09251
 0.09124      0.09004      0.08900      0.08755
  3858979.29 |       0.09699      0.09531      0.09388      0.09216      0.09063
 0.08927      0.08828      0.08727      0.08602
  3858957.72 |       0.09512      0.09348      0.09179      0.09044      0.08897
 0.08766      0.08656      0.08560      0.08453
  3858936.15 |       0.09316      0.09155      0.08992      0.08847      0.08706
 0.08581      0.08476      0.08369      0.08267
  3858914.58 |       0.09125      0.08954      0.08795      0.08656      0.08536
 0.08416      0.08316      0.08213      0.08100
  3858893.01 |       0.08941      0.08759      0.08591      0.08472      0.08385
 0.08270      0.08146      0.08061      0.07951
  3858871.44 |       0.08775      0.08598      0.08421      0.08307      0.08198
 0.08101      0.07996      0.07913      0.07794
  3858849.87 |       0.08615      0.08428      0.08271      0.08148      0.08043
 0.07938      0.07849      0.07757      0.07642
  3858828.30 |       0.08432      0.08263      0.08111      0.08007      0.07893
 0.07792      0.07695      0.07606      0.07506
  3858806.73 |       0.08267      0.08103      0.07956      0.07856      0.07748
 0.07638      0.07519      0.07459      0.07362
  3858785.16 |       0.08095      0.07948      0.07819      0.07710      0.07619
 0.07513      0.07399      0.07328      0.07223
  3858763.59 |       0.07927      0.07784      0.07660      0.07556      0.07469
 0.07380      0.07293      0.07201      0.07099
  3858742.02 |       0.07739      0.07600      0.07481      0.07382      0.07300
 0.07227      0.07144      0.07078      0.06978
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***

INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489482.19	489506.84	489531.49	489556.14	489580.79	489605.44	489630.09	489654.74	489679.39
3859173.42	0.10090	0.09871	0.09641	0.09487	0.09270	0.09119	0.09006	0.08940	0.08942
3859151.85	0.09897	0.09666	0.09442	0.09254	0.09078	0.08964	0.08831	0.08760	0.08737
3859130.28	0.09693	0.09468	0.09268	0.09066	0.08910	0.08778	0.08643	0.08569	0.08522
3859108.71	0.09495	0.09277	0.09082	0.08902	0.08730	0.08563	0.08463	0.08349	0.08315
3859087.14	0.09304	0.09142	0.08919	0.08743	0.08539	0.08373	0.08271	0.08173	0.08134
3859065.57	0.09135	0.08962	0.08761	0.08555	0.08372	0.08190	0.08087	0.07986	0.07943
3859044.00	0.08955	0.08771	0.08607	0.08390	0.08210	0.08030	0.07926	0.07822	0.07759
3859022.43	0.08765	0.08602	0.08427	0.08262	0.08054	0.07876	0.07754	0.07649	0.07582
3859000.86	0.08612	0.08423	0.08267	0.08106	0.07902	0.07726	0.07604	0.07498	0.07411
3858979.29	0.08448	0.08265	0.08098	0.07941	0.07771	0.07597	0.07460	0.07336	0.07247
3858957.72	0.08290	0.08125	0.07949	0.07765	0.07643	0.07472	0.07305	0.07196	0.07104

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  3858936.15 |       0.08122      0.07976      0.07804      0.07625      0.07475
 0.07321      0.07171      0.07060      0.06951
  3858914.58 |       0.07973      0.07845      0.07677      0.07488      0.07313
 0.07175      0.07040      0.06915      0.06819
  3858893.01 |       0.07828      0.07717      0.07540      0.07369      0.07184
 0.07020      0.06914      0.06788      0.06690
  3858871.44 |       0.07674      0.07540      0.07380      0.07227      0.07059
 0.06884      0.06778      0.06652      0.06567
  3858849.87 |       0.07525      0.07394      0.07251      0.07101      0.06937
 0.06779      0.06660      0.06521      0.06434
  3858828.30 |       0.07393      0.07265      0.07114      0.06980      0.06832
 0.06663      0.06545      0.06407      0.06318
  3858806.73 |       0.07264      0.07128      0.06980      0.06849      0.06717
 0.06551      0.06409      0.06284      0.06207
  3858785.16 |       0.07115      0.06994      0.06849      0.06710      0.06580
 0.06430      0.06302      0.06152      0.06086
  3858763.59 |       0.06982      0.06864      0.06723      0.06586      0.06460
 0.06312      0.06198      0.06049      0.05970
  3858742.02 |       0.06865      0.06738      0.06624      0.06490      0.06343
 0.06174      0.06108      0.05973      0.05881
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 103
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                   L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                   L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                   L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                    *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     489704.04    489728.69    489753.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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  3859173.42 |       0.08972      0.09046      0.09136
  3859151.85 |       0.08742      0.08809      0.08895
  3859130.28 |       0.08521      0.08582      0.08662
  3859108.71 |       0.08327      0.08346      0.08420
  3859087.14 |       0.08122      0.08153      0.08239
  3859065.57 |       0.07943      0.07968      0.08047
  3859044.00 |       0.07753      0.07773      0.07846
  3859022.43 |       0.07571      0.07585      0.07652
  3859000.86 |       0.07380      0.07388      0.07465
  3858979.29 |       0.07211      0.07214      0.07285
  3858957.72 |       0.07079      0.07077      0.07096
  3858936.15 |       0.06922      0.06915      0.06929
  3858914.58 |       0.06771      0.06759      0.06768
  3858893.01 |       0.06639      0.06609      0.06627
  3858871.44 |       0.06512      0.06464      0.06477
  3858849.87 |       0.06376      0.06338      0.06346
  3858828.30 |       0.06258      0.06216      0.06207
  3858806.73 |       0.06144      0.06099      0.06098
  3858785.16 |       0.06008      0.05972      0.05980
  3858763.59 |       0.05890      0.05851      0.05854
  3858742.02 |       0.05812      0.05733      0.05732
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 104
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                    *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     488584.66    488614.48    488644.30    488674.12    488703.94
488733.76    488763.58    488793.40    488823.22
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

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 3858904.98 | 0.08923   0.08761   0.08583   0.08506   0.08433
0.08405   0.08432   0.08577   0.08681
 3858880.05 | 0.08685   0.08496   0.08347   0.08331   0.08177
0.08197   0.08304   0.08413   0.08562
 3858855.12 | 0.08417   0.08298   0.08083   0.08000   0.08019
0.08036   0.08228   0.08289   0.08400
 3858830.19 | 0.08173   0.08100   0.07808   0.07740   0.07893
0.07975   0.08073   0.08168   0.08264
 3858805.26 | 0.07711   0.07554   0.07656   0.07674   0.07773
0.07836   0.07925   0.08018   0.08121
 3858780.33 | 0.07702   0.07603   0.07525   0.07543   0.07602
0.07693   0.07781   0.07871   0.07970
 3858755.40 | 0.07546   0.07520   0.07390   0.07418   0.07484
0.07555   0.07653   0.07740   0.07823
 3858730.47 | 0.07379   0.07301   0.07252   0.07310   0.07380
0.07452   0.07537   0.07621   0.07690
 3858705.54 | 0.07167   0.07169   0.07121   0.07187   0.07270
0.07352   0.07425   0.07495   0.07570
 3858680.61 | 0.07010   0.07034   0.06967   0.07039   0.07125
0.07225   0.07315   0.07381   0.07453
 3858655.68 | 0.06810   0.06857   0.06891   0.06946   0.07023
0.07103   0.07189   0.07251   0.07329
 3858630.75 | 0.06661   0.06718   0.06769   0.06838   0.06915
0.06992   0.07074   0.07133   0.07207
 3858605.82 | 0.06521   0.06586   0.06654   0.06734   0.06810
0.06884   0.06962   0.07008   0.07078
 3858580.89 | 0.06399   0.06472   0.06543   0.06633   0.06699
0.06770   0.06844   0.06895   0.06943
 3858555.96 | 0.06322   0.06380   0.06445   0.06526   0.06599
0.06658   0.06710   0.06766   0.06830
 3858531.03 | 0.06194   0.06267   0.06351   0.06431   0.06501
0.06565   0.06597   0.06666   0.06729
 3858506.10 | 0.06099   0.06175   0.06244   0.06323   0.06390
0.06450   0.06502   0.06551   0.06612
 3858481.17 | 0.06000   0.06079   0.06141   0.06225   0.06288
0.06344   0.06393   0.06439   0.06498
 3858456.24 | 0.05906   0.05979   0.06056   0.06137   0.06197
0.06240   0.06285   0.06329   0.06387
 3858431.31 | 0.05816   0.05890   0.05972   0.06050   0.06106
0.06154   0.06188   0.06213   0.06278
 3858406.38 | 0.05745   0.05811   0.05905   0.05973   0.06017
0.06054   0.06093   0.06117   0.06173

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	488853.04	488882.86	488912.68	488942.50	488972.32	489002.14	489031.96	489061.78	489091.60
3858904.98	0.08775	0.08932	0.09042	0.09199	0.09283	0.09400	0.09527	0.09637	0.09710
3858880.05	0.08641	0.08756	0.08862	0.09014	0.09123	0.09225	0.09349	0.09454	0.09521
3858855.12	0.08498	0.08597	0.08687	0.08835	0.08942	0.09043	0.09188	0.09288	0.09337
3858830.19	0.08359	0.08442	0.08516	0.08649	0.08730	0.08891	0.09020	0.09115	0.09136
3858805.26	0.08211	0.08302	0.08387	0.08481	0.08514	0.08720	0.08846	0.08925	0.08984
3858780.33	0.08033	0.08109	0.08190	0.08307	0.08400	0.08532	0.08667	0.08752	0.08805
3858755.40	0.07894	0.07955	0.08046	0.08162	0.08277	0.08384	0.08504	0.08585	0.08620
3858730.47	0.07779	0.07838	0.07929	0.08032	0.08146	0.08252	0.08367	0.08422	0.08450
3858705.54	0.07656	0.07725	0.07804	0.07895	0.08008	0.08133	0.08234	0.08293	0.08315
3858680.61	0.07504	0.07560	0.07660	0.07763	0.07875	0.07988	0.08094	0.08168	0.08192
3858655.68	0.07388	0.07443	0.07532	0.07634	0.07766	0.07866	0.07958	0.08007	0.08034
3858630.75	0.07264	0.07319	0.07418	0.07510	0.07640	0.07738	0.07826	0.07869	0.07881
3858605.82	0.07133	0.07198	0.07307	0.07399	0.07518				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489121.42	489151.24	489181.06
3858904.98	0.09730	0.09697	0.09557
3858880.05	0.09533	0.09468	0.09348
3858855.12	0.09330	0.09258	0.09133

```
  3858830.19 |       0.09122      0.09078      0.08924
  3858805.26 |       0.08964      0.08868      0.08721
  3858780.33 |       0.08788      0.08698      0.08536
  3858755.40 |       0.08607      0.08510      0.08367
  3858730.47 |       0.08430      0.08327      0.08181
  3858705.54 |       0.08258      0.08149      0.07999
  3858680.61 |       0.08120      0.08018      0.07834
  3858655.68 |       0.07985      0.07869      0.07685
  3858630.75 |       0.07844      0.07734      0.07549
  3858605.82 |       0.07687      0.07573      0.07397
  3858580.89 |       0.07525      0.07397      0.07238
  3858555.96 |       0.07377      0.07253      0.07104
  3858531.03 |       0.07240      0.07113      0.06954
  3858506.10 |       0.07115      0.06977      0.06817
  3858481.17 |       0.06976      0.06844      0.06684
  3858456.24 |       0.06841      0.06715      0.06545
  3858431.31 |       0.06716      0.06571      0.06410
  3858406.38 |       0.06578      0.06447      0.06288
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                    *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     489386.10    489460.62    489535.14    489609.66    489684.18
489758.70    489833.22    489907.74    489982.26
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

  3861675.76 |       0.68377      0.68232      0.67577      0.68276      0.68487
```

0.68321 0.68772 0.70128 0.71570
3861650.62 | 0.72409 0.71924 0.71923 0.72623 0.72677
0.72297 0.72913 0.74689 0.75589
3861625.48 | 0.76722 0.75639 0.75982 0.76778 0.76981
0.76976 0.77587 0.79901 0.80596
3861600.34 | 0.81230 0.80785 0.80299 0.81311 0.82360
0.82909 0.83184 0.84946 0.86773
3861575.20 | 0.87878 0.85394 0.84776 0.86275 0.87521
0.87519 0.88536 0.90163 0.92839
3861550.06 | 0.93596 0.90705 0.90437 0.91472 0.91724
0.92126 0.93993 0.96480 0.98933
3861524.92 | 0.99479 0.96848 0.96413 0.96912 0.97007
0.97879 1.00298 1.03206 1.05110
3861499.78 | 1.05975 1.03356 1.02716 1.03365 1.03905
1.04446 1.07599 1.10776 1.13161
3861474.64 | 1.13174 1.10417 1.09690 1.10718 1.11994
1.12129 1.15917 1.19159 1.22715
3861449.50 | 1.20802 1.18280 1.17442 1.18417 1.19194
1.21495 1.25419 1.28453 1.30106
3861424.36 | 1.29718 1.27281 1.25898 1.26870 1.28849
1.31397 1.36302 1.40550 1.39272
3861399.22 | 1.39730 1.36959 1.35158 1.37082 1.39877
1.43092 1.48793 1.51005 1.49552
3861374.08 | 1.50777 1.47622 1.46080 1.48754 1.52062
1.56257 1.62471 1.62568 1.61211
3861348.94 | 1.63298 1.59976 1.58517 1.61645 1.65577
1.71118 1.76929 1.76134 1.74647
3861323.80 | 1.77583 1.75005 1.73401 1.76562 1.81827
1.88514 1.92128 1.91957 1.90445
3861298.66 | 1.94347 1.92024 1.90709 1.94305 2.02178
2.08617 2.11135 2.10421 2.09937
3861273.52 | 2.14581 2.11427 2.10267 2.16374 2.23951
2.31923 2.33667 2.32730 2.32868
3861248.38 | 2.39726 2.35071 2.33001 2.41851 2.50127
2.58244 2.60434 2.59184 2.59422
3861223.24 | 2.70324 2.64790 2.60740 2.71494 2.81318
2.89625 2.92038 2.90747 2.91572
3861198.10 | 3.07428 3.01519 2.95622 3.06897 3.19341
3.27145 3.29723 3.29743 3.30935
3861172.96 | 3.53042 3.46961 3.37434 3.51669 3.65597
3.73074 3.76730 3.77928 3.77792

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: LOADING1 ***
                                INCLUDING SOURCE(S):   L0000149   , L0000150
, L0000151   , L0000152   , L0000153   ,
                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158
, L0000159   , L0000160   , L0000161   ,
                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166
, L0000167   , L0000168   , L0000169   ,
                  L0000170   , L0000171   , L0000172   , L0000173   , L0000174
, L0000175   ,

                                 *** NETWORK ID: UCART4   ; NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 490056.78   490131.30   490205.82   490280.34   490354.86
490429.38   490503.90   490578.42   490652.94
 -
- -

  3861675.76 | 0.72833   0.73414   0.72796   0.72081   0.71301
 0.70177   0.69381   0.69080   0.69915
  3861650.62 | 0.76828   0.77398   0.77076   0.76628   0.74678
 0.73564   0.72942   0.73632   0.75137
  3861625.48 | 0.81680   0.82350   0.82133   0.81734   0.79119
 0.78160   0.77714   0.79121   0.80776
  3861600.34 | 0.87715   0.88143   0.87729   0.86709   0.85203
 0.84422   0.84272   0.84982   0.85982
  3861575.20 | 0.93005   0.92904   0.92803   0.91259   0.89642
 0.89277   0.89777   0.91019   0.91657
  3861550.06 | 0.98842   0.99400   0.98200   0.96903   0.95043
 0.95820   0.95993   0.97254   0.97765
  3861524.92 | 1.05856   1.05496   1.03719   1.02918   1.02163
 1.02294   1.03009   1.04058   1.04271
  3861499.78 | 1.13131   1.11669   1.10691   1.10307   1.10028
 1.09816   1.10622   1.11291   1.11055
  3861474.64 | 1.20274   1.18925   1.19349   1.18982   1.17982
 1.18863   1.19058   1.18887   1.17896
  3861449.50 | 1.28211   1.28949   1.28410   1.27233   1.26784
 1.28054   1.28298   1.27143   1.25082
  3861424.36 | 1.37285   1.36718   1.37917   1.37245   1.37125
 1.38232   1.37189   1.35514   1.32446
  3861399.22 | 1.47327   1.46906   1.48063   1.48396   1.48660
 1.48799   1.46712   1.43980   1.40030
  3861374.08 | 1.59209   1.59414   1.61115   1.61214   1.61158
 1.60071   1.56942   1.53115   1.48289
  3861348.94 | 1.73131   1.73874   1.76740   1.75898   1.74687
 1.71891   1.67690   1.62623   1.57080

```
  3861323.80 |       1.89483      1.90942      1.92624      1.92285      1.89628
 1.84867      1.79066      1.72749      1.66489
  3861298.66 |       2.09091      2.12313      2.11523      2.09927      2.04857
 1.98848      1.91581      1.84787      1.76428
  3861273.52 |       2.31967      2.34169      2.33234      2.28785      2.21266
 2.14265      2.04863      1.96354      1.87569
  3861248.38 |       2.59588      2.59457      2.56500      2.48666      2.39116
 2.30017      2.19420      2.10850      1.99290
  3861223.24 |       2.92005      2.88712      2.81932      2.71867      2.58993
 2.47571      2.35808      2.25999      2.11865
  3861198.10 |       3.28911      3.21182      3.10236      2.98169      2.80657
 2.67645      2.53647      2.40444      2.25181
  3861172.96 |       3.71753      3.55836      3.41210      3.23496      3.04246
 2.87613      2.71611      2.55233      2.38653
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 109
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                  INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                   *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     490727.46    490801.98    490876.50
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3861675.76 |       0.71906      0.72346      0.73200
  3861650.62 |       0.76969      0.77395      0.77990
  3861625.48 |       0.81597      0.82135      0.82141
  3861600.34 |       0.86625      0.87008      0.86322
  3861575.20 |       0.92111      0.91972      0.90727
  3861550.06 |       0.97746      0.97077      0.95248
```

  3861693.54 | 0.61769   0.61285   0.60871   0.60163   0.59563   0.58971   0.58480   0.58025   0.57572
  3861664.09 | 0.64128   0.63572   0.62916   0.62373   0.61800   0.61234   0.60674   0.60088   0.59478

```
  3861634.64 |       0.66692      0.66056      0.65390      0.64804      0.64189
 0.63477      0.63012      0.62351      0.61665
  3861605.19 |       0.69319      0.68712      0.67995      0.67326      0.66736
 0.66008      0.65396      0.64721      0.64054
  3861575.74 |       0.72168      0.71468      0.70696      0.70011      0.69257
 0.68550      0.67887      0.67159      0.66439
  3861546.29 |       0.75122      0.74402      0.73525      0.72741      0.72005
 0.71237      0.70552      0.69763      0.69054
  3861516.84 |       0.78258      0.77427      0.76561      0.75663      0.74817
 0.73941      0.73114      0.72334      0.71524
  3861487.39 |       0.81479      0.80567      0.79663      0.78682      0.77713
 0.76757      0.75852      0.74957      0.74072
  3861457.94 |       0.84802      0.83750      0.82710      0.81682      0.80666
 0.79618      0.78626      0.77686      0.76716
  3861428.49 |       0.88296      0.87037      0.85939      0.84806      0.83687
 0.82583      0.81491      0.80414      0.79309
  3861399.04 |       0.91776      0.90391      0.89177      0.87881      0.86699
 0.85485      0.84244      0.83022      0.81861
  3861369.59 |       0.95137      0.93672      0.92333      0.90914      0.89567
 0.88288      0.86937      0.85653      0.84391
  3861340.14 |       0.98435      0.96886      0.95365      0.93870      0.92402
 0.90960      0.89545      0.88249      0.86792
  3861310.69 |       1.01690      0.99945      0.98291      0.96670      0.95082
 0.93577      0.92052      0.90606      0.89095
  3861281.24 |       1.04881      1.02993      1.01149      0.99458      0.97750
 0.96080      0.94449      0.92854      0.91343
  3861251.79 |       1.07935      1.05909      1.03935      1.02123      1.00245
 0.98469      0.96735      0.95095      0.93445
  3861222.34 |       1.10849      1.08692      1.06594      1.04611      1.02680
 1.00746      0.98917      0.97188      0.95502
  3861192.89 |       1.13566      1.11348      1.09254      1.07158      1.05009
 1.02978      1.01004      0.99244      0.97528
  3861163.44 |       1.16221      1.13952      1.11869      1.09608      1.07301
 1.05121      1.03225      1.01275      0.99483
  3861133.99 |       1.18633      1.16517      1.14271      1.11912      1.09510
 1.07242      1.05375      1.03131      1.01219
  3861104.54 |       1.21076      1.18735      1.16338      1.13954      1.11586
 1.09236      1.06904      1.04813      1.02838
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 111
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
```

```
                 L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                 L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                 L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                  *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     491888.31    491919.10    491949.89    491980.68    492011.47
492042.26    492073.05    492103.84    492134.63
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3861693.54 |       0.57005      0.56209      0.55747      0.55261      0.54779
 0.54303      0.53722      0.53229      0.52769
  3861664.09 |       0.58969      0.58373      0.57845      0.57410      0.56920
 0.56406      0.55561      0.55035      0.54570
  3861634.64 |       0.61053      0.60512      0.60007      0.59474      0.58976
 0.58452      0.57819      0.57022      0.56406
  3861605.19 |       0.63428      0.62809      0.62227      0.61620      0.61019
 0.60484      0.59835      0.59222      0.58501
  3861575.74 |       0.65831      0.65127      0.64464      0.63871      0.63188
 0.62667      0.62146      0.61273      0.60705
  3861546.29 |       0.68317      0.67587      0.66865      0.66150      0.65571
 0.64836      0.64015      0.63297      0.62647
  3861516.84 |       0.70831      0.70035      0.69213      0.68399      0.67796
 0.67030      0.66078      0.65364      0.64593
  3861487.39 |       0.73272      0.72441      0.71618      0.70732      0.69926
 0.69229      0.68203      0.67358      0.66555
  3861457.94 |       0.75756      0.74847      0.73909      0.73056      0.72139
 0.71408      0.70270      0.69388      0.68517
  3861428.49 |       0.78219      0.77225      0.76243      0.75272      0.74277
 0.73475      0.72362      0.71372      0.70398
  3861399.04 |       0.80718      0.79633      0.78563      0.77469      0.76392
 0.75480      0.74324      0.73261      0.72251
  3861369.59 |       0.83194      0.81888      0.80813      0.79593      0.78434
 0.77410      0.76139      0.75042      0.74035
  3861340.14 |       0.85587      0.84099      0.82897      0.81634      0.80394
 0.79297      0.78026      0.76858      0.75712
  3861310.69 |       0.87754      0.86261      0.84888      0.83587      0.82311
 0.81141      0.79799      0.78601      0.77354
  3861281.24 |       0.89819      0.88330      0.86875      0.85453      0.84189
 0.82787      0.81419      0.80160      0.78891
  3861251.79 |       0.91787      0.90264      0.88777      0.87325      0.85949
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	492165.42	492196.21	492227.00
3861693.54	0.52314	0.51837	0.51416
3861664.09	0.54082	0.53598	0.53145
3861634.64	0.55769	0.55417	0.54873
3861605.19	0.57730	0.57226	0.56641
3861575.74	0.59822	0.59095	0.58491
3861546.29	0.61913	0.61218	0.60471
3861516.84	0.63923	0.63138	0.62421
3861487.39	0.65793	0.65008	0.64232
3861457.94	0.67658	0.66809	0.66003

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488802.97	3861310.09	1.07323	488863.58	3861309.29	1.14317
488847.63	3861279.78	1.19234	488850.82	3861262.24	1.24872
488810.14	3861261.44	1.21717	488810.94	3861289.36	1.12929
488819.72	3861306.90	1.09050	488816.53	3861235.92	1.31331
488841.25	3861126.66	1.88198	488879.53		

3861121.88 2.00612
488913.82 3861121.08 2.11471 488925.79
3861092.37 2.38209
488920.03 3861067.49 2.54841 488996.74
3861113.92 2.43397
488974.03 3861097.77 2.57501 488931.63
3860976.64 2.65816
488935.67 3861034.68 2.77079 488959.90
3861061.43 2.88658
489165.81 3861208.80 2.49140 489317.74
3861109.28 4.89158
489385.87 3861014.75 10.34409 489372.24
3861112.69 4.94872
489420.79 3861106.73 5.13130 489436.12
3861037.74 8.62569
489488.07 3861036.89 9.06532 489473.59
3861110.99 5.01601
489431.01 3861167.20 3.66201 489662.66
3860915.95 38.97006
489644.78 3861076.07 6.96913 489659.26
3861099.06 5.83300
489735.91 3861020.71 11.42567 489700.14
3861029.23 10.72686
489708.65 3861062.44 7.94648 489779.34
3861099.06 5.96797
489835.95 3859138.59 0.09134 489885.95
3859138.59 0.09265
489935.95 3859138.59 0.09309 489985.95
3859138.59 0.09062
490035.95 3859138.59 0.08746 490085.95
3859138.59 0.08553
490135.95 3859138.59 0.08560 490185.95
3859138.59 0.08527
490235.95 3859138.59 0.08434 490285.95
3859138.59 0.08115
490335.95 3859138.59 0.07619 490385.95
3859138.59 0.06949
490435.95 3859138.59 0.06672 490485.95
3859138.59 0.06322
490535.95 3859138.59 0.05991 490585.95
3859138.59 0.05946
490635.95 3859138.59 0.05817 490685.95
3859138.59 0.05707
490735.95 3859138.59 0.05680 490785.95
3859138.59 0.05606
490835.95 3859138.59 0.05474 490885.95
3859138.59 0.05350
489835.95 3859188.59 0.09692 489885.95
3859188.59 0.09778
489935.95 3859188.59 0.09793 489985.95

3859188.59   0.09487
         490035.95   3859188.59   0.09298   490085.95
3859188.59   0.09292
         490135.95   3859188.59   0.09141   490185.95
3859188.59   0.08989
         490235.95   3859188.59   0.08718   490285.95
3859188.59   0.08417
         490335.95   3859188.59   0.08051   490385.95
3859188.59   0.07547
         490435.95   3859188.59   0.07072   490485.95
3859188.59   0.06598
         490535.95   3859188.59   0.06483   490585.95
3859188.59   0.06522
         490635.95   3859188.59   0.06273   490685.95
3859188.59   0.05892
         490735.95   3859188.59   0.05685   490785.95
3859188.59   0.05597
         490835.95   3859188.59   0.05793   490885.95
3859188.59   0.05655
         489835.95   3859238.59   0.10222   489885.95
3859238.59   0.10356

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                  INCLUDING SOURCE(S):   L0000149   , L0000150
, L0000151   , L0000152   , L0000153   ,
                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158
, L0000159   , L0000160   , L0000161   ,
                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166
, L0000167   , L0000168   , L0000169   ,
                  L0000170   , L0000171   , L0000172   , L0000173   , L0000174
, L0000175   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -

489935.95 3859238.59 0.10264 489985.95 3859238.59 0.09826
490035.95 3859238.59 0.09735 490085.95 3859238.59 0.09816
490135.95 3859238.59 0.09786 490185.95 3859238.59 0.09703
490235.95 3859238.59 0.09324 490285.95 3859238.59 0.08859
490335.95 3859238.59 0.08361 490385.95 3859238.59 0.07992
490435.95 3859238.59 0.07709 490485.95 3859238.59 0.07631
490535.95 3859238.59 0.07408 490585.95 3859238.59 0.07177
490635.95 3859238.59 0.06936 490685.95 3859238.59 0.06943
490735.95 3859238.59 0.06647 490785.95 3859238.59 0.06660
490835.95 3859238.59 0.06583 490885.95 3859238.59 0.06301
489835.95 3859288.59 0.10869 489885.95 3859288.59 0.10932
489935.95 3859288.59 0.10761 489985.95 3859288.59 0.10283
490035.95 3859288.59 0.10305 490085.95 3859288.59 0.10318
490135.95 3859288.59 0.10352 490185.95 3859288.59 0.10250
490235.95 3859288.59 0.09895 490285.95 3859288.59 0.09547
490335.95 3859288.59 0.08994 490385.95 3859288.59 0.08561
490435.95 3859288.59 0.08185 490485.95 3859288.59 0.08424
490535.95 3859288.59 0.08807 490585.95 3859288.59 0.08450
490635.95 3859288.59 0.08478 490685.95 3859288.59 0.08298
490735.95 3859288.59 0.07834 490785.95 3859288.59 0.07695
490835.95 3859288.59 0.07491 490885.95 3859288.59 0.07164
489835.95 3859338.59 0.11612 489885.95 3859338.59 0.11684
489935.95 3859338.59 0.11316 489985.95 3859338.59 0.11121
490035.95 3859338.59 0.11076 490085.95 3859338.59 0.11149
490135.95 3859338.59 0.11084 490185.95 3859338.59 0.10933

```
         490235.95    3859338.59        0.10674                      490285.95
3859338.59        0.10298
         490335.95    3859338.59        0.09829                      490385.95
3859338.59        0.09637
         490435.95    3859338.59        0.09687                      490485.95
3859338.59        0.09761
         490535.95    3859338.59        0.09880                      490585.95
3859338.59        0.09856
         490635.95    3859338.59        0.09844                      490685.95
3859338.59        0.09502
         490735.95    3859338.59        0.09067                      490785.95
3859338.59        0.08742
         490835.95    3859338.59        0.08682                      490885.95
3859338.59        0.08233
         489835.95    3859388.59        0.12262                      489885.95
3859388.59        0.12269
         489935.95    3859388.59        0.12240                      489985.95
3859388.59        0.11982
         490035.95    3859388.59        0.11978                      490085.95
3859388.59        0.12036
         490135.95    3859388.59        0.11948                      490185.95
3859388.59        0.11740
         490235.95    3859388.59        0.11458                      490285.95
3859388.59        0.11249
         490335.95    3859388.59        0.10993                      490385.95
3859388.59        0.11030
         490435.95    3859388.59        0.11277                      490485.95
3859388.59        0.11467
         490535.95    3859388.59        0.11511                      490585.95
3859388.59        0.11490
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 115
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
```

***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490635.95	3859388.59	0.11280	490685.95	3859388.59	0.10570
490735.95	3859388.59	0.09714	490785.95	3859388.59	0.09662
490835.95	3859388.59	0.09882	490885.95	3859388.59	0.09627
489835.95	3859438.59	0.13339	489885.95	3859438.59	0.13228
489935.95	3859438.59	0.13076	489985.95	3859438.59	0.12986
490035.95	3859438.59	0.12963	490085.95	3859438.59	0.12858
490135.95	3859438.59	0.12801	490185.95	3859438.59	0.12633
490235.95	3859438.59	0.12421	490285.95	3859438.59	0.12283
490335.95	3859438.59	0.12300	490385.95	3859438.59	0.12495
490435.95	3859438.59	0.12764	490485.95	3859438.59	0.12917
490535.95	3859438.59	0.13010	490585.95	3859438.59	0.12967
490635.95	3859438.59	0.12704	490685.95	3859438.59	0.12298
490735.95	3859438.59	0.11930	490785.95	3859438.59	0.11282
490835.95	3859438.59	0.11077	490885.95	3859438.59	0.10921
490085.95	3859488.59	0.13866	490135.95	3859488.59	0.13749
490185.95	3859488.59	0.13691	490235.95	3859488.59	0.13600
490285.95	3859488.59	0.13526	490335.95	3859488.59	0.13819
490385.95	3859488.59	0.14063	490435.95	3859488.59	0.14394
490485.95	3859488.59	0.14551	490535.95	3859488.59	0.14607
490585.95	3859488.59	0.14426	490635.95	3859488.59	0.14194
490685.95	3859488.59	0.13864	490735.95		

```
3859488.59        0.13283
         490785.95    3859488.59        0.12764                        490835.95
3859488.59        0.12474
         490885.95    3859488.59        0.12158                        490085.95
3859538.59        0.14907
         490135.95    3859538.59        0.14857                        490185.95
3859538.59        0.14862
         490235.95    3859538.59        0.15037                        490285.95
3859538.59        0.15247
         490335.95    3859538.59        0.15486                        490385.95
3859538.59        0.15838
         490435.95    3859538.59        0.16117                        490485.95
3859538.59        0.16250
         490535.95    3859538.59        0.16245                        490585.95
3859538.59        0.16031
         490635.95    3859538.59        0.15717                        490685.95
3859538.59        0.15290
         490735.95    3859538.59        0.14661                        490785.95
3859538.59        0.14181
         490835.95    3859538.59        0.13839                        490885.95
3859538.59        0.13246
         490135.95    3859588.59        0.16560                        490185.95
3859588.59        0.16173
         490235.95    3859588.59        0.16583                        490285.95
3859588.59        0.16993
         490335.95    3859588.59        0.17327                        490385.95
3859588.59        0.17808
         490435.95    3859588.59        0.18045                        490485.95
3859588.59        0.18085
         490535.95    3859588.59        0.17938                        490585.95
3859588.59        0.17674
         490635.95    3859588.59        0.17149                        490685.95
3859588.59        0.16674
         490735.95    3859588.59        0.16062                        490785.95
3859588.59        0.15531
         490835.95    3859588.59        0.15215                        490885.95
3859588.59        0.14831
         490135.95    3859638.59        0.16936                        490185.95
3859638.59        0.18428
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 116
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                    INCLUDING SOURCE(S):     L0000149    , L0000150
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```
, L0000151    , L0000152    , L0000153    ,
                L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         490235.95    3859638.59        0.18508                       490285.95
3859638.59        0.19296
         490335.95    3859638.59        0.19614                       490385.95
3859638.59        0.19680
         490435.95    3859638.59        0.19955                       490485.95
3859638.59        0.19876
         490535.95    3859638.59        0.19643                       490585.95
3859638.59        0.19288
         490635.95    3859638.59        0.18676                       490685.95
3859638.59        0.18095
         490735.95    3859638.59        0.17526                       490785.95
3859638.59        0.17120
         490835.95    3859638.59        0.16910                       490885.95
3859638.59        0.16801
         490135.95    3859688.59        0.19734                       490185.95
3859688.59        0.20133
         490235.95    3859688.59        0.20677                       490285.95
3859688.59        0.20712
         490335.95    3859688.59        0.21510                       490385.95
3859688.59        0.22196
         490435.95    3859688.59        0.21852                       490485.95
3859688.59        0.21629
         490535.95    3859688.59        0.21222                       490585.95
3859688.59        0.20874
         490635.95    3859688.59        0.20283                       490685.95
3859688.59        0.19692
         490735.95    3859688.59        0.19211                       490785.95
3859688.59        0.18911
         490835.95    3859688.59        0.18862                       490885.95
3859688.59        0.19299
         490085.95    3859738.59        0.20970                       490135.95
3859738.59        0.21596
```

```
         490185.95    3859738.59        0.22381                    490235.95
3859738.59        0.23165
         490285.95    3859738.59        0.23479                    490335.95
3859738.59        0.24188
         490385.95    3859738.59        0.23765                    490435.95
3859738.59        0.23891
         490485.95    3859738.59        0.23314                    490535.95
3859738.59        0.23135
         490585.95    3859738.59        0.22586                    490635.95
3859738.59        0.22085
         490685.95    3859738.59        0.21703                    490735.95
3859738.59        0.21515
         490785.95    3859738.59        0.21569                    490835.95
3859738.59        0.21750
         490885.95    3859738.59        0.22229                    490085.95
3859788.59        0.22875
         490135.95    3859788.59        0.23730                    490185.95
3859788.59        0.24644
         490235.95    3859788.59        0.25477                    490285.95
3859788.59        0.26264
         490335.95    3859788.59        0.26694                    490385.95
3859788.59        0.26878
         490435.95    3859788.59        0.26444                    490485.95
3859788.59        0.26092
         490535.95    3859788.59        0.25052                    490585.95
3859788.59        0.25010
         490635.95    3859788.59        0.24322                    490685.95
3859788.59        0.24136
         490735.95    3859788.59        0.24520                    490785.95
3859788.59        0.24861
         490835.95    3859788.59        0.25258                    490885.95
3859788.59        0.25451
         490085.95    3859838.59        0.25420                    490135.95
3859838.59        0.26408
         490185.95    3859838.59        0.27333                    490235.95
3859838.59        0.28011
         490285.95    3859838.59        0.28632                    490335.95
3859838.59        0.29149
         490385.95    3859838.59        0.29161                    490435.95
3859838.59        0.28957
         490485.95    3859838.59        0.28663                    490535.95
3859838.59        0.28107
         490585.95    3859838.59        0.27800                    490635.95
3859838.59        0.27640
         490685.95    3859838.59        0.28073                    490735.95
3859838.59        0.28155
         490785.95    3859838.59        0.28400                    490835.95
3859838.59        0.29345
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490885.95	3859838.59	0.30278	490085.95	3859888.59	0.28475
490135.95	3859888.59	0.29504	490185.95	3859888.59	0.30277
490235.95	3859888.59	0.31013	490285.95	3859888.59	0.31581
490335.95	3859888.59	0.31775	490385.95	3859888.59	0.31857
490435.95	3859888.59	0.31900	490485.95	3859888.59	0.31915
490535.95	3859888.59	0.31629	490585.95	3859888.59	0.31254
490635.95	3859888.59	0.31595	490685.95	3859888.59	0.32193
490735.95	3859888.59	0.32985	490785.95	3859888.59	0.34174
490835.95	3859888.59	0.35158	490885.95	3859888.59	0.35787
490135.95	3859938.59	0.33035	490185.95	3859938.59	0.33824
490235.95	3859938.59	0.34348	490285.95	3859938.59	0.34697
490335.95	3859938.59	0.34916	490385.95		

3859938.59 0.34997
490435.95 3859938.59 0.35219 490485.95
3859938.59 0.35569
490535.95 3859938.59 0.35863 490585.95
3859938.59 0.35899
490635.95 3859938.59 0.36705 490685.95
3859938.59 0.36933
490735.95 3859938.59 0.37880 490785.95
3859938.59 0.39495
490835.95 3859938.59 0.40887 490885.95
3859938.59 0.43042
490135.95 3859988.59 0.36868 490185.95
3859988.59 0.37456
490235.95 3859988.59 0.37544 490285.95
3859988.59 0.37936
490335.95 3859988.59 0.38173 490385.95
3859988.59 0.38811
490435.95 3859988.59 0.39293 490485.95
3859988.59 0.40015
490535.95 3859988.59 0.40970 490585.95
3859988.59 0.42023
490635.95 3859988.59 0.42818 490685.95
3859988.59 0.43449
490735.95 3859988.59 0.44941 490785.95
3859988.59 0.46472
490835.95 3859988.59 0.47971 490885.95
3859988.59 0.49625
490135.95 3860038.59 0.41211 490185.95
3860038.59 0.41807
490235.95 3860038.59 0.42028 490285.95
3860038.59 0.42517
490335.95 3860038.59 0.42824 490385.95
3860038.59 0.43648
490435.95 3860038.59 0.44590 490485.95
3860038.59 0.45800
490535.95 3860038.59 0.47224 490585.95
3860038.59 0.48797
490635.95 3860038.59 0.50446 490685.95
3860038.59 0.52038
490735.95 3860038.59 0.52927 490785.95
3860038.59 0.54385
490835.95 3860038.59 0.55773 490885.95
3860038.59 0.57271
490135.95 3860088.59 0.46275 490185.95
3860088.59 0.46257
490235.95 3860088.59 0.46925 490285.95
3860088.59 0.47701
490335.95 3860088.59 0.48835 490385.95
3860088.59 0.50042
490435.95 3860088.59 0.51561 490485.95

3860088.59   0.53313
         490535.95   3860088.59   0.55190   490585.95
3860088.59   0.57101
         490635.95   3860088.59   0.58957   490685.95
3860088.59   0.60690
         490735.95   3860088.59   0.62249   490785.95
3860088.59   0.63600

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
                                   INCLUDING SOURCE(S):   L0000149   , L0000150   , L0000151   , L0000152   , L0000153   ,
                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158   , L0000159   , L0000160   , L0000161   ,
                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166   , L0000167   , L0000168   , L0000169   ,
                  L0000170   , L0000171   , L0000172   , L0000173   , L0000174   , L0000175   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                   ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

490735.95 3860138.59 0.72440 490785.95
3860138.59 0.73736
490835.95 3860138.59 0.74789 490885.95
3860138.59 0.75595
490935.95 3860138.59 0.76166 490985.95
3860138.59 0.76599
491035.95 3860138.59 0.76878 490135.95
3860188.59 0.60213
490185.95 3860188.59 0.61063 490235.95
3860188.59 0.62651
490285.95 3860188.59 0.64766 490335.95
3860188.59 0.67160
490385.95 3860188.59 0.69789 490435.95
3860188.59 0.72478
490485.95 3860188.59 0.75075 490535.95
3860188.59 0.77480
490585.95 3860188.59 0.79646 490635.95
3860188.59 0.81489
490685.95 3860188.59 0.83069 490735.95
3860188.59 0.84304
490785.95 3860188.59 0.85326 490835.95
3860188.59 0.86083
490885.95 3860188.59 0.86487 490935.95
3860188.59 0.86628
490985.95 3860188.59 0.86678 491035.95
3860188.59 0.86488
491085.95 3860188.59 0.86075 491135.95
3860188.59 0.85733
490135.95 3860238.59 0.70472 490185.95
3860238.59 0.72336
490235.95 3860238.59 0.74889 490285.95
3860238.59 0.77911
490335.95 3860238.59 0.81151 490385.95
3860238.59 0.84385
490435.95 3860238.59 0.87429 490485.95
3860238.59 0.90155
490535.95 3860238.59 0.92516 490585.95
3860238.59 0.94492
490635.95 3860238.59 0.96078 490685.95
3860238.59 0.97290
490735.95 3860238.59 0.98133 490785.95
3860238.59 0.98640
490835.95 3860238.59 0.98839 490885.95
3860238.59 0.98803
490935.95 3860238.59 0.98537 490985.95
3860238.59 0.98346
491035.95 3860238.59 0.97672 491085.95
3860238.59 0.96719
491135.95 3860238.59 0.95844 490135.95
3860288.59 0.84513

```
         490185.95    3860288.59        0.87818                      490235.95
3860288.59        0.91591
         490285.95    3860288.59        0.95611                      490335.95
3860288.59        0.99496
         490385.95    3860288.59        1.03036                      490435.95
3860288.59        1.06114
         490485.95    3860288.59        1.08663                      490535.95
3860288.59        1.10651
         490585.95    3860288.59        1.12121                      490635.95
3860288.59        1.13147
         490685.95    3860288.59        1.13769                      490735.95
3860288.59        1.13982
         490785.95    3860288.59        1.13888                      490835.95
3860288.59        1.13437
         490885.95    3860288.59        1.12826                      490935.95
3860288.59        1.11897
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                       ***       01:16:45

                                  PAGE 119
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                  INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         490985.95    3860288.59        1.11106                      491035.95
3860288.59        1.09931
         491085.95    3860288.59        1.08550                      490135.95
3860338.59        1.04579
         490185.95    3860338.59        1.09448                      490235.95
```

3860338.59 1.14349
490285.95 3860338.59 1.19011 490335.95
3860338.59 1.23097
490385.95 3860338.59 1.26484 490435.95
3860338.59 1.29129
490485.95 3860338.59 1.31041 490535.95
3860338.59 1.32315
490585.95 3860338.59 1.32921 490635.95
3860338.59 1.33040
490685.95 3860338.59 1.32752 490735.95
3860338.59 1.32107
490785.95 3860338.59 1.31335 490835.95
3860338.59 1.30056
490885.95 3860338.59 1.28610 490935.95
3860338.59 1.26941
490985.95 3860338.59 1.25101 491035.95
3860338.59 1.23270
491085.95 3860338.59 1.21303 490135.95
3860388.59 1.33147
490185.95 3860388.59 1.39274 490235.95
3860388.59 1.44764
490285.95 3860388.59 1.49359 490335.95
3860388.59 1.52930
490385.95 3860388.59 1.55460 490435.95
3860388.59 1.57038
490485.95 3860388.59 1.57803 490535.95
3860388.59 1.57812
490585.95 3860388.59 1.57229 490635.95
3860388.59 1.56088
490685.95 3860388.59 1.54674 490735.95
3860388.59 1.52827
490785.95 3860388.59 1.50803 490835.95
3860388.59 1.48675
490135.95 3860438.59 1.73068 490185.95
3860438.59 1.79480
490235.95 3860438.59 1.84431 490285.95
3860438.59 1.87877
490335.95 3860438.59 1.89882 490385.95
3860438.59 1.90691
490435.95 3860438.59 1.90456 490485.95
3860438.59 1.89363
490535.95 3860438.59 1.87655 490585.95
3860438.59 1.85323
490635.95 3860438.59 1.82550 490685.95
3860438.59 1.79529
490735.95 3860438.59 1.76333 490785.95
3860438.59 1.72762
490835.95 3860438.59 1.69314 490135.95
3860488.59 2.27488
490185.95 3860488.59 2.32342 490235.95

3860488.59   2.34973
         490285.95   3860488.59   2.35810   490335.95
3860488.59   2.35001
         490385.95   3860488.59   2.33071   490435.95
3860488.59   2.30320
         490485.95   3860488.59   2.26596   490535.95
3860488.59   2.22213
         490585.95   3860488.59   2.17391   490635.95
3860488.59   2.12437
         490685.95   3860488.59   2.06996   490735.95
3860488.59   2.01693
         490785.95   3860488.59   1.96253   490135.95
3860538.59   2.99528
         490185.95   3860538.59   3.00279   490235.95
3860538.59   2.98189
         490285.95   3860538.59   2.94409   490335.95
3860538.59   2.89378
         490385.95   3860538.59   2.83451   490435.95
3860538.59   2.76651
         490485.95   3860538.59   2.69341   490535.95
3860538.59   2.62016
         490585.95   3860538.59   2.53118   490635.95
3860538.59   2.44691
         490685.95   3860538.59   2.36554   490735.95
3860538.59   2.28353

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
                                  INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                 L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                 L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                 L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490785.95	3860538.59	2.20502	490135.95	3860588.59	3.92599
490185.95	3860588.59	3.83198	490235.95	3860588.59	3.74893
490285.95	3860588.59	3.64491	490335.95	3860588.59	3.52697
490385.95	3860588.59	3.40289	490435.95	3860588.59	3.28728
490485.95	3860588.59	3.16462	490535.95	3860588.59	3.03816
490585.95	3860588.59	2.89807	490635.95	3860588.59	2.77860
490685.95	3860588.59	2.66199	490735.95	3860588.59	2.55091
490785.95	3860588.59	2.44312	490135.95	3860638.59	5.08188
490185.95	3860638.59	4.87614	490235.95	3860638.59	4.64876
490285.95	3860638.59	4.42733	490335.95	3860638.59	4.21904
490385.95	3860638.59	4.01192	490435.95	3860638.59	3.80885
490485.95	3860638.59	3.61875	490535.95	3860638.59	3.44458
490585.95	3860638.59	3.26709	490635.95	3860638.59	3.10582
490685.95	3860638.59	2.95176	490735.95	3860638.59	2.80309
490785.95	3860638.59	2.66995	490135.95	3860688.59	6.40550
490185.95	3860688.59	6.01120	490235.95	3860688.59	5.62565
490285.95	3860688.59	5.22709	490335.95	3860688.59	4.91080
490385.95	3860688.59	4.61004	490435.95	3860688.59	4.32277
490485.95	3860688.59	4.05171	490535.95	3860688.59	3.81399
490585.95	3860688.59	3.59529	490635.95	3860688.59	3.39433
490685.95	3860688.59	3.21118	490735.95	3860688.59	3.03495
490785.95	3860688.59	2.87868	490135.95	3860738.59	7.69231
490185.95	3860738.59	7.02578	490235.95	3860738.59	6.45629

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         490285.95    3860738.59        5.95793                      490335.95
3860738.59        5.51109
         490385.95    3860738.59        5.11429                      490435.95
3860738.59        4.77739
         490485.95    3860738.59        4.43790                      490535.95
3860738.59        4.11410
         490585.95    3860738.59        3.84351                      490635.95
3860738.59        3.60500
         490685.95    3860738.59        3.39686                      490735.95
3860738.59        3.20527
         490785.95    3860738.59        3.03231                      490135.95
3860788.59        8.61927
         490185.95    3860788.59        7.78456                      490235.95
3860788.59        7.06069
         490285.95    3860788.59        6.43831                      490335.95
3860788.59        5.88925
         490385.95    3860788.59        5.43609                      490435.95
3860788.59        5.01675
         490485.95    3860788.59        4.65923                      490535.95
3860788.59        4.31405
         490585.95    3860788.59        3.98911                      490635.95
3860788.59        3.71976
         490685.95    3860788.59        3.48649                      490735.95
3860788.59        3.28242
         490785.95    3860788.59        3.08606                      489985.95
3860838.59       13.09325
         490035.95    3860838.59       11.46225                      490085.95
3860838.59       10.14908
         490135.95    3860838.59        9.05062                      490185.95
3860838.59        8.07989
         490235.95    3860838.59        7.26971                      490285.95
3860838.59        6.59893
         490335.95    3860838.59        6.00370                      490385.95
3860838.59        5.49680
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 121
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
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L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490435.95	3860838.59	5.07111	490485.95	3860838.59	4.68859
490535.95	3860838.59	4.34080	490585.95	3860838.59	4.02130
490635.95	3860838.59	3.73745	490685.95	3860838.59	3.49489
490735.95	3860838.59	3.28404	490785.95	3860838.59	3.08838
490835.95	3860838.59	2.90681	489835.95	3860888.59	20.89929
489885.95	3860888.59	17.44124	489935.95	3860888.59	14.82513
489985.95	3860888.59	12.81644	490035.95	3860888.59	11.20648
490085.95	3860888.59	9.91580	490135.95	3860888.59	8.81584
490185.95	3860888.59	7.87572	490235.95	3860888.59	7.09712
490285.95	3860888.59	6.43180	490335.95	3860888.59	5.85346
490385.95	3860888.59	5.37365	490435.95	3860888.59	4.95798
490485.95	3860888.59	4.58125	490535.95	3860888.59	4.24342
490585.95	3860888.59	3.93781	490635.95	3860888.59	3.66249
490685.95	3860888.59	3.42262	490735.95	3860888.59	3.20971
490785.95	3860888.59	3.01319	490835.95	3860888.59	2.84236
490885.95	3860888.59	2.69252	490935.95	3860888.59	2.54756
489835.95	3860938.59	17.32437	489885.95	3860938.59	14.90336
489935.95	3860938.59	12.99773	489985.95	3860938.59	11.43306
490035.95	3860938.59	10.12799	490085.95		

```
3860938.59        9.03216
         490135.95    3860938.59        8.06685                      490185.95
3860938.59        7.29477
         490235.95    3860938.59        6.62498                      490285.95
3860938.59        6.04990
         490335.95    3860938.59        5.52797                      490385.95
3860938.59        5.09869
         490435.95    3860938.59        4.71788                      490485.95
3860938.59        4.36894
         490535.95    3860938.59        4.06077                      490585.95
3860938.59        3.77643
         490635.95    3860938.59        3.52194                      490685.95
3860938.59        3.29658
         490735.95    3860938.59        3.09366                      490785.95
3860938.59        2.91108
         490835.95    3860938.59        2.75405                      490885.95
3860938.59        2.61216
         490935.95    3860938.59        2.47321                      489835.95
3860988.59       12.94712
         489885.95    3860988.59       11.71362                      489935.95
3860988.59       10.57667
         489985.95    3860988.59        9.56461                      490035.95
3860988.59        8.65807
         490085.95    3860988.59        7.87567                      490135.95
3860988.59        7.16629
         490185.95    3860988.59        6.57026                      490235.95
3860988.59        6.00021
         490285.95    3860988.59        5.51331                      490335.95
3860988.59        5.09143
         490385.95    3860988.59        4.71862                      490435.95
3860988.59        4.40191
         490485.95    3860988.59        4.09596                      490535.95
3860988.59        3.81426
         490585.95    3860988.59        3.56362                      490635.95
3860988.59        3.34175
         490685.95    3860988.59        3.13414                      490735.95
3860988.59        2.94501
         490785.95    3860988.59        2.77909                      490835.95
3860988.59        2.63215
         490885.95    3860988.59        2.50110                      490935.95
3860988.59        2.37170
         489835.95    3861038.59        9.19895                      489885.95
3861038.59        8.71654
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 122
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***

INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
489935.95	3861038.59	8.13502	489985.95	3861038.59	7.57333
490035.95	3861038.59	7.04726	490085.95	3861038.59	6.55236
490135.95	3861038.59	6.09199	490185.95	3861038.59	5.66346
490235.95	3861038.59	5.27741	490285.95	3861038.59	4.90097
490335.95	3861038.59	4.56558	490385.95	3861038.59	4.28544
490435.95	3861038.59	4.02721	490485.95	3861038.59	3.77572
490535.95	3861038.59	3.53920	490585.95	3861038.59	3.32161
490635.95	3861038.59	3.12171	490685.95	3861038.59	2.94034
490735.95	3861038.59	2.77604	490785.95	3861038.59	2.62878
490835.95	3861038.59	2.49524	490885.95	3861038.59	2.37130
490935.95	3861038.59	2.25792	489835.95	3861088.59	6.47617
489885.95	3861088.59	6.34716	489935.95	3861088.59	6.13912
489985.95	3861088.59	5.87105	490035.95	3861088.59	5.58584
490085.95	3861088.59	5.31040	490135.95	3861088.59	5.04796

```
         490185.95    3861088.59        4.80020                      490235.95
3861088.59        4.51764
         490285.95    3861088.59        4.25703                      490335.95
3861088.59        4.00925
         490385.95    3861088.59        3.80177                      490435.95
3861088.59        3.59601
         490485.95    3861088.59        3.40271                      490535.95
3861088.59        3.22730
         490585.95    3861088.59        3.04881                      490635.95
3861088.59        2.87765
         490685.95    3861088.59        2.72504                      490735.95
3861088.59        2.58754
         490785.95    3861088.59        2.45982                      490835.95
3861088.59        2.34179
         490885.95    3861088.59        2.23257                      490935.95
3861088.59        2.13270
         489020.79    3862564.85        0.22889                      489043.15
3862350.21        0.28243
         489072.96    3862287.60        0.30336                      488980.55
3862078.92        0.38138
         489037.19    3862822.72        0.18189                      489120.66
3863016.49        0.15282
         489037.19    3863350.37        0.12162

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 123
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                  L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                                X-COORD (METERS)
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```
    (METERS) |     489237.26    489256.56    489275.86    489295.16    489314.46
489333.76    489353.06    489372.36    489391.66
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3859957.07 |       0.49577      0.49473      0.49626      0.49617      0.49245
 0.48803      0.48103      0.47111      0.45653
  3859937.65 |       0.47702      0.47586      0.47683      0.47662      0.47299
 0.46968      0.46495      0.45615      0.44473
  3859918.23 |       0.45825      0.45740      0.45821      0.45705      0.45426
 0.45143      0.44681      0.43785      0.42691
  3859898.81 |       0.44125      0.44187      0.44146      0.44065      0.43910
 0.43639      0.43063      0.42398      0.41418
  3859879.39 |       0.42655      0.42641      0.42760      0.42718      0.42539
 0.42278      0.41691      0.41110      0.40234
  3859859.97 |       0.41144      0.41125      0.41198      0.41144      0.40959
 0.40697      0.40159      0.39631      0.38799
  3859840.55 |       0.39698      0.39668      0.39698      0.39632      0.39470
 0.39207      0.38682      0.38202      0.37569
  3859821.13 |       0.38314      0.38268      0.38230      0.38047      0.37899
 0.37628      0.37259      0.36793      0.36245
  3859801.71 |       0.36897      0.36920      0.36919      0.36701      0.36576
 0.36472      0.35944      0.35521      0.35022
  3859782.29 |       0.35661      0.35667      0.35677      0.35400      0.35297
 0.35216      0.34702      0.34291      0.33809
  3859762.87 |       0.34509      0.34503      0.34387      0.34222      0.34060
 0.33820      0.33499      0.32882      0.32415
  3859743.45 |       0.33416      0.33397      0.33249      0.33104      0.32913
 0.32674      0.32335      0.31789      0.31310
  3859724.03 |       0.32357      0.32346      0.32192      0.32042      0.31849
 0.31588      0.31157      0.30780      0.30318
  3859704.61 |       0.31350      0.31228      0.31186      0.31032      0.30862
 0.30627      0.30303      0.29915      0.29376
  3859685.19 |       0.30390      0.30279      0.30250      0.30116      0.29944
 0.29689      0.29351      0.28858      0.28430
  3859665.77 |       0.29493      0.29395      0.29432      0.29339      0.29151
 0.28796      0.28445      0.27920      0.27481
  3859646.35 |       0.28619      0.28511      0.28425      0.28324      0.28110
 0.27863      0.27453      0.27074      0.26652
  3859626.93 |       0.27720      0.27667      0.27534      0.27431      0.27137
 0.26889      0.26614      0.26269      0.25838
  3859607.51 |       0.26923      0.26861      0.26743      0.26523      0.26325
 0.26081      0.25813      0.25479      0.24981
  3859588.09 |       0.26124      0.25990      0.25880      0.25726      0.25529
 0.25290      0.25007      0.24604      0.24221
  3859568.67 |       0.25318      0.25213      0.25119      0.24963      0.24675
 0.24437      0.24181      0.23844      0.23496
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***

INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	489410.96	489430.26	489449.56	489468.86	489488.16	489507.46	489526.76	489546.06	489565.36
3859957.07	0.43880	0.42252	0.40178	0.38587	0.36594	0.35391	0.34978	0.34687	0.34275
3859937.65	0.43046	0.41618	0.39878	0.38746	0.37830	0.37185	0.37040	0.36814	0.36295
3859918.23	0.41116	0.39381	0.38215	0.37514	0.36707	0.36030	0.36042	0.35585	0.35024
3859898.81	0.40087	0.38677	0.37094	0.36055	0.35350	0.35225	0.35080	0.34498	0.34134
3859879.39	0.39271	0.38221	0.36289	0.34687	0.34213	0.34579	0.34370	0.33536	0.33269
3859859.97	0.38057	0.37152	0.36075	0.34745	0.34185	0.33978	0.33719	0.33016	0.32979
3859840.55	0.36735	0.36042	0.35154	0.34320	0.33567	0.33014	0.32712	0.32353	0.32262
3859821.13	0.35484	0.34747	0.33893	0.33305	0.32628	0.31817	0.31517	0.31218	0.31128
3859801.71	0.34444	0.33664	0.32979	0.32213	0.31560	0.30955	0.30484	0.30281	0.30238
3859782.29	0.33281	0.32711	0.31979	0.31339	0.30635	0.30090	0.29634	0.29260	0.29215
3859762.87	0.31934	0.31408	0.31076	0.30412	0.29636	0.28786	0.28659	0.28462	0.28245

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  3859743.45 |       0.30818      0.30341      0.30050      0.29408      0.28690
 0.27832      0.27895      0.27539      0.27448
  3859724.03 |       0.29818      0.29331      0.29052      0.28428      0.27762
 0.26965      0.27013      0.26664      0.26536
  3859704.61 |       0.28922      0.28428      0.28131      0.27556      0.26882
 0.26143      0.26178      0.25949      0.25705
  3859685.19 |       0.27993      0.27544      0.27131      0.26675      0.26048
 0.25470      0.25494      0.25156      0.24915
  3859665.77 |       0.27060      0.26627      0.26255      0.25838      0.25256
 0.24723      0.24735      0.24373      0.24272
  3859646.35 |       0.26109      0.25691      0.25447      0.25043      0.24476
 0.23983      0.24014      0.23658      0.23525
  3859626.93 |       0.25315      0.24887      0.24679      0.24287      0.23788
 0.23460      0.23302      0.23105      0.22869
  3859607.51 |       0.24581      0.24194      0.23947      0.23614      0.23273
 0.22885      0.22674      0.22477      0.22365
  3859588.09 |       0.23836      0.23463      0.23094      0.22746      0.22432
 0.22165      0.21931      0.21662      0.21691
  3859568.67 |       0.23148      0.22664      0.22282      0.21917      0.21606
 0.21365      0.21013      0.20858      0.20907
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 125
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                   L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                   L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                   L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     489584.66    489603.96    489623.26
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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```
  3859957.07 |       0.33516      0.32080      0.30459
  3859937.65 |       0.35157      0.33950      0.31868
  3859918.23 |       0.34490      0.33808      0.32064
  3859898.81 |       0.34064      0.33535      0.32063
  3859879.39 |       0.33511      0.32878      0.32486
  3859859.97 |       0.32987      0.32288      0.32065
  3859840.55 |       0.32263      0.31540      0.31590
  3859821.13 |       0.31085      0.31111      0.30969
  3859801.71 |       0.30239      0.30092      0.30292
  3859782.29 |       0.29257      0.29203      0.29472
  3859762.87 |       0.28246      0.28198      0.28713
  3859743.45 |       0.27288      0.27283      0.27812
  3859724.03 |       0.26531      0.26558      0.27023
  3859704.61 |       0.25697      0.25723      0.26145
  3859685.19 |       0.24903      0.24897      0.25187
  3859665.77 |       0.24118      0.24112      0.24368
  3859646.35 |       0.23372      0.23364      0.23588
  3859626.93 |       0.22815      0.22679      0.22845
  3859607.51 |       0.22305      0.22120      0.22044
  3859588.09 |       0.21534      0.21469      0.21368
  3859568.67 |       0.20890      0.20847      0.20610
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 126
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                  L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                    *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     489260.34    489284.99    489309.64    489334.29    489358.94
489383.59    489408.24    489432.89    489457.54
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- -

 3859173.42 | 0.14576   0.14275   0.14223   0.14112   0.13841
0.13640   0.13412   0.13113   0.12831
 3859151.85 | 0.14221   0.14070   0.13949   0.13770   0.13507
0.13313   0.13094   0.12804   0.12487
 3859130.28 | 0.13914   0.13816   0.13630   0.13400   0.13185
0.12938   0.12744   0.12489   0.12200
 3859108.71 | 0.13649   0.13504   0.13270   0.13065   0.12816
0.12636   0.12449   0.12143   0.11863
 3859087.14 | 0.13345   0.13138   0.12958   0.12722   0.12518
0.12362   0.12148   0.11868   0.11579
 3859065.57 | 0.13006   0.12833   0.12657   0.12411   0.12231
0.12064   0.11800   0.11562   0.11340
 3859044.00 | 0.12692   0.12491   0.12317   0.12127   0.11898
0.11736   0.11479   0.11307   0.11110
 3859022.43 | 0.12376   0.12207   0.12038   0.11818   0.11631
0.11476   0.11260   0.11077   0.10831
 3859000.86 | 0.12068   0.11917   0.11768   0.11554   0.11337
0.11170   0.10999   0.10839   0.10600
 3858979.29 | 0.11757   0.11607   0.11475   0.11299   0.11089
0.10874   0.10725   0.10571   0.10393
 3858957.72 | 0.11513   0.11367   0.11208   0.11068   0.10864
0.10657   0.10497   0.10348   0.10192
 3858936.15 | 0.11263   0.11119   0.10935   0.10782   0.10582
0.10380   0.10189   0.09992   0.09842
 3858914.58 | 0.10995   0.10837   0.10684   0.10505   0.10358
0.10127   0.09941   0.09785   0.09624
 3858893.01 | 0.10760   0.10565   0.10370   0.10237   0.10156
0.09932   0.09719   0.09585   0.09430
 3858871.44 | 0.10547   0.10356   0.10124   0.09994   0.09821
0.09679   0.09521   0.09392   0.09226
 3858849.87 | 0.10340   0.10140   0.09928   0.09757   0.09618
0.09465   0.09329   0.09189   0.09029
 3858828.30 | 0.10089   0.09905   0.09696   0.09572   0.09422
0.09275   0.09128   0.08993   0.08853
 3858806.73 | 0.09882   0.09677   0.09497   0.09377   0.09232
0.09075   0.08903   0.08804   0.08668
 3858785.16 | 0.09623   0.09457   0.09319   0.09188   0.09062
0.08911   0.08745   0.08634   0.08489
 3858763.59 | 0.09393   0.09251   0.09117   0.08990   0.08869
0.08737   0.08605   0.08470   0.08329
 3858742.02 | 0.09163   0.09024   0.08893   0.08770   0.08654
0.08541   0.08414   0.08311   0.08175

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	489482.19	489506.84	489531.49	489556.14	489580.79	489605.44	489630.09	489654.74	489679.39	
3859173.42	0.12496	0.12178	0.11864	0.11745	0.11482	0.11357	0.11291	0.11285	0.11413	
3859151.85	0.12227	0.11898	0.11591	0.11386	0.11212	0.11176	0.11034	0.11021	0.11064	
3859130.28	0.11905	0.11585	0.11349	0.11082	0.10974	0.10865	0.10766	0.10746	0.10708	
3859108.71	0.11637	0.11326	0.11053	0.10854	0.10680	0.10478	0.10461	0.10291	0.10314	
3859087.14	0.11378	0.11173	0.10829	0.10634	0.10334	0.10171	0.10101	0.10040	0.10057	
3859065.57	0.11146	0.10889	0.10613	0.10300	0.10105	0.09920	0.09844	0.09778	0.09787	
3859044.00	0.10866	0.10598	0.10404	0.10077	0.09884	0.09700	0.09620	0.09548	0.09529	
3859022.43	0.10577	0.10334	0.10087	0.09902	0.09672	0.09488	0.09383	0.09307	0.09282	
3859000.86	0.10371	0.10060	0.09876	0.09694	0.09467	0.09284	0.09176	0.09095	0.09044	
3858979.29	0.10117	0.09851	0.09653	0.09475	0.09289	0.09107	0.08978	0.08873	0.08816	
3858957.72	0.09870	0.09666	0.09456	0.09245	0.09116	0.08935	0.08767	0.08678	0.08617	
3858936.15	0.09651	0.09470	0.09265	0.09060	0.08896	0.08734	0.08584	0.08491	0.08406	
3858914.58	0.09456	0.09296	0.09097	0.08880	0.08685					

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489704.04	489728.69	489753.34
3859173.42	0.11509	0.11632	0.11692
3859151.85	0.11131	0.11250	0.11310
3859130.28	0.10713	0.10828	0.10885

```
  3859108.71 |       0.10386      0.10448      0.10557
  3859087.14 |       0.10099      0.10179      0.10306
  3859065.57 |       0.09846      0.09921      0.10043
  3859044.00 |       0.09581      0.09650      0.09769
  3859022.43 |       0.09326      0.09391      0.09505
  3859000.86 |       0.09062      0.09121      0.09250
  3858979.29 |       0.08828      0.08881      0.09005
  3858957.72 |       0.08641      0.08688      0.08750
  3858936.15 |       0.08424      0.08465      0.08523
  3858914.58 |       0.08215      0.08251      0.08304
  3858893.01 |       0.08032      0.08044      0.08110
  3858871.44 |       0.07856      0.07846      0.07906
  3858849.87 |       0.07670      0.07672      0.07726
  3858828.30 |       0.07508      0.07504      0.07537
  3858806.73 |       0.07351      0.07342      0.07386
  3858785.16 |       0.07169      0.07171      0.07224
  3858763.59 |       0.07010      0.07006      0.07053
  3858742.02 |       0.06900      0.06847      0.06889
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177 , L0000178    , L0000179    , L0000180    ,
                                      L0000181    , L0000182    , L0000183    , L0000184    , L0000185 , L0000186    , L0000187    , L0000188    ,
                                      L0000189    , L0000190    , L0000191    , L0000192    , L0000193 , L0000194    , L0000195    , L0000196    ,
                                      L0000197    , L0000198    , L0000199    , L0000200    , L0000201 , L0000202    , L0000203    ,

                                    *** NETWORK ID: UCART3   ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                     **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     488584.66    488614.48    488644.30    488674.12    488703.94
488733.76    488763.58    488793.40    488823.22
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

  3858904.98 |       0.10980      0.10775      0.10617      0.10478      0.10411
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: LOADING2 ***
                                INCLUDING SOURCE(S):   L0000176   , L0000177
, L0000178   , L0000179   , L0000180   ,
                 L0000181   , L0000182   , L0000183   , L0000184   , L0000185
, L0000186   , L0000187   , L0000188   ,
                 L0000189   , L0000190   , L0000191   , L0000192   , L0000193
, L0000194   , L0000195   , L0000196   ,
                 L0000197   , L0000198   , L0000199   , L0000200   , L0000201
, L0000202   , L0000203   ,

                                 *** NETWORK ID: UCART3   ; NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 488853.04   488882.86   488912.68   488942.50   488972.32
489002.14   489031.96   489061.78   489091.60
 -
- -

  3858904.98 | 0.10495   0.10669   0.10764   0.10974   0.11053
 0.11199   0.11356   0.11487   0.11596
  3858880.05 | 0.10331   0.10415   0.10539   0.10717   0.10847
 0.10948   0.11130   0.11252   0.11321
  3858855.12 | 0.10133   0.10209   0.10292   0.10468   0.10596
 0.10725   0.10922   0.11035   0.11084
  3858830.19 | 0.09942   0.10009   0.10053   0.10218   0.10291
 0.10531   0.10680   0.10814   0.10804
  3858805.26 | 0.09721   0.09826   0.09882   0.09986   0.09982
 0.10292   0.10464   0.10551   0.10603
  3858780.33 | 0.09482   0.09547   0.09627   0.09750   0.09860
 0.10039   0.10216   0.10306   0.10376
  3858755.40 | 0.09277   0.09331   0.09421   0.09571   0.09701
 0.09826   0.09985   0.10095   0.10120
  3858730.47 | 0.09148   0.09177   0.09296   0.09408   0.09537
 0.09658   0.09810   0.09864   0.09881
  3858705.54 | 0.08989   0.09055   0.09138   0.09240   0.09367
 0.09532   0.09639   0.09695   0.09730
  3858680.61 | 0.08784   0.08813   0.08940   0.09051   0.09202
 0.09326   0.09463   0.09556   0.09566
  3858655.68 | 0.08635   0.08666   0.08783   0.08894   0.09062
 0.09171   0.09292   0.09333   0.09370
  3858630.75 | 0.08459   0.08514   0.08641   0.08742   0.08907
 0.09012   0.09100   0.09135   0.09155
  3858605.82 | 0.08303   0.08367   0.08503   0.08603   0.08731
 0.08856   0.08938   0.08975   0.08947
  3858580.89 | 0.08127   0.08233   0.08369   0.08469   0.08575
 0.08680   0.08781   0.08810   0.08776

```
  3858555.96 |       0.07997      0.08071      0.08197      0.08306      0.08433
 0.08525      0.08595      0.08618      0.08588
  3858531.03 |       0.07871      0.07937      0.08030      0.08161      0.08271
 0.08391      0.08446      0.08463      0.08404
  3858506.10 |       0.07710      0.07776      0.07892      0.07988      0.08095
 0.08219      0.08277      0.08258      0.08225
  3858481.17 |       0.07536      0.07632      0.07734      0.07829      0.07966
 0.08052      0.08105      0.08088      0.08063
  3858456.24 |       0.07375      0.07470      0.07603      0.07706      0.07839
 0.07921      0.07914      0.07944      0.07914
  3858431.31 |       0.07295      0.07370      0.07453      0.07587      0.07685
 0.07739      0.07780      0.07795      0.07759
  3858406.38 |       0.07158      0.07225      0.07308      0.07440      0.07543
 0.07593      0.07649      0.07650      0.07609
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 131
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                  INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                  L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                   *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                X-COORD (METERS)
    (METERS) |     489121.42    489151.24    489181.06
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3858904.98 |       0.11603      0.11572      0.11410
  3858880.05 |       0.11347      0.11259      0.11118
  3858855.12 |       0.11062      0.10968      0.10848
  3858830.19 |       0.10774      0.10734      0.10563
  3858805.26 |       0.10592      0.10450      0.10287
  3858780.33 |       0.10342      0.10232      0.10055
```

```
  3861625.48 |       0.55127      0.54257      0.54287      0.54931      0.55381
 0.55227      0.54791      0.55494      0.55905
  3861600.34 |       0.57780      0.57283      0.56823      0.57626      0.58559
 0.58619      0.57871      0.58279      0.59523
  3861575.20 |       0.61656      0.59928      0.59412      0.60527      0.61511
 0.61083      0.60710      0.61115      0.63015
  3861550.06 |       0.64898      0.62930      0.62648      0.63504      0.63796
 0.63454      0.63526      0.64551      0.66461
  3861524.92 |       0.68163      0.66344      0.66001      0.66550      0.66632
 0.66406      0.66754      0.68157      0.69899
  3861499.78 |       0.71699      0.69884      0.69467      0.70091      0.70285
 0.69708      0.70456      0.72180      0.74414
  3861474.64 |       0.75540      0.73643      0.73230      0.74022      0.74455
 0.73502      0.74616      0.76587      0.79774
  3861449.50 |       0.79515      0.77738      0.77323      0.78007      0.77961
 0.78059      0.79303      0.81423      0.83750
  3861424.36 |       0.84065      0.82323      0.81680      0.82238      0.82616
 0.82709      0.84595      0.87740      0.88727
  3861399.22 |       0.89049      0.87120      0.86327      0.87197      0.87761
 0.88089      0.90584      0.93022      0.94256
  3861374.08 |       0.94396      0.92264      0.91657      0.92653      0.93231
 0.93973      0.97023      0.98819      1.00404
  3861348.94 |       1.00284      0.98062      0.97524      0.98418      0.99061
 1.00427      1.03691      1.05566      1.07245
  3861323.80 |       1.06791      1.04915      1.04294      1.04811      1.05858
 1.07808      1.10573      1.13280      1.14860
  3861298.66 |       1.14175      1.12395      1.11826      1.12098      1.14123
 1.16129      1.19130      1.21963      1.23621
  3861273.52 |       1.22769      1.20585      1.19900      1.20795      1.22486
 1.25548      1.29054      1.31903      1.32972
  3861248.38 |       1.33026      1.30157      1.28766      1.30292      1.32162
 1.35890      1.40405      1.42787      1.42660
  3861223.24 |       1.44906      1.41627      1.38962      1.40713      1.43215
 1.47875      1.53022      1.54535      1.53428
  3861198.10 |       1.58511      1.54985      1.50997      1.52442      1.56137
 1.61599      1.66841      1.67654      1.65953
  3861172.96 |       1.74195      1.70385      1.64319      1.66477      1.71093
 1.77368      1.82451      1.82436      1.80584
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 133
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
```

```
                 L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                 L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                 L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     490056.78    490131.30    490205.82    490280.34    490354.86
490429.38    490503.90    490578.42    490652.94
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3861675.76 |       0.51708      0.52510      0.52556      0.52709      0.52976
 0.52849      0.52407      0.51622      0.51142
  3861650.62 |       0.54119      0.54965      0.55318      0.55802      0.55315
 0.55043      0.54410      0.53989      0.53777
  3861625.48 |       0.57041      0.58035      0.58608      0.59282      0.58308
 0.57894      0.57005      0.56762      0.56566
  3861600.34 |       0.60676      0.61643      0.62272      0.62632      0.62308
 0.61646      0.60527      0.59575      0.59045
  3861575.20 |       0.63789      0.64555      0.65566      0.65577      0.64898
 0.64069      0.63035      0.62370      0.61887
  3861550.06 |       0.67213      0.68600      0.69030      0.69106      0.67843
 0.67288      0.65785      0.65266      0.65153
  3861524.92 |       0.71347      0.72353      0.72466      0.72602      0.71554
 0.70107      0.68902      0.68602      0.68893
  3861499.78 |       0.75608      0.76101      0.76680      0.76633      0.75288
 0.73318      0.72361      0.72394      0.73094
  3861474.64 |       0.79743      0.80434      0.81693      0.81001      0.78626
 0.77279      0.76420      0.76695      0.77648
  3861449.50 |       0.84303      0.86330      0.86456      0.84489      0.82155
 0.81297      0.81189      0.81738      0.82710
  3861424.36 |       0.89423      0.90361      0.90844      0.88555      0.86396
 0.86036      0.86136      0.87229      0.88121
  3861399.22 |       0.94873      0.95382      0.94947      0.92865      0.91296
 0.91324      0.91880      0.93118      0.93816
  3861374.08 |       1.00983      1.01071      1.00116      0.97873      0.96928
 0.97466      0.98468      0.99659      0.99971
  3861348.94 |       1.07610      1.07023      1.06127      1.03874      1.03528
 1.04447      1.05739      1.06559      1.06398
  3861323.80 |       1.14694      1.13532      1.11943      1.11018      1.11443
 1.12584      1.13638      1.13833      1.13068
  3861298.66 |       1.22428      1.21491      1.19301      1.19329      1.20176
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	490727.46	490801.98	490876.50
3861675.76	0.51358	0.50904	0.51312
3861650.62	0.53933	0.53744	0.54356
3861625.48	0.56273	0.56536	0.57180
3861600.34	0.58993	0.59609	0.60217
3861575.20	0.62187	0.62963	0.63577
3861550.06	0.65713	0.66633	0.67158
3861524.92	0.69778	0.70547	0.70979
3861499.78	0.74075	0.74942	0.75019
3861474.64	0.78602	0.79530	0.79258

```
  3861449.50 |       0.83618      0.83808      0.83563
  3861424.36 |       0.88630      0.88606      0.87579
  3861399.22 |       0.94214      0.93397      0.92100
  3861374.08 |       0.99850      0.98467      0.96692
  3861348.94 |       1.05407      1.03782      1.01538
  3861323.80 |       1.11307      1.09128      1.06693
  3861298.66 |       1.18307      1.15544      1.12041
  3861273.52 |       1.24643      1.21659      1.17615
  3861248.38 |       1.31415      1.28246      1.23732
  3861223.24 |       1.38942      1.35268      1.30253
  3861198.10 |       1.46860      1.42431      1.36885
  3861172.96 |       1.55206      1.49831      1.44034
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 135
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                  INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                   L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                   L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                   L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                    *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     491611.20    491641.99    491672.78    491703.57    491734.36
491765.15    491795.94    491826.73    491857.52
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -

  3861693.54 |       0.49892      0.49609      0.49375      0.48883      0.48476
 0.48069      0.47743      0.47444      0.47145
  3861664.09 |       0.51678      0.51331      0.50891      0.50539      0.50158
 0.49777      0.49399      0.48995      0.48568
  3861634.64 |       0.53599      0.53185      0.52741      0.52359      0.51949
 0.51453      0.51164      0.50706      0.50224
  3861605.19 |       0.55542      0.55159      0.54681      0.54239      0.53860
```

```
 0.53363      0.52960      0.52502      0.52049
  3861575.74 |       0.57649      0.57201      0.56689      0.56247      0.55745
 0.55279      0.54848      0.54360      0.53878
  3861546.29 |       0.59834      0.59386      0.58803      0.58295      0.57825
 0.57327      0.56896      0.56376      0.55922
  3861516.84 |       0.62173      0.61653      0.61102      0.60521      0.59982
 0.59415      0.58887      0.58397      0.57880
  3861487.39 |       0.64604      0.64044      0.63489      0.62867      0.62252
 0.61644      0.61078      0.60518      0.59964
  3861457.94 |       0.67169      0.66526      0.65890      0.65261      0.64638
 0.63986      0.63378      0.62811      0.62214
  3861428.49 |       0.69957      0.69180      0.68533      0.67853      0.67181
 0.66516      0.65858      0.65207      0.64527
  3861399.04 |       0.72850      0.72011      0.71308      0.70531      0.69842
 0.69121      0.68370      0.67627      0.66929
  3861369.59 |       0.75796      0.74933      0.74167      0.73323      0.72531
 0.71788      0.70972      0.70204      0.69444
  3861340.14 |       0.78870      0.77976      0.77092      0.76217      0.75352
 0.74495      0.73648      0.72889      0.71978
  3861310.69 |       0.82101      0.81072      0.80103      0.79144      0.78195
 0.77300      0.76371      0.75494      0.74542
  3861281.24 |       0.85467      0.84336      0.83218      0.82210      0.81166
 0.80133      0.79113      0.78104      0.77150
  3861251.79 |       0.88885      0.87638      0.86408      0.85293      0.84095
 0.82960      0.81841      0.80781      0.79689
  3861222.34 |       0.92313      0.90938      0.89585      0.88304      0.87041
 0.85747      0.84522      0.83362      0.82219
  3861192.89 |       0.95647      0.94194      0.92819      0.91411      0.89924
 0.88515      0.87131      0.85917      0.84720
  3861163.44 |       0.98961      0.97427      0.96030      0.94437      0.92771
 0.91192      0.89849      0.88430      0.87134
  3861133.99 |       1.02046      1.00613      0.99028      0.97306      0.95514
 0.93818      0.92470      0.90744      0.89306
  3861104.54 |       1.05120      1.03438      1.01671      0.99887      0.98089
 0.96281      0.94465      0.92851      0.91325
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 136
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
```

, L0000194   , L0000195   , L0000196   ,
                L0000197   , L0000198   , L0000199   , L0000200   , L0000201
, L0000202   , L0000203   ,

                                *** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

    Y-COORD | X-COORD (METERS)
    (METERS) | 491888.31   491919.10   491949.89   491980.68   492011.47
492042.26   492073.05   492103.84   492134.63
 -
- -

  3861693.54 | 0.46744   0.46146   0.45831   0.45493   0.45159
 0.44826   0.44403   0.44055   0.43734
  3861664.09 | 0.48225   0.47806   0.47443   0.47159   0.46825
 0.46470   0.45829   0.45461   0.45144
  3861634.64 | 0.49804   0.49441   0.49108   0.48751   0.48421
 0.48069   0.47620   0.47031   0.46595
  3861605.19 | 0.51629   0.51213   0.50828   0.50420   0.50015
 0.49666   0.49218   0.48800   0.48287
  3861575.74 | 0.53489   0.53016   0.52577   0.52197   0.51738
 0.51418   0.51098   0.50470   0.50107
  3861546.29 | 0.55442   0.54967   0.54497   0.54032   0.53683
 0.53197   0.52636   0.52163   0.51748
  3861516.84 | 0.57461   0.56953   0.56420   0.55893   0.55546
 0.55056   0.54404   0.53955   0.53455
  3861487.39 | 0.59481   0.58969   0.58462   0.57897   0.57400
 0.56994   0.56300   0.55760   0.55253
  3861457.94 | 0.61624   0.61073   0.60494   0.59985   0.59416
 0.59006   0.58236   0.57685   0.57138
  3861428.49 | 0.63856   0.63260   0.62669   0.62083   0.61470
 0.61020   0.60291   0.59663   0.59042
  3861399.04 | 0.66239   0.65591   0.64948   0.64276   0.63610
 0.63082   0.62330   0.61650   0.61009
  3861369.59 | 0.68729   0.67910   0.67281   0.66514   0.65789
 0.65174   0.64328   0.63625   0.62992
  3861340.14 | 0.71273   0.70304   0.69574   0.68776   0.67986
 0.67309   0.66465   0.65698   0.64940
  3861310.69 | 0.73723   0.72752   0.71872   0.71039   0.70215
 0.69470   0.68555   0.67755   0.66897
  3861281.24 | 0.76164   0.75191   0.74229   0.73279   0.72455
 0.71489   0.70537   0.69670   0.68778
  3861251.79 | 0.78570   0.77551   0.76545   0.75552   0.74611
 0.73528   0.72539   0.71527   0.70568
  3861222.34 | 0.81002   0.79936   0.78842   0.77723   0.76623
 0.75501   0.74475   0.73429   0.72363

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                 INCLUDING SOURCE(S):   L0000176   , L0000177
, L0000178   , L0000179   , L0000180   ,
                    L0000181   , L0000182   , L0000183   , L0000184   , L0000185
, L0000186   , L0000187   , L0000188   ,
                    L0000189   , L0000190   , L0000191   , L0000192   , L0000193
, L0000194   , L0000195   , L0000196   ,
                    L0000197   , L0000198   , L0000199   , L0000200   , L0000201
, L0000202   , L0000203   ,

                                  *** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 492165.42   492196.21   492227.00
 -
- -

  3861693.54 | 0.43415   0.43077   0.42786
  3861664.09 | 0.44806   0.44471   0.44162
  3861634.64 | 0.46141   0.45929   0.45553
  3861605.19 | 0.47731   0.47403   0.47005
  3861575.74 | 0.49469   0.48966   0.48568
  3861546.29 | 0.51258   0.50800   0.50296
  3861516.84 | 0.53041   0.52524   0.52065
  3861487.39 | 0.54779   0.54281   0.53788
  3861457.94 | 0.56597   0.56060   0.55556
  3861428.49 | 0.58486   0.57905   0.57330
  3861399.04 | 0.60404   0.59774   0.59178
  3861369.59 | 0.62302   0.61648   0.61000

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):   L0000176   , L0000177 , L0000178   , L0000179   , L0000180   ,
                L0000181   , L0000182   , L0000183   , L0000184   , L0000185 , L0000186   , L0000187   , L0000188   ,
                L0000189   , L0000190   , L0000191   , L0000192   , L0000193 , L0000194   , L0000195   , L0000196   ,
                L0000197   , L0000198   , L0000199   , L0000200   , L0000201 , L0000202   , L0000203   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

```
        488920.03    3861067.49        1.56039                    488996.74
3861113.92        1.52067
        488974.03    3861097.77        1.54789                    488931.63
3860976.64        2.04074
        488935.67    3861034.68        1.76226                    488959.90
3861061.43        1.69823
        489165.81    3861208.80        1.49182                    489317.74
3861109.28        2.21560
        489385.87    3861014.75        3.31496                    489372.24
3861112.69        2.17510
        489420.79    3861106.73        2.19739                    489436.12
3861037.74        2.91642
        489488.07    3861036.89        2.93528                    489473.59
3861110.99        2.13936
        489431.01    3861167.20        1.77247                    489662.66
3860915.95        6.83381
        489644.78    3861076.07        2.54679                    489659.26
3861099.06        2.29876
        489735.91    3861020.71        3.47367                    489700.14
3861029.23        3.30180
        489708.65    3861062.44        2.80015                    489779.34
3861099.06        2.40816
        489835.95    3859138.59        0.11315                    489885.95
3859138.59        0.11304
        489935.95    3859138.59        0.11220                    489985.95
3859138.59        0.10869
        490035.95    3859138.59        0.10532                    490085.95
3859138.59        0.10408
        490135.95    3859138.59        0.10504                    490185.95
3859138.59        0.10465
        490235.95    3859138.59        0.10258                    490285.95
3859138.59        0.09788
        490335.95    3859138.59        0.09232                    490385.95
3859138.59        0.08645
        490435.95    3859138.59        0.08637                    490485.95
3859138.59        0.08496
        490535.95    3859138.59        0.08194                    490585.95
3859138.59        0.08092
        490635.95    3859138.59        0.07817                    490685.95
3859138.59        0.07589
        490735.95    3859138.59        0.07493                    490785.95
3859138.59        0.07303
        490835.95    3859138.59        0.06980                    490885.95
3859138.59        0.06650
        489835.95    3859188.59        0.12030                    489885.95
3859188.59        0.11953
        489935.95    3859188.59        0.11845                    489985.95
3859188.59        0.11452
        490035.95    3859188.59        0.11295                    490085.95
3859188.59        0.11391
```

```
         490135.95    3859188.59        0.11265                      490185.95
3859188.59        0.11036
         490235.95    3859188.59        0.10614                      490285.95
3859188.59        0.10223
         490335.95    3859188.59        0.09938                      490385.95
3859188.59        0.09655
         490435.95    3859188.59        0.09422                      490485.95
3859188.59        0.09031
         490535.95    3859188.59        0.08899                      490585.95
3859188.59        0.08851
         490635.95    3859188.59        0.08418                      490685.95
3859188.59        0.07839
         490735.95    3859188.59        0.07479                      490785.95
3859188.59        0.07200
         490835.95    3859188.59        0.07275                      490885.95
3859188.59        0.06955
         489835.95    3859238.59        0.12713                      489885.95
3859238.59        0.12692
```



```
                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                 L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                 L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                 L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         489935.95    3859238.59        0.12474                      489985.95
3859238.59        0.11958
         490035.95    3859238.59        0.11944                      490085.95
```

3859238.59 0.12127
490135.95 3859238.59 0.12085 490185.95
3859238.59 0.11895
490235.95 3859238.59 0.11379 490285.95
3859238.59 0.10912
490335.95 3859238.59 0.10599 490385.95
3859238.59 0.10533
490435.95 3859238.59 0.10487 490485.95
3859238.59 0.10509
490535.95 3859238.59 0.10139 490585.95
3859238.59 0.09713
490635.95 3859238.59 0.09307 490685.95
3859238.59 0.09197
490735.95 3859238.59 0.08678 490785.95
3859238.59 0.08463
490835.95 3859238.59 0.08188 490885.95
3859238.59 0.07774
489835.95 3859288.59 0.13700 489885.95
3859288.59 0.13443
489935.95 3859288.59 0.13159 489985.95
3859288.59 0.12632
490035.95 3859288.59 0.12764 490085.95
3859288.59 0.12829
490135.95 3859288.59 0.12812 490185.95
3859288.59 0.12602
490235.95 3859288.59 0.12200 490285.95
3859288.59 0.12010
490335.95 3859288.59 0.11727 490385.95
3859288.59 0.11572
490435.95 3859288.59 0.11302 490485.95
3859288.59 0.11600
490535.95 3859288.59 0.11959 490585.95
3859288.59 0.11393
490635.95 3859288.59 0.11285 490685.95
3859288.59 0.10856
490735.95 3859288.59 0.10048 490785.95
3859288.59 0.09669
490835.95 3859288.59 0.09312 490885.95
3859288.59 0.08933
489835.95 3859338.59 0.14753 489885.95
3859338.59 0.14659
489935.95 3859338.59 0.13947 489985.95
3859338.59 0.13791
490035.95 3859338.59 0.13824 490085.95
3859338.59 0.13957
490135.95 3859338.59 0.13753 490185.95
3859338.59 0.13550
490235.95 3859338.59 0.13395 490285.95
3859338.59 0.13292
490335.95 3859338.59 0.13146 490385.95

```
3859338.59        0.13217
         490435.95    3859338.59        0.13364                        490485.95
3859338.59        0.13368
         490535.95    3859338.59        0.13340                        490585.95
3859338.59        0.13137
         490635.95    3859338.59        0.12915                        490685.95
3859338.59        0.12247
         490735.95    3859338.59        0.11475                        490785.95
3859338.59        0.10943
         490835.95    3859338.59        0.10872                        490885.95
3859338.59        0.10434
         489835.95    3859388.59        0.15631                        489885.95
3859388.59        0.15490
         489935.95    3859388.59        0.15454                        489985.95
3859388.59        0.15201
         490035.95    3859388.59        0.15284                        490085.95
3859388.59        0.15335
         490135.95    3859388.59        0.15144                        490185.95
3859388.59        0.14865
         490235.95    3859388.59        0.14725                        490285.95
3859388.59        0.14897
         490335.95    3859388.59        0.14966                        490385.95
3859388.59        0.15200
         490435.95    3859388.59        0.15464                        490485.95
3859388.59        0.15522
         490535.95    3859388.59        0.15357                        490585.95
3859388.59        0.15105
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 140
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                 L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                 L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                 L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490635.95	3859388.59	0.14566	490685.95	3859388.59	0.13454
490735.95	3859388.59	0.12251	490785.95	3859388.59	0.12170
490835.95	3859388.59	0.12519	490885.95	3859388.59	0.12345
489835.95	3859438.59	0.17250	489885.95	3859438.59	0.16926
489935.95	3859438.59	0.16797	489985.95	3859438.59	0.16754
490035.95	3859438.59	0.16754	490085.95	3859438.59	0.16542
490135.95	3859438.59	0.16536	490185.95	3859438.59	0.16516
490235.95	3859438.59	0.16544	490285.95	3859438.59	0.16639
490335.95	3859438.59	0.16936	490385.95	3859438.59	0.17215
490435.95	3859438.59	0.17384	490485.95	3859438.59	0.17314
490535.95	3859438.59	0.17134	490585.95	3859438.59	0.16775
490635.95	3859438.59	0.16176	490685.95	3859438.59	0.15520
490735.95	3859438.59	0.15032	490785.95	3859438.59	0.14324
490835.95	3859438.59	0.14211	490885.95	3859438.59	0.14150
490085.95	3859488.59	0.18147	490135.95	3859488.59	0.18198
490185.95	3859488.59	0.18496	490235.95	3859488.59	0.18777
490285.95	3859488.59	0.18861	490335.95	3859488.59	0.19176
490385.95	3859488.59	0.19299	490435.95	3859488.59	0.19412
490485.95	3859488.59	0.19252	490535.95	3859488.59	0.18963
490585.95	3859488.59	0.18431	490635.95	3859488.59	0.17922
490685.95	3859488.59	0.17445	490735.95	3859488.59	0.16835
490785.95	3859488.59	0.16378	490835.95	3859488.59	0.16197

```
         490885.95    3859488.59        0.15996                       490085.95
3859538.59        0.19920
         490135.95    3859538.59        0.20191                       490185.95
3859538.59        0.20629
         490235.95    3859538.59        0.21236                       490285.95
3859538.59        0.21625
         490335.95    3859538.59        0.21715                       490385.95
3859538.59        0.21726
         490435.95    3859538.59        0.21479                       490485.95
3859538.59        0.21218
         490535.95    3859538.59        0.20839                       490585.95
3859538.59        0.20320
         490635.95    3859538.59        0.19836                       490685.95
3859538.59        0.19384
         490735.95    3859538.59        0.18820                       490785.95
3859538.59        0.18475
         490835.95    3859538.59        0.18326                       490885.95
3859538.59        0.17941
         490135.95    3859588.59        0.22541                       490185.95
3859588.59        0.22974
         490235.95    3859588.59        0.23642                       490285.95
3859588.59        0.24185
         490335.95    3859588.59        0.24228                       490385.95
3859588.59        0.24311
         490435.95    3859588.59        0.24017                       490485.95
3859588.59        0.23507
         490535.95    3859588.59        0.22877                       490585.95
3859588.59        0.22416
         490635.95    3859588.59        0.21841                       490685.95
3859588.59        0.21471
         490735.95    3859588.59        0.21043                       490785.95
3859588.59        0.20772
         490835.95    3859588.59        0.20852                       490885.95
3859588.59        0.20973
         490135.95    3859638.59        0.24187                       490185.95
3859638.59        0.25671
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 141
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                 L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
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L0000189 , L0000190 , L0000191 , L0000192 , L0000193
, L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201
, L0000202 , L0000203 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490235.95	3859638.59	0.26145	490285.95	3859638.59	0.26734
490335.95	3859638.59	0.26840	490385.95	3859638.59	0.26591
490435.95	3859638.59	0.26405	490485.95	3859638.59	0.25877
490535.95	3859638.59	0.25365	490585.95	3859638.59	0.24790
490635.95	3859638.59	0.24241	490685.95	3859638.59	0.23920
490735.95	3859638.59	0.23727	490785.95	3859638.59	0.23848
490835.95	3859638.59	0.24355	490885.95	3859638.59	0.25096
490135.95	3859688.59	0.27621	490185.95	3859688.59	0.28406
490235.95	3859688.59	0.28906	490285.95	3859688.59	0.28927
490335.95	3859688.59	0.29150	490385.95	3859688.59	0.29258
490435.95	3859688.59	0.28835	490485.95	3859688.59	0.28441
490535.95	3859688.59	0.27932	490585.95	3859688.59	0.27707
490635.95	3859688.59	0.27187	490685.95	3859688.59	0.27092
490735.95	3859688.59	0.27281	490785.95	3859688.59	0.27838
490835.95	3859688.59	0.28788	490885.95	3859688.59	0.30305
490085.95	3859738.59	0.29757	490135.95	3859738.59	0.30722
490185.95	3859738.59	0.31512	490235.95	3859738.59	0.32011
490285.95	3859738.59	0.31983	490335.95		

```
3859738.59        0.32085
         490385.95    3859738.59        0.31591                      490435.95
3859738.59        0.31569
         490485.95    3859738.59        0.31299                      490535.95
3859738.59        0.31469
         490585.95    3859738.59        0.31268                      490635.95
3859738.59        0.31300
         490685.95    3859738.59        0.31492                      490735.95
3859738.59        0.32341
         490785.95    3859738.59        0.33514                      490835.95
3859738.59        0.34713
         490885.95    3859738.59        0.35985                      490085.95
3859788.59        0.33186
         490135.95    3859788.59        0.34166                      490185.95
3859788.59        0.34806
         490235.95    3859788.59        0.35137                      490285.95
3859788.59        0.35276
         490335.95    3859788.59        0.35249                      490385.95
3859788.59        0.35280
         490435.95    3859788.59        0.35231                      490485.95
3859788.59        0.35472
         490535.95    3859788.59        0.35554                      490585.95
3859788.59        0.36523
         490635.95    3859788.59        0.36653                      490685.95
3859788.59        0.37435
         490735.95    3859788.59        0.39029                      490785.95
3859788.59        0.40254
         490835.95    3859788.59        0.41170                      490885.95
3859788.59        0.41610
         490085.95    3859838.59        0.37278                      490135.95
3859838.59        0.38093
         490185.95    3859838.59        0.38470                      490235.95
3859838.59        0.38570
         490285.95    3859838.59        0.38690                      490335.95
3859838.59        0.38953
         490385.95    3859838.59        0.39231                      490435.95
3859838.59        0.39679
         490485.95    3859838.59        0.40406                      490535.95
3859838.59        0.41237
         490585.95    3859838.59        0.42346                      490635.95
3859838.59        0.43694
         490685.95    3859838.59        0.45295                      490735.95
3859838.59        0.46288
         490785.95    3859838.59        0.46951                      490835.95
3859838.59        0.47996
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490885.95	3859838.59	0.48630	490085.95	3859888.59	0.41933
490135.95	3859888.59	0.42528	490185.95	3859888.59	0.42703
490235.95	3859888.59	0.42808	490285.95	3859888.59	0.43081
490335.95	3859888.59	0.43666	490385.95	3859888.59	0.44392
490435.95	3859888.59	0.45531	490485.95	3859888.59	0.46806
490535.95	3859888.59	0.48236	490585.95	3859888.59	0.49644
490635.95	3859888.59	0.51288	490685.95	3859888.59	0.52872
490735.95	3859888.59	0.54321	490785.95	3859888.59	0.55703
490835.95	3859888.59	0.56635	490885.95	3859888.59	0.56651
490135.95	3859938.59	0.47518	490185.95	3859938.59	0.47696
490235.95	3859938.59	0.48065	490285.95	3859938.59	0.48747
490335.95	3859938.59	0.49902	490385.95	3859938.59	0.51459
490435.95	3859938.59	0.53056	490485.95	3859938.59	0.54885

490535.95 3859938.59 0.56707 490585.95
3859938.59 0.58524
490635.95 3859938.59 0.60353 490685.95
3859938.59 0.61666
490735.95 3859938.59 0.62962 490785.95
3859938.59 0.64347
490835.95 3859938.59 0.65460 490885.95
3859938.59 0.67163
490135.95 3859988.59 0.53523 490185.95
3859988.59 0.54050
490235.95 3859988.59 0.54689 490285.95
3859988.59 0.56124
490335.95 3859988.59 0.58076 490385.95
3859988.59 0.60392
490435.95 3859988.59 0.62583 490485.95
3859988.59 0.64889
490535.95 3859988.59 0.67195 490585.95
3859988.59 0.69391
490635.95 3859988.59 0.71065 490685.95
3859988.59 0.72437
490735.95 3859988.59 0.73819 490785.95
3859988.59 0.75087
490835.95 3859988.59 0.76227 490885.95
3859988.59 0.77310
490135.95 3860038.59 0.61336 490185.95
3860038.59 0.62457
490235.95 3860038.59 0.64284 490285.95
3860038.59 0.66708
490335.95 3860038.59 0.69273 490385.95
3860038.59 0.72155
490435.95 3860038.59 0.74851 490485.95
3860038.59 0.77452
490535.95 3860038.59 0.79901 490585.95
3860038.59 0.82068
490635.95 3860038.59 0.83870 490685.95
3860038.59 0.85521
490735.95 3860038.59 0.86549 490785.95
3860038.59 0.87481
490835.95 3860038.59 0.88244 490885.95
3860038.59 0.88781
490135.95 3860088.59 0.71887 490185.95
3860088.59 0.74128
490235.95 3860088.59 0.77180 490285.95
3860088.59 0.80618
490335.95 3860088.59 0.84153 490385.95
3860088.59 0.87377
490435.95 3860088.59 0.90362 490485.95
3860088.59 0.92957
490535.95 3860088.59 0.95297 490585.95
3860088.59 0.97257

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                  INCLUDING SOURCE(S):   L0000176   , L0000177
, L0000178   , L0000179   , L0000180   ,
                  L0000181   , L0000182   , L0000183   , L0000184   , L0000185
, L0000186   , L0000187   , L0000188   ,
                  L0000189   , L0000190   , L0000191   , L0000192   , L0000193
, L0000194   , L0000195   , L0000196   ,
                  L0000197   , L0000198   , L0000199   , L0000200   , L0000201
, L0000202   , L0000203   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         490835.95   3860088.59   1.01672   490885.95
3860088.59   1.01532
         490135.95   3860138.59   0.87222   490185.95
3860138.59   0.90792
         490235.95   3860138.59   0.95181   490285.95
3860138.59   0.99445
         490335.95   3860138.59   1.03321   490385.95
3860138.59   1.06754
         490435.95   3860138.59   1.09601   490485.95
3860138.59   1.11963
         490535.95   3860138.59   1.13903   490585.95
3860138.59   1.15266
         490635.95   3860138.59   1.16145   490685.95
3860138.59   1.16582
         490735.95   3860138.59   1.16765   490785.95
3860138.59   1.16818
         490835.95   3860138.59   1.16349   490885.95

3860138.59 1.15423
490935.95 3860138.59 1.14314 490985.95
3860138.59 1.13279
491035.95 3860138.59 1.12176 490135.95
3860188.59 1.08777
490185.95 3860188.59 1.13949 490235.95
3860188.59 1.19310
490285.95 3860188.59 1.23890 490335.95
3860188.59 1.27805
490385.95 3860188.59 1.30948 490435.95
3860188.59 1.33312
490485.95 3860188.59 1.34885 490535.95
3860188.59 1.35904
490585.95 3860188.59 1.36493 490635.95
3860188.59 1.36323
490685.95 3860188.59 1.35955 490735.95
3860188.59 1.34991
490785.95 3860188.59 1.34038 490835.95
3860188.59 1.32841
490885.95 3860188.59 1.31092 490935.95
3860188.59 1.29151
490985.95 3860188.59 1.27349 491035.95
3860188.59 1.25280
491085.95 3860188.59 1.22966 491135.95
3860188.59 1.20970
490135.95 3860238.59 1.39422 490185.95
3860238.59 1.45700
490235.95 3860238.59 1.51113 490285.95
3860238.59 1.55458
490335.95 3860238.59 1.58679 490385.95
3860238.59 1.60811
490435.95 3860238.59 1.62021 490485.95
3860238.59 1.62249
490535.95 3860238.59 1.61929 490585.95
3860238.59 1.61090
490635.95 3860238.59 1.59791 490685.95
3860238.59 1.58132
490735.95 3860238.59 1.56109 490785.95
3860238.59 1.53819
490835.95 3860238.59 1.51292 490885.95
3860238.59 1.48657
490935.95 3860238.59 1.45851 490985.95
3860238.59 1.43533
491035.95 3860238.59 1.40345 491085.95
3860238.59 1.36823
491135.95 3860238.59 1.33666 490135.95
3860288.59 1.81494
490185.95 3860288.59 1.87717 490235.95
3860288.59 1.92439
490285.95 3860288.59 1.95310 490335.95

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                  INCLUDING SOURCE(S):   L0000176   , L0000177
, L0000178   , L0000179   , L0000180   ,
                  L0000181   , L0000182   , L0000183   , L0000184   , L0000185
, L0000186   , L0000187   , L0000188   ,
                  L0000189   , L0000190   , L0000191   , L0000192   , L0000193
, L0000194   , L0000195   , L0000196   ,
                  L0000197   , L0000198   , L0000199   , L0000200   , L0000201
, L0000202   , L0000203   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         490985.95   3860288.59   1.59764   491035.95
3860288.59   1.55470
         491085.95   3860288.59   1.51031   490135.95
3860338.59   2.38373
         490185.95   3860338.59   2.42608   490235.95
3860338.59   2.44847
         490285.95   3860338.59   2.44741   490335.95
3860338.59   2.43097

490385.95 3860338.59 2.40356 490435.95
3860338.59 2.36680
490485.95 3860338.59 2.32264 490535.95
3860338.59 2.27524
490585.95 3860338.59 2.22073 490635.95
3860338.59 2.16526
490685.95 3860338.59 2.10884 490735.95
3860338.59 2.05126
490785.95 3860338.59 1.99731 490835.95
3860338.59 1.93630
490885.95 3860338.59 1.87675 490935.95
3860338.59 1.81697
490985.95 3860338.59 1.75786 491035.95
3860338.59 1.70270
491085.95 3860338.59 1.64836 490135.95
3860388.59 3.12975
490185.95 3860388.59 3.12328 490235.95
3860388.59 3.09640
490285.95 3860388.59 3.04797 490335.95
3860388.59 2.98569
490385.95 3860388.59 2.91241 490435.95
3860388.59 2.83340
490485.95 3860388.59 2.75164 490535.95
3860388.59 2.66492
490585.95 3860388.59 2.57727 490635.95
3860388.59 2.48750
490685.95 3860388.59 2.40218 490735.95
3860388.59 2.31523
490785.95 3860388.59 2.23229 490835.95
3860388.59 2.15408
490135.95 3860438.59 4.07612 490185.95
3860438.59 3.99075
490235.95 3860438.59 3.88163 490285.95
3860438.59 3.75722
490335.95 3860438.59 3.62089 490385.95
3860438.59 3.48423
490435.95 3860438.59 3.34547 490485.95
3860438.59 3.20707
490535.95 3860438.59 3.07356 490585.95
3860438.59 2.94105
490635.95 3860438.59 2.81317 490685.95
3860438.59 2.69286
490735.95 3860438.59 2.58003 490785.95
3860438.59 2.46889
490835.95 3860438.59 2.36932 490135.95
3860488.59 5.24557
490185.95 3860488.59 5.01781 490235.95
3860488.59 4.77579
490285.95 3860488.59 4.54271 490335.95
3860488.59 4.30651

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         490385.95    3860488.59        4.08508                      490435.95
3860488.59        3.87952
         490485.95    3860488.59        3.67299                      490535.95
3860488.59        3.47693
         490585.95    3860488.59        3.29403                      490635.95
3860488.59        3.12763
         490685.95    3860488.59        2.96645                      490735.95
3860488.59        2.82207
         490785.95    3860488.59        2.68624                      490135.95
3860538.59        6.55417
         490185.95    3860538.59        6.14443                      490235.95
3860538.59        5.70942
         490285.95    3860538.59        5.32722                      490335.95
3860538.59        4.98164
         490385.95    3860538.59        4.66888                      490435.95
3860538.59        4.37596
         490485.95    3860538.59        4.10801                      490535.95
3860538.59        3.87679
         490585.95    3860538.59        3.61859                      490635.95
3860538.59        3.40279
         490685.95    3860538.59        3.21068                      490735.95
3860538.59        3.03110
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 145
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                  L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - -
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3860738.59   4.92877
         490485.95   3860738.59   4.53518   490535.95
3860738.59   4.16533
         490585.95   3860738.59   3.86738   490635.95
3860738.59   3.60970
         490685.95   3860738.59   3.38924   490735.95
3860738.59   3.18826
         490785.95   3860738.59   3.00936   490135.95
3860788.59   7.82775
         490185.95   3860788.59   7.08755   490235.95
3860788.59   6.44366
         490285.95   3860788.59   5.89003   490335.95
3860788.59   5.39904
         490385.95   3860788.59   4.99997   490435.95
3860788.59   4.62448
         490485.95   3860788.59   4.30815   490535.95
3860788.59   3.99276
         490585.95   3860788.59   3.69222   490635.95
3860788.59   3.44793
         490685.95   3860788.59   3.23778   490735.95
3860788.59   3.05514
         490785.95   3860788.59   2.87647   489985.95
3860838.59   8.90350
         490035.95   3860838.59   8.14676   490085.95
3860838.59   7.48145
         490135.95   3860838.59   6.87799   490185.95
3860838.59   6.29416
         490235.95   3860838.59   5.78242   490285.95
3860838.59   5.34472
         490335.95   3860838.59   4.93651   490385.95
3860838.59   4.57998

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                 INCLUDING SOURCE(S):   L0000176   , L0000177
, L0000178   , L0000179   , L0000180   ,
                 L0000181   , L0000182   , L0000183   , L0000184   , L0000185
, L0000186   , L0000187   , L0000188   ,
                 L0000189   , L0000190   , L0000191   , L0000192   , L0000193
, L0000194   , L0000195   , L0000196   ,
                 L0000197   , L0000198   , L0000199   , L0000200   , L0000201
, L0000202   , L0000203   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490435.95	3860838.59	4.27699	490485.95	3860838.59	3.99607
490535.95	3860838.59	3.73247	490585.95	3860838.59	3.48311
490635.95	3860838.59	3.25872	490685.95	3860838.59	3.06701
490735.95	3860838.59	2.90007	490785.95	3860838.59	2.74225
490835.95	3860838.59	2.59330	489835.95	3860888.59	8.30946
489885.95	3860888.59	7.92402	489935.95	3860888.59	7.48374
489985.95	3860888.59	7.04506	490035.95	3860888.59	6.61082
490085.95	3860888.59	6.20627	490135.95	3860888.59	5.80001
490185.95	3860888.59	5.40332	490235.95	3860888.59	5.04587
490285.95	3860888.59	4.71377	490335.95	3860888.59	4.40235
490385.95	3860888.59	4.13439	490435.95	3860888.59	3.89133
490485.95	3860888.59	3.65760	490535.95	3860888.59	3.43836
490585.95	3860888.59	3.23180	490635.95	3860888.59	3.03976
490685.95	3860888.59	2.86996	490735.95	3860888.59	2.71662
490785.95	3860888.59	2.57130	490835.95	3860888.59	2.44442
490885.95	3860888.59	2.33280	490935.95	3860888.59	2.22124
489835.95	3860938.59	5.84693	489885.95	3860938.59	5.77282
489935.95	3860938.59	5.64456	489985.95	3860938.59	5.45733
490035.95	3860938.59	5.23293	490085.95	3860938.59	4.99304
490135.95	3860938.59	4.72820	490185.95	3860938.59	4.49870

```
         490235.95    3860938.59        4.27179                      490285.95
3860938.59        4.05661
         490335.95    3860938.59        3.83504                      490385.95
3860938.59        3.64596
         490435.95    3860938.59        3.46484                      490485.95
3860938.59        3.28386
         490535.95    3860938.59        3.11546                      490585.95
3860938.59        2.94932
         490635.95    3860938.59        2.79428                      490685.95
3860938.59        2.65272
         490735.95    3860938.59        2.52110                      490785.95
3860938.59        2.39944
         490835.95    3860938.59        2.29427                      490885.95
3860938.59        2.19747
         490935.95    3860938.59        2.09812                      489835.95
3860988.59        4.23153
         489885.95    3860988.59        4.25465                      489935.95
3860988.59        4.25405
         489985.95    3860988.59        4.21531                      490035.95
3860988.59        4.12906
         490085.95    3860988.59        4.01726                      490135.95
3860988.59        3.87547
         490185.95    3860988.59        3.74079                      490235.95
3860988.59        3.57739
         490285.95    3860988.59        3.42637                      490335.95
3860988.59        3.28529
         490385.95    3860988.59        3.15011                      490435.95
3860988.59        3.03153
         490485.95    3860988.59        2.90003                      490535.95
3860988.59        2.76820
         490585.95    3860988.59        2.64463                      490635.95
3860988.59        2.53051
         490685.95    3860988.59        2.41622                      490735.95
3860988.59        2.30724
         490785.95    3860988.59        2.20947                      490835.95
3860988.59        2.12095
         490885.95    3860988.59        2.04042                      490935.95
3860988.59        1.95585
         489835.95    3861038.59        3.20439                      489885.95
3861038.59        3.22069
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 147
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
```

INCLUDING SOURCE(S): L0000176 , L0000177
, L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185
, L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193
, L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201
, L0000202 , L0000203 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
489935.95	3861038.59	3.23026	489985.95	3861038.59	3.24284
490035.95	3861038.59	3.24243	490085.95	3861038.59	3.21493
490135.95	3861038.59	3.16055	490185.95	3861038.59	3.08409
490235.95	3861038.59	2.99944	490285.95	3861038.59	2.89535
490335.95	3861038.59	2.79450	490385.95	3861038.59	2.71086
490435.95	3861038.59	2.62731	490485.95	3861038.59	2.53453
490535.95	3861038.59	2.43913	490585.95	3861038.59	2.34549
490635.95	3861038.59	2.25425	490685.95	3861038.59	2.16754
490735.95	3861038.59	2.08563	490785.95	3861038.59	2.00983
490835.95	3861038.59	1.93865	490885.95	3861038.59	1.86961
490935.95	3861038.59	1.80439	489835.95	3861088.59	2.54355
489885.95	3861088.59	2.53306	489935.95	3861088.59	2.52924
489985.95	3861088.59	2.53489	490035.95	3861088.59	2.54996
490085.95	3861088.59	2.56722	490135.95	3861088.59	2.57486
490185.95	3861088.59	2.56762	490235.95	3861088.59	2.51894
490285.95	3861088.59	2.46034	490335.95		

3861088.59   2.39201
         490385.95   3861088.59   2.33487   490435.95
3861088.59   2.26905
         490485.95   3861088.59   2.20268   490535.95
3861088.59   2.14081
         490585.95   3861088.59   2.06943   490635.95
3861088.59   1.99619
         490685.95   3861088.59   1.92991   490735.95
3861088.59   1.86891
         490785.95   3861088.59   1.80983   490835.95
3861088.59   1.75318
         490885.95   3861088.59   1.69882   490935.95
3861088.59   1.64773
         489020.79   3862564.85   0.19510   489043.15
3862350.21   0.23631
         489072.96   3862287.60   0.25158   488980.55
3862078.92   0.30960
         489037.19   3862822.72   0.15746   489120.66
3863016.49   0.13396
         489037.19   3863350.37   0.10838

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                    INCLUDING SOURCE(S):   L0000204   , L0000205 , L0000206   , L0000207   , L0000208   ,
                  L0000209   , L0000210   , L0000211   , L0000212   , L0000213 , L0000214   , L0000215   , L0000216   ,
                  L0000217   , L0000218   , L0000219   , L0000220   , L0000221 , L0000222   , L0000223   , L0000224   ,
                  L0000225   , L0000226   , L0000227   , L0000228   , L0000229 , L0000230   , L0000231   ,

                                     *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489237.26   489256.56   489275.86   489295.16   489314.46   489333.76   489353.06   489372.36   489391.66
 -

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- - - - - - - - - - - - - - - - - - - - - - - -

  3859957.07 |       0.57479      0.56555      0.56861      0.56709      0.55929
 0.54995      0.54167      0.52796      0.50891
  3859937.65 |       0.55579      0.54479      0.54466      0.54509      0.53584
 0.52957      0.52292      0.51124      0.49464
  3859918.23 |       0.53070      0.52139      0.52129      0.51578      0.51272
 0.50954      0.50132      0.48881      0.47293
  3859898.81 |       0.50917      0.50330      0.50485      0.50072      0.49924
 0.49435      0.48493      0.47266      0.45882
  3859879.39 |       0.49299      0.48856      0.49304      0.49149      0.48753
 0.48269      0.47282      0.46100      0.44634
  3859859.97 |       0.47533      0.47137      0.47328      0.47164      0.46770
 0.46290      0.45551      0.44639      0.43129
  3859840.55 |       0.45687      0.45308      0.45272      0.45102      0.44911
 0.44436      0.43716      0.42922      0.41697
  3859821.13 |       0.43780      0.43396      0.43074      0.43022      0.42897
 0.42425      0.41800      0.41142      0.40250
  3859801.71 |       0.41798      0.41537      0.41477      0.41214      0.41270
 0.41058      0.40191      0.39631      0.38964
  3859782.29 |       0.40244      0.39858      0.39971      0.39444      0.39558
 0.39517      0.38677      0.38132      0.37489
  3859762.87 |       0.38838      0.38459      0.38487      0.38032      0.37879
 0.37595      0.37180      0.36056      0.35428
  3859743.45 |       0.37511      0.37137      0.36977      0.36697      0.36363
 0.36080      0.35510      0.34755      0.33979
  3859724.03 |       0.36099      0.35886      0.35717      0.35433      0.35099
 0.34652      0.34096      0.33596      0.32941
  3859704.61 |       0.34766      0.34488      0.34524      0.34236      0.34055
 0.33764      0.33220      0.32583      0.31868
  3859685.19 |       0.33603      0.33372      0.33538      0.33304      0.33112
 0.32678      0.32091      0.31328      0.30721
  3859665.77 |       0.32547      0.32456      0.32505      0.32536      0.32203
 0.31725      0.31020      0.30080      0.29427
  3859646.35 |       0.31406      0.31304      0.31154      0.31182      0.30797
 0.30376      0.29737      0.29097      0.28468
  3859626.93 |       0.30411      0.30210      0.29863      0.29889      0.29424
 0.29089      0.28727      0.28163      0.27499
  3859607.51 |       0.29377      0.29253      0.28954      0.28706      0.28456
 0.28048      0.27696      0.27220      0.26580
  3859588.09 |       0.28220      0.27999      0.27908      0.27656      0.27407
 0.27080      0.26681      0.26218      0.25653
  3859568.67 |       0.27159      0.26960      0.26910      0.26734      0.26433
 0.26110      0.25770      0.25268      0.24774
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489410.96	489430.26	489449.56	489468.86	489488.16	489507.46	489526.76	489546.06	489565.36
3859957.07	0.48818	0.46840	0.44450	0.42688	0.40580	0.39065	0.38546	0.38162	0.37525
3859937.65	0.47645	0.45914	0.43949	0.42567	0.41463	0.40567	0.40397	0.40024	0.39439
3859918.23	0.45423	0.43357	0.41891	0.40981	0.40112	0.39409	0.39239	0.38761	0.38030
3859898.81	0.44112	0.42284	0.40500	0.39235	0.38528	0.38235	0.38067	0.37367	0.37001
3859879.39	0.43309	0.41824	0.39424	0.37608	0.37045	0.37351	0.37064	0.36169	0.35945
3859859.97	0.41848	0.40653	0.39058	0.37566	0.36784	0.36599	0.36206	0.35472	0.35373
3859840.55	0.40363	0.39325	0.38121	0.37017	0.36050	0.35438	0.34952	0.34568	0.34370
3859821.13	0.39072	0.37777	0.36625	0.35762	0.34932	0.34040	0.33570	0.33300	0.33113
3859801.71	0.38154	0.36802	0.35593	0.34579	0.33778	0.33012	0.32461	0.32105	0.32019
3859782.29	0.36790	0.36004	0.34722	0.33549	0.32598	0.31947	0.31412	0.30978	0.30893
3859762.87	0.34817	0.34114	0.33837	0.32774	0.31487	0.30430	0.30334	0.29998	0.29829
3859743.45	0.33313	0.32811	0.32620	0.31597	0.30439	0.29340	0.29398	0.28987	0.28822
3859724.03	0.32139	0.31485	0.31294	0.30301	0.29373				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489584.66	489603.96	489623.26
3859957.07	0.36493	0.34589	0.32583
3859937.65	0.38494	0.37330	0.34535
3859918.23	0.37428	0.36909	0.35023

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  3859898.81 |       0.36838      0.36177      0.35339
  3859879.39 |       0.36032      0.35481      0.35110
  3859859.97 |       0.35345      0.34609      0.34484
  3859840.55 |       0.34346      0.33761      0.33851
  3859821.13 |       0.32995      0.33033      0.33021
  3859801.71 |       0.32002      0.31949      0.32124
  3859782.29 |       0.30966      0.30831      0.31175
  3859762.87 |       0.29814      0.29689      0.30349
  3859743.45 |       0.28727      0.28689      0.29399
  3859724.03 |       0.27775      0.27816      0.28421
  3859704.61 |       0.26872      0.26911      0.27421
  3859685.19 |       0.26015      0.25982      0.26405
  3859665.77 |       0.25134      0.25102      0.25443
  3859646.35 |       0.24298      0.24266      0.24532
  3859626.93 |       0.23628      0.23532      0.23667
  3859607.51 |       0.23047      0.22834      0.22847
  3859588.09 |       0.22264      0.22112      0.22067
  3859568.67 |       0.21522      0.21425      0.21273
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING3 ***
                                    INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                  L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                  L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                     *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     489260.34    489284.99    489309.64    489334.29    489358.94
489383.59    489408.24    489432.89    489457.54
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

  3859173.42 |       0.15263      0.14934      0.14840      0.14640      0.14323
```

0.14060 0.13773 0.13464 0.13129
3859151.85 | 0.14873 0.14705 0.14504 0.14257 0.13951
0.13698 0.13424 0.13128 0.12806
3859130.28 | 0.14547 0.14403 0.14155 0.13889 0.13593
0.13326 0.13089 0.12780 0.12495
3859108.71 | 0.14231 0.14062 0.13794 0.13511 0.13225
0.12993 0.12767 0.12446 0.12172
3859087.14 | 0.13903 0.13687 0.13447 0.13172 0.12895
0.12697 0.12433 0.12149 0.11862
3859065.57 | 0.13563 0.13348 0.13112 0.12822 0.12578
0.12365 0.12089 0.11862 0.11610
3859044.00 | 0.13213 0.12999 0.12768 0.12508 0.12251
0.12047 0.11782 0.11587 0.11366
3859022.43 | 0.12897 0.12685 0.12458 0.12206 0.11958
0.11762 0.11552 0.11343 0.11109
3859000.86 | 0.12549 0.12361 0.12160 0.11915 0.11675
0.11467 0.11266 0.11087 0.10861
3858979.29 | 0.12235 0.12048 0.11872 0.11634 0.11403
0.11183 0.11011 0.10840 0.10643
3858957.72 | 0.11971 0.11786 0.11574 0.11384 0.11162
0.10950 0.10765 0.10601 0.10431
3858936.15 | 0.11697 0.11514 0.11306 0.11103 0.10889
0.10685 0.10508 0.10332 0.10169
3858914.58 | 0.11431 0.11231 0.11028 0.10831 0.10645
0.10449 0.10280 0.10111 0.09935
3858893.01 | 0.11174 0.10958 0.10741 0.10569 0.10428
0.10241 0.10041 0.09897 0.09727
3858871.44 | 0.10944 0.10732 0.10501 0.10336 0.10163
0.10002 0.09828 0.09690 0.09509
3858849.87 | 0.10720 0.10494 0.10288 0.10110 0.09944
0.09772 0.09623 0.09473 0.09298
3858828.30 | 0.10469 0.10265 0.10064 0.09909 0.09733
0.09567 0.09407 0.09263 0.09111
3858806.73 | 0.10243 0.10042 0.09847 0.09698 0.09528
0.09352 0.09164 0.09060 0.08913
3858785.16 | 0.10007 0.09827 0.09654 0.09493 0.09347
0.09177 0.08996 0.08880 0.08722
3858763.59 | 0.09779 0.09602 0.09434 0.09279 0.09138
0.08992 0.08850 0.08705 0.08553
3858742.02 | 0.09525 0.09351 0.09188 0.09039 0.08904
0.08780 0.08644 0.08537 0.08389

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: LOADING3 ***
                                INCLUDING SOURCE(S):   L0000204   , L0000205
, L0000206   , L0000207   , L0000208   ,
                 L0000209   , L0000210   , L0000211   , L0000212   , L0000213
, L0000214   , L0000215   , L0000216   ,
                 L0000217   , L0000218   , L0000219   , L0000220   , L0000221
, L0000222   , L0000223   , L0000224   ,
                 L0000225   , L0000226   , L0000227   , L0000228   , L0000229
, L0000230   , L0000231   ,

                                 *** NETWORK ID: UCART2   ; NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489482.19   489506.84   489531.49   489556.14   489580.79
489605.44   489630.09   489654.74   489679.39
 -
- -

  3859173.42 | 0.12789   0.12474   0.12164   0.11985   0.11742
 0.11614   0.11556   0.11568   0.11671
  3859151.85 | 0.12504   0.12172   0.11870   0.11640   0.11450
 0.11371   0.11279   0.11283   0.11350
  3859130.28 | 0.12204   0.11883   0.11613   0.11361   0.11196
 0.11086   0.10988   0.10984   0.11016
  3859108.71 | 0.11916   0.11604   0.11341   0.11118   0.10927
 0.10763   0.10710   0.10648   0.10698
  3859087.14 | 0.11638   0.11407   0.11103   0.10883   0.10646
 0.10479   0.10419   0.10375   0.10417
  3859065.57 | 0.11394   0.11146   0.10874   0.10611   0.10399
 0.10206   0.10141   0.10090   0.10124
  3859044.00 | 0.11136   0.10874   0.10653   0.10373   0.10162
 0.09969   0.09898   0.09841   0.09843
  3859022.43 | 0.10865   0.10633   0.10396   0.10187   0.09934
 0.09741   0.09642   0.09579   0.09575
  3859000.86 | 0.10647   0.10380   0.10169   0.09964   0.09715
 0.09522   0.09419   0.09350   0.09317
  3858979.29 | 0.10415   0.10156   0.09931   0.09730   0.09525
 0.09332   0.09205   0.09110   0.09070
  3858957.72 | 0.10191   0.09960   0.09721   0.09484   0.09342
 0.09149   0.08978   0.08899   0.08854
  3858936.15 | 0.09956   0.09751   0.09518   0.09286   0.09106
 0.08934   0.08781   0.08698   0.08626
  3858914.58 | 0.09748   0.09567   0.09341   0.09095   0.08879
 0.08726   0.08592   0.08484   0.08428
  3858893.01 | 0.09547   0.09390   0.09151   0.08929   0.08698
 0.08508   0.08410   0.08299   0.08237

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING3 ***
                                   INCLUDING SOURCE(S):   L0000204   , L0000205
, L0000206   , L0000207   , L0000208   ,
                 L0000209   , L0000210   , L0000211   , L0000212   , L0000213
, L0000214   , L0000215   , L0000216   ,
                 L0000217   , L0000218   , L0000219   , L0000220   , L0000221
, L0000222   , L0000223   , L0000224   ,
                 L0000225   , L0000226   , L0000227   , L0000228   , L0000229
, L0000230   , L0000231   ,

                                *** NETWORK ID: UCART2   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489704.04   489728.69   489753.34
 -
- -

  3859173.42 | 0.11795   0.11951   0.12093
  3859151.85 | 0.11440   0.11591   0.11731
  3859130.28 | 0.11100   0.11246   0.11384
  3859108.71 | 0.10799   0.10889   0.11025
  3859087.14 | 0.10486   0.10596   0.10752
  3859065.57 | 0.10210   0.10313   0.10465

 3858855.12 | 0.10877   0.10617   0.10333   0.10116   0.09951
0.09798   0.09924   0.09904   0.09993
 3858830.19 | 0.10507   0.10280   0.09966   0.09689   0.09710
0.09663   0.09674   0.09719   0.09799
 3858805.26 | 0.10074   0.09734   0.09679   0.09522   0.09485
0.09427   0.09440   0.09498   0.09600
 3858780.33 | 0.09827   0.09624   0.09426   0.09275   0.09197
0.09191   0.09221   0.09288   0.09394
 3858755.40 | 0.09552   0.09365   0.09173   0.09045   0.08988
0.08971   0.09028   0.09103   0.09198
 3858730.47 | 0.09264   0.09079   0.08921   0.08845   0.08807
0.08806   0.08859   0.08940   0.09023
 3858705.54 | 0.08989   0.08836   0.08685   0.08629   0.08624
0.08651   0.08699   0.08771   0.08867
 3858680.61 | 0.08716   0.08595   0.08422   0.08385   0.08397
0.08464   0.08546   0.08621   0.08715
 3858655.68 | 0.08457   0.08368   0.08271   0.08224   0.08237
0.08287   0.08375   0.08452   0.08556
 3858630.75 | 0.08200   0.08128   0.08063   0.08047   0.08073
0.08132   0.08224   0.08300   0.08402
 3858605.82 | 0.07957   0.07902   0.07869   0.07881   0.07919
0.07984   0.08078   0.08142   0.08240
 3858580.89 | 0.07742   0.07704   0.07687   0.07725   0.07761
0.07832   0.07926   0.08000   0.08072
 3858555.96 | 0.07588   0.07542   0.07528   0.07566   0.07622
0.07686   0.07758   0.07841   0.07931
 3858531.03 | 0.07373   0.07355   0.07379   0.07427   0.07489
0.07567   0.07617   0.07717   0.07804
 3858506.10 | 0.07206   0.07203   0.07217   0.07274   0.07342
0.07421   0.07501   0.07576   0.07658
 3858481.17 | 0.07038   0.07049   0.07064   0.07140   0.07211
0.07290   0.07367   0.07439   0.07517
 3858456.24 | 0.06881   0.06894   0.06941   0.07022   0.07095
0.07163   0.07237   0.07305   0.07378
 3858431.31 | 0.06734   0.06759   0.06824   0.06908   0.06983
0.07059   0.07120   0.07164   0.07244
 3858406.38 | 0.06616   0.06642   0.06732   0.06809   0.06875
0.06939   0.07005   0.07046   0.07112

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                   INCLUDING SOURCE(S):   L0000204   , L0000205   , L0000206   , L0000207   , L0000208   ,

L0000209 , L0000210 , L0000211 , L0000212 , L0000213
, L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221
, L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229
, L0000230 , L0000231 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)								
	488853.04	488882.86	488912.68	488942.50	488972.32	489002.14	489031.96	489061.78	489091.60
3858904.98	0.10482	0.10664	0.10795	0.10993	0.11104	0.11264	0.11452	0.11633	0.11782
3858880.05	0.10291	0.10424	0.10554	0.10747	0.10889	0.11029	0.11211	0.11385	0.11526
3858855.12	0.10093	0.10209	0.10321	0.10509	0.10648	0.10785	0.10996	0.11162	0.11278
3858830.19	0.09902	0.10003	0.10097	0.10264	0.10367	0.10582	0.10771	0.10931	0.11006
3858805.26	0.09704	0.09818	0.09926	0.10043	0.10080	0.10354	0.10537	0.10675	0.10807
3858780.33	0.09471	0.09568	0.09671	0.09814	0.09928	0.10103	0.10297	0.10444	0.10567
3858755.40	0.09288	0.09368	0.09482	0.09623	0.09765	0.09906	0.10080	0.10221	0.10321
3858730.47	0.09138	0.09216	0.09328	0.09451	0.09592	0.09730	0.09899	0.10005	0.10098
3858705.54	0.08979	0.09068	0.09163	0.09271	0.09410	0.09575	0.09725	0.09839	0.09923
3858680.61	0.08786	0.08859	0.08977	0.09097	0.09233	0.09382	0.09541	0.09677	0.09766
3858655.68	0.08637	0.08707	0.08810	0.08928	0.09090	0.09222	0.09364	0.09466	0.09561
3858630.75	0.08479	0.08547	0.08660	0.08764	0.08924	0.09054	0.09191	0.09288	0.09362
3858605.82	0.08314	0.08391	0.08515	0.08618	0.08764	0.08892	0.09024	0.09128	0.09168
3858580.89	0.08154	0.08251	0.08374	0.08477	0.08596	0.08734	0.08863	0.08959	0.08993
3858555.96	0.08020	0.08104	0.08213	0.08328	0.08446	0.08570	0.08693	0.08784	0.08822
3858531.03	0.07890	0.07961	0.08057	0.08171	0.08300				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***

INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 , L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 , L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 , L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489121.42	489151.24	489181.06
3858904.98	0.11875	0.11910	0.11808
3858880.05	0.11609	0.11600	0.11525
3858855.12	0.11335	0.11317	0.11235
3858830.19	0.11055	0.11076	0.10954
3858805.26	0.10847	0.10796	0.10683
3858780.33	0.10614	0.10571	0.10437
3858755.40	0.10374	0.10323	0.10213
3858730.47	0.10141	0.10083	0.09967
3858705.54	0.09916	0.09850	0.09729

0.52156 0.51225 0.51019 0.51735
3861575.20 | 0.54553 0.53024 0.52433 0.53384 0.54429
0.54145 0.53440 0.53207 0.54508
3861550.06 | 0.57191 0.55460 0.55065 0.55818 0.56300
0.56020 0.55601 0.55867 0.57229
3861524.92 | 0.59826 0.58217 0.57771 0.58292 0.58594
0.58333 0.58063 0.58641 0.59926
3861499.78 | 0.62661 0.61050 0.60546 0.61155 0.61537
0.60889 0.60872 0.61727 0.63479
3861474.64 | 0.65717 0.64031 0.63537 0.64314 0.64864
0.63800 0.64010 0.65095 0.67672
3861449.50 | 0.68848 0.67254 0.66768 0.67480 0.67585
0.67282 0.67526 0.68774 0.70744
3861424.36 | 0.72410 0.70836 0.70175 0.70805 0.71195
0.70759 0.71472 0.73597 0.74572
3861399.22 | 0.76276 0.74537 0.73768 0.74677 0.75127
0.74750 0.75910 0.77551 0.78802
3861374.08 | 0.80374 0.78453 0.77868 0.78886 0.79225
0.79050 0.80630 0.81851 0.83487
3861348.94 | 0.84837 0.82828 0.82336 0.83253 0.83495
0.83697 0.85447 0.86843 0.88689
3861323.80 | 0.89711 0.87982 0.87464 0.88016 0.88416
0.88960 0.90320 0.92537 0.94475
3861298.66 | 0.95187 0.93527 0.93102 0.93361 0.94365
0.94817 0.96412 0.98926 1.01141
3861273.52 | 1.01518 0.99500 0.99031 0.99679 1.00174
1.01362 1.03454 1.06236 1.08216
3861248.38 | 1.09032 1.06428 1.05413 1.06395 1.06790
1.08405 1.11467 1.14197 1.15458
3861223.24 | 1.17619 1.14681 1.12642 1.13542 1.14202
1.16475 1.20296 1.22722 1.23370
3861198.10 | 1.27277 1.24155 1.21068 1.21345 1.22731
1.25584 1.29868 1.32162 1.32328
3861172.96 | 1.38190 1.34868 1.30099 1.30526 1.32398
1.35908 1.40616 1.42624 1.42346

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***

INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221

, L0000222   , L0000223   , L0000224   ,
                L0000225   , L0000226   , L0000227   , L0000228   , L0000229
, L0000230   , L0000231   ,

                                  *** NETWORK ID: UCART4   ; NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 490056.78   490131.30   490205.82   490280.34   490354.86
490429.38   490503.90   490578.42   490652.94
 -
- -

  3861675.76 | 0.45427   0.46206   0.46339   0.46529   0.46878
 0.47012   0.46972   0.46576   0.46226
  3861650.62 | 0.47382   0.48220   0.48626   0.49129   0.48858
 0.48935   0.48751   0.48623   0.48361
  3861625.48 | 0.49764   0.50748   0.51350   0.52042   0.51434
 0.51450   0.51034   0.50944   0.50510
  3861600.34 | 0.52733   0.53706   0.54362   0.54828   0.54869
 0.54715   0.54054   0.53192   0.52292
  3861575.20 | 0.55240   0.56051   0.57045   0.57288   0.57109
 0.56823   0.56123   0.55307   0.54266
  3861550.06 | 0.57984   0.59322   0.59867   0.60244   0.59649
 0.59547   0.58293   0.57379   0.56480
  3861524.92 | 0.61292   0.62331   0.62674   0.63189   0.62807
 0.61864   0.60636   0.59674   0.58989
  3861499.78 | 0.64675   0.65323   0.66129   0.66573   0.65932
 0.64390   0.63103   0.62208   0.61814
  3861474.64 | 0.67926   0.68790   0.70223   0.70206   0.68662
 0.67369   0.65885   0.65042   0.64920
  3861449.50 | 0.71496   0.73506   0.74126   0.73132   0.71416
 0.70203   0.69061   0.68391   0.68486
  3861424.36 | 0.75502   0.76757   0.77757   0.76424   0.74561
 0.73400   0.72246   0.72093   0.72455
  3861399.22 | 0.79757   0.80798   0.81135   0.79764   0.78000
 0.76821   0.75974   0.76192   0.76837
  3861374.08 | 0.84538   0.85370   0.85253   0.83439   0.81748
 0.80731   0.80354   0.80953   0.81803
  3861348.94 | 0.89725   0.90110   0.89869   0.87610   0.85977
 0.85184   0.85362   0.86235   0.87225
  3861323.80 | 0.95253   0.95188   0.94064   0.92328   0.90977
 0.90516   0.91063   0.92090   0.93061
  3861298.66 | 1.01245   1.01222   0.99104   0.97577   0.96453
 0.96728   0.97652   0.99049   0.99179
  3861273.52 | 1.07510   1.06719   1.05014   1.03522   1.02863
 1.04017   1.04912   1.05904   1.05849

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                 INCLUDING SOURCE(S):   L0000204   , L0000205 , L0000206   , L0000207   , L0000208   ,
                                    L0000209   , L0000210   , L0000211   , L0000212   , L0000213 , L0000214   , L0000215   , L0000216   ,
                                    L0000217   , L0000218   , L0000219   , L0000220   , L0000221 , L0000222   , L0000223   , L0000224   ,
                                    L0000225   , L0000226   , L0000227   , L0000228   , L0000229 , L0000230   , L0000231   ,

                                  *** NETWORK ID: UCART4   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 490727.46   490801.98   490876.50
 - - -

  3861693.54 | 0.45439   0.45280   0.45148   0.44785   0.44480
 0.44166   0.43914   0.43677   0.43435
  3861664.09 | 0.47133   0.46899   0.46573   0.46312   0.46016
 0.45713   0.45405   0.45069   0.44710
  3861634.64 | 0.48909   0.48600   0.48255   0.47955   0.47623
 0.47212   0.46974   0.46587   0.46176
  3861605.19 | 0.50673   0.50377   0.49991   0.49629   0.49318
 0.48899   0.48560   0.48170   0.47783
  3861575.74 | 0.52552   0.52189   0.51767   0.51399   0.50977
 0.50583   0.50218   0.49802   0.49389

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  3861546.29 |       0.54476      0.54108      0.53620      0.53193      0.52797
 0.52375      0.52010      0.51567      0.51181
  3861516.84 |       0.56519      0.56086      0.55624      0.55134      0.54679
 0.54199      0.53752      0.53337      0.52899
  3861487.39 |       0.58631      0.58164      0.57699      0.57176      0.56658
 0.56146      0.55669      0.55197      0.54730
  3861457.94 |       0.60855      0.60318      0.59787      0.59261      0.58741
 0.58194      0.57685      0.57211      0.56712
  3861428.49 |       0.63269      0.62623      0.62087      0.61523      0.60965
 0.60413      0.59867      0.59327      0.58762
  3861399.04 |       0.65781      0.65089      0.64512      0.63872      0.63307
 0.62715      0.62096      0.61485      0.60913
  3861369.59 |       0.68357      0.67652      0.67031      0.66343      0.65700
 0.65098      0.64435      0.63813      0.63198
  3861340.14 |       0.71071      0.70352      0.69642      0.68941      0.68247
 0.67561      0.66883      0.66281      0.65549
  3861310.69 |       0.73967      0.73149      0.72382      0.71623      0.70873
 0.70169      0.69435      0.68745      0.67990
  3861281.24 |       0.77050      0.76162      0.75286      0.74502      0.73685
 0.72878      0.72080      0.71290      0.70544
  3861251.79 |       0.80269      0.79301      0.78345      0.77486      0.76553
 0.75671      0.74799      0.73975      0.73120
  3861222.34 |       0.83606      0.82546      0.81500      0.80510      0.79532
 0.78523      0.77567      0.76662      0.75766
  3861192.89 |       0.86985      0.85869      0.84811      0.83720      0.82553
 0.81446      0.80354      0.79401      0.78456
  3861163.44 |       0.90464      0.89280      0.88204      0.86952      0.85626
 0.84367      0.83302      0.82163      0.81124
  3861133.99 |       0.93847      0.92742      0.91495      0.90119      0.88672
 0.87296      0.86213      0.84792      0.83611
  3861104.54 |       0.97294      0.95957      0.94534      0.93082      0.91608
 0.90112      0.88598      0.87252      0.85973
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 161
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING3 ***
                                   INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                  L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                  L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,
```

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	491888.31	491919.10	491949.89	491980.68	492011.47	492042.26	492073.05	492103.84	492134.63	
3861693.54	0.43100	0.42588	0.42320	0.42030	0.41741	0.41453	0.41083	0.40779	0.40498	
3861664.09	0.44420	0.44061	0.43749	0.43504	0.43216	0.42908	0.42347	0.42027	0.41751	
3861634.64	0.45816	0.45505	0.45219	0.44910	0.44626	0.44320	0.43931	0.43418	0.43039	
3861605.19	0.47423	0.47066	0.46735	0.46383	0.46034	0.45733	0.45345	0.44984	0.44539	
3861575.74	0.49057	0.48651	0.48275	0.47949	0.47555	0.47280	0.47005	0.46465	0.46153	
3861546.29	0.50771	0.50366	0.49964	0.49567	0.49269	0.48854	0.48374	0.47969	0.47614	
3861516.84	0.52545	0.52113	0.51660	0.51212	0.50919	0.50503	0.49947	0.49566	0.49141	
3861487.39	0.54323	0.53892	0.53465	0.52988	0.52569	0.52229	0.51642	0.51186	0.50760	
3861457.94	0.56218	0.55758	0.55274	0.54849	0.54375	0.54035	0.53388	0.52929	0.52474	
3861428.49	0.58205	0.57712	0.57225	0.56741	0.56235	0.55868	0.55264	0.54746	0.54234	
3861399.04	0.60348	0.59819	0.59295	0.58746	0.58203	0.57778	0.57161	0.56607	0.56086	
3861369.59	0.62621	0.61956	0.61454	0.60833	0.60249	0.59758	0.59070	0.58504	0.57998	
3861340.14	0.64992	0.64210	0.63632	0.62995	0.62365	0.61831	0.61152	0.60539	0.59932	
3861310.69	0.67348	0.66575	0.65878	0.65221	0.64570	0.63986	0.63252	0.62617	0.61928	
3861281.24	0.69770	0.69004	0.68245	0.67494	0.66849	0.66079	0.65317	0.64626	0.63910	
3861251.79	0.72237	0.71438	0.70646	0.69861	0.69117	0.68246	0.67451	0.66633	0.65855	
3861222.34	0.74802	0.73962	0.73093	0.72197	0.71311	0.70401	0.69571	0.68716	0.67839	
3861192.89	0.77481	0.76479	0.75526	0.74548	0.73583	0.72524	0.71655	0.70762	0.69848	
3861163.44	0.80055	0.78960	0.77881	0.76818	0.75808					

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***

INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	492165.42	492196.21	492227.00
3861693.54	0.40219	0.39923	0.39668
3861664.09	0.41456	0.41164	0.40894
3861634.64	0.42642	0.42461	0.42134
3861605.19	0.44056	0.43773	0.43429
3861575.74	0.45602	0.45167	0.44824
3861546.29	0.47195	0.46802	0.46370
3861516.84	0.48790	0.48351	0.47962
3861487.39	0.50362	0.49944	0.49530
3861457.94	0.52024	0.51579	0.51161
3861428.49	0.53778	0.53301	0.52829
3861399.04	0.55596	0.55084	0.54602
3861369.59	0.57442	0.56917	0.56397
3861340.14	0.59331	0.58762	0.58225
3861310.69	0.61275	0.60600	0.60016
3861281.24	0.63172	0.62471	0.61806

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 , L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 , L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 , L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488802.97	3861310.09	0.74967	488863.58	3861309.29	0.80107
488847.63	3861279.78	0.81706	488850.82	3861262.24	0.83978
488810.14	3861261.44	0.80292	488810.94	3861289.36	0.77403
488819.72	3861306.90	0.76330	488816.53	3861235.92	0.83584
488841.25	3861126.66	1.03921	488879.53	3861121.88	1.10061
488913.82	3861121.08	1.15984	488925.79	3861092.37	1.25898
488920.03	3861067.49	1.32698	488996.74	3861113.92	1.33655
488974.03	3861097.77	1.35730	488931.63		

3860976.64 1.61431
488935.67 3861034.68 1.45644 488959.90
3861061.43 1.44778
489165.81 3861208.80 1.22792 489317.74
3861109.28 1.70374
489385.87 3861014.75 2.34800 489372.24
3861112.69 1.67157
489420.79 3861106.73 1.67635 489436.12
3861037.74 2.10273
489488.07 3861036.89 2.10966 489473.59
3861110.99 1.63637
489431.01 3861167.20 1.39794 489662.66
3860915.95 3.92878
489644.78 3861076.07 1.84072 489659.26
3861099.06 1.69136
489735.91 3861020.71 2.38855 489700.14
3861029.23 2.27555
489708.65 3861062.44 1.98965 489779.34
3861099.06 1.77282
489835.95 3859138.59 0.11846 489885.95
3859138.59 0.11763
489935.95 3859138.59 0.11610 489985.95
3859138.59 0.11188
490035.95 3859138.59 0.10833 490085.95
3859138.59 0.10731
490135.95 3859138.59 0.10850 490185.95
3859138.59 0.10776
490235.95 3859138.59 0.10530 490285.95
3859138.59 0.10035
490335.95 3859138.59 0.09520 490385.95
3859138.59 0.09007
490435.95 3859138.59 0.09120 490485.95
3859138.59 0.08965
490535.95 3859138.59 0.08561 490585.95
3859138.59 0.08377
490635.95 3859138.59 0.08042 490685.95
3859138.59 0.07766
490735.95 3859138.59 0.07596 490785.95
3859138.59 0.07319
490835.95 3859138.59 0.06949 490885.95
3859138.59 0.06641
489835.95 3859188.59 0.12616 489885.95
3859188.59 0.12452
489935.95 3859188.59 0.12285 489985.95
3859188.59 0.11833
490035.95 3859188.59 0.11700 490085.95
3859188.59 0.11843
490135.95 3859188.59 0.11679 490185.95
3859188.59 0.11392
490235.95 3859188.59 0.10929 490285.95

3859188.59   0.10596
         490335.95   3859188.59   0.10438   490385.95
3859188.59   0.10248
         490435.95   3859188.59   0.10020   490485.95
3859188.59   0.09518
         490535.95   3859188.59   0.09283   490585.95
3859188.59   0.09154
         490635.95   3859188.59   0.08637   490685.95
3859188.59   0.07981
         490735.95   3859188.59   0.07521   490785.95
3859188.59   0.07211
         490835.95   3859188.59   0.07271   490885.95
3859188.59   0.07031
         489835.95   3859238.59   0.13344   489885.95
3859238.59   0.13251

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                 INCLUDING SOURCE(S):   L0000204   , L0000205 , L0000206   , L0000207   , L0000208   ,
                 L0000209   , L0000210   , L0000211   , L0000212   , L0000213 , L0000214   , L0000215   , L0000216   ,
                 L0000217   , L0000218   , L0000219   , L0000220   , L0000221 , L0000222   , L0000223   , L0000224   ,
                 L0000225   , L0000226   , L0000227   , L0000228   , L0000229 , L0000230   , L0000231   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                 ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

490235.95 3859238.59 0.11893 490285.95
3859238.59 0.11493
490335.95 3859238.59 0.11284 490385.95
3859238.59 0.11296
490435.95 3859238.59 0.11214 490485.95
3859238.59 0.11092
490535.95 3859238.59 0.10586 490585.95
3859238.59 0.10021
490635.95 3859238.59 0.09473 490685.95
3859238.59 0.09260
490735.95 3859238.59 0.08608 490785.95
3859238.59 0.08433
490835.95 3859238.59 0.08230 490885.95
3859238.59 0.07920
489835.95 3859288.59 0.14251 489885.95
3859288.59 0.14065
489935.95 3859288.59 0.13724 489985.95
3859288.59 0.13125
490035.95 3859288.59 0.13316 490085.95
3859288.59 0.13396
490135.95 3859288.59 0.13418 490185.95
3859288.59 0.13279
490235.95 3859288.59 0.12951 490285.95
3859288.59 0.12900
490335.95 3859288.59 0.12675 490385.95
3859288.59 0.12500
490435.95 3859288.59 0.12076 490485.95
3859288.59 0.12281
490535.95 3859288.59 0.12544 490585.95
3859288.59 0.11697
490635.95 3859288.59 0.11433 490685.95
3859288.59 0.10893
490735.95 3859288.59 0.10019 490785.95
3859288.59 0.09695
490835.95 3859288.59 0.09450 490885.95
3859288.59 0.09187
489835.95 3859338.59 0.15315 489885.95
3859338.59 0.15179
489935.95 3859338.59 0.14601 489985.95
3859338.59 0.14450
490035.95 3859338.59 0.14501 490085.95
3859338.59 0.14634
490135.95 3859338.59 0.14557 490185.95
3859338.59 0.14485
490235.95 3859338.59 0.14490 490285.95
3859338.59 0.14517
490335.95 3859338.59 0.14394 490385.95
3859338.59 0.14415
490435.95 3859338.59 0.14422 490485.95
3859338.59 0.14193

```
         490535.95    3859338.59        0.13972                       490585.95
3859338.59        0.13544
         490635.95    3859338.59        0.13142                       490685.95
3859338.59        0.12338
         490735.95    3859338.59        0.11554                       490785.95
3859338.59        0.11109
         490835.95    3859338.59        0.11146                       490885.95
3859338.59        0.10794
         489835.95    3859388.59        0.16259                       489885.95
3859388.59        0.16075
         489935.95    3859388.59        0.16065                       489985.95
3859388.59        0.15812
         490035.95    3859388.59        0.15887                       490085.95
3859388.59        0.16022
         490135.95    3859388.59        0.16027                       490185.95
3859388.59        0.16047
         490235.95    3859388.59        0.16178                       490285.95
3859388.59        0.16510
         490335.95    3859388.59        0.16588                       490385.95
3859388.59        0.16728
         490435.95    3859388.59        0.16812                       490485.95
3859388.59        0.16610
         490535.95    3859388.59        0.16157                       490585.95
3859388.59        0.15633
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 165
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING3 ***
                                   INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                  L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                  L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
```

Y-COORD (M)	CONC				
490635.95	3859388.59	0.14932	490685.95	3859388.59	0.13684
490735.95	3859388.59	0.12492	490785.95	3859388.59	0.12529
490835.95	3859388.59	0.13007	490885.95	3859388.59	0.12936
489835.95	3859438.59	0.17896	489885.95	3859438.59	0.17587
489935.95	3859438.59	0.17422	489985.95	3859438.59	0.17396
490035.95	3859438.59	0.17449	490085.95	3859438.59	0.17430
490135.95	3859438.59	0.17648	490185.95	3859438.59	0.17910
490235.95	3859438.59	0.18251	490285.95	3859438.59	0.18635
490335.95	3859438.59	0.18917	490385.95	3859438.59	0.19028
490435.95	3859438.59	0.18928	490485.95	3859438.59	0.18541
490535.95	3859438.59	0.18092	490585.95	3859438.59	0.17530
490635.95	3859438.59	0.16794	490685.95	3859438.59	0.16071
490735.95	3859438.59	0.15640	490785.95	3859438.59	0.15013
490835.95	3859438.59	0.15048	490885.95	3859438.59	0.15199
490085.95	3859488.59	0.19294	490135.95	3859488.59	0.19602
490185.95	3859488.59	0.20175	490235.95	3859488.59	0.20707
490285.95	3859488.59	0.21023	490335.95	3859488.59	0.21435
490385.95	3859488.59	0.21344	490435.95	3859488.59	0.21158
490485.95	3859488.59	0.20692	490535.95	3859488.59	0.20179
490585.95	3859488.59	0.19481	490635.95	3859488.59	0.18933
490685.95	3859488.59	0.18495	490735.95	3859488.59	0.17931
490785.95	3859488.59	0.17603	490835.95	3859488.59	0.17681
490885.95	3859488.59	0.17811	490085.95	3859538.59	0.21417
490135.95	3859538.59	0.21997	490185.95		

3859538.59   0.22723
         490235.95   3859538.59   0.23532   490285.95
3859538.59   0.23990
         490335.95   3859538.59   0.24009   490385.95
3859538.59   0.23840
         490435.95   3859538.59   0.23462   490485.95
3859538.59   0.22959
         490535.95   3859538.59   0.22439   490585.95
3859538.59   0.21852
         490635.95   3859538.59   0.21403   490685.95
3859538.59   0.21060
         490735.95   3859538.59   0.20637   490785.95
3859538.59   0.20577
         490835.95   3859538.59   0.20839   490885.95
3859538.59   0.20818
         490135.95   3859588.59   0.24971   490185.95
3859588.59   0.25541
         490235.95   3859588.59   0.26371   490285.95
3859588.59   0.26836
         490335.95   3859588.59   0.26686   490385.95
3859588.59   0.26549
         490435.95   3859588.59   0.26106   490485.95
3859588.59   0.25576
         490535.95   3859588.59   0.25042   490585.95
3859588.59   0.24649
         490635.95   3859588.59   0.24183   490685.95
3859588.59   0.24080
         490735.95   3859588.59   0.23976   490785.95
3859588.59   0.24144
         490835.95   3859588.59   0.24766   490885.95
3859588.59   0.25322
         490135.95   3859638.59   0.27029   490185.95
3859638.59   0.29407

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                   INCLUDING SOURCE(S):   L0000204   , L0000205 , L0000206   , L0000207   , L0000208   ,
                  L0000209   , L0000210   , L0000211   , L0000212   , L0000213 , L0000214   , L0000215   , L0000216   ,
                  L0000217   , L0000218   , L0000219   , L0000220   , L0000221 , L0000222   , L0000223   , L0000224   ,
                  L0000225   , L0000226   , L0000227   , L0000228   , L0000229

, L0000230   , L0000231   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490235.95	3859638.59	0.29356	490285.95	3859638.59	0.30030
490335.95	3859638.59	0.29649	490385.95	3859638.59	0.29164
490435.95	3859638.59	0.28920	490485.95	3859638.59	0.28455
490535.95	3859638.59	0.28128	490585.95	3859638.59	0.27997
490635.95	3859638.59	0.27795	490685.95	3859638.59	0.27918
490735.95	3859638.59	0.28244	490785.95	3859638.59	0.28941
490835.95	3859638.59	0.29976	490885.95	3859638.59	0.31044
490135.95	3859688.59	0.32000	490185.95	3859688.59	0.32704
490235.95	3859688.59	0.33036	490285.95	3859688.59	0.32209
490335.95	3859688.59	0.32349	490385.95	3859688.59	0.32854
490435.95	3859688.59	0.32024	490485.95	3859688.59	0.31869
490535.95	3859688.59	0.31740	490585.95	3859688.59	0.32157
490635.95	3859688.59	0.32478	490685.95	3859688.59	0.33000
490735.95	3859688.59	0.33784	490785.95	3859688.59	0.34812
490835.95	3859688.59	0.36026	490885.95	3859688.59	0.37664
490085.95	3859738.59	0.34489	490135.95	3859738.59	0.35828
490185.95	3859738.59	0.36688	490235.95	3859738.59	0.37365
490285.95	3859738.59	0.36515	490335.95	3859738.59	0.37093
490385.95	3859738.59	0.35565	490435.95	3859738.59	0.35968

```
         490485.95    3859738.59        0.36057                        490535.95
3859738.59        0.36998
         490585.95    3859738.59        0.37621                        490635.95
3859738.59        0.38551
         490685.95    3859738.59        0.39716                        490735.95
3859738.59        0.41048
         490785.95    3859738.59        0.42425                        490835.95
3859738.59        0.43480
         490885.95    3859738.59        0.44416                        490085.95
3859788.59        0.38779
         490135.95    3859788.59        0.40073                        490185.95
3859788.59        0.40674
         490235.95    3859788.59        0.41255                        490285.95
3859788.59        0.41636
         490335.95    3859788.59        0.42039                        490385.95
3859788.59        0.42756
         490435.95    3859788.59        0.42839                        490485.95
3859788.59        0.43294
         490535.95    3859788.59        0.43409                        490585.95
3859788.59        0.45371
         490635.95    3859788.59        0.46270                        490685.95
3859788.59        0.47680
         490735.95    3859788.59        0.49535                        490785.95
3859788.59        0.50719
         490835.95    3859788.59        0.51336                        490885.95
3859788.59        0.50920
         490085.95    3859838.59        0.44112                        490135.95
3859838.59        0.44958
         490185.95    3859838.59        0.45606                        490235.95
3859838.59        0.45968
         490285.95    3859838.59        0.46738                        490335.95
3859838.59        0.47981
         490385.95    3859838.59        0.49279                        490435.95
3859838.59        0.50511
         490485.95    3859838.59        0.52088                        490535.95
3859838.59        0.52922
         490585.95    3859838.59        0.54191                        490635.95
3859838.59        0.55975
         490685.95    3859838.59        0.57877                        490735.95
3859838.59        0.58695
         490785.95    3859838.59        0.58918                        490835.95
3859838.59        0.59662
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
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                                  PAGE 167
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 , L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 , L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 , L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490885.95	3859838.59	0.59946	490085.95	3859888.59	0.50217
490135.95	3859888.59	0.51276	490185.95	3859888.59	0.51560
490235.95	3859888.59	0.52426	490285.95	3859888.59	0.53995
490335.95	3859888.59	0.56166	490385.95	3859888.59	0.58108
490435.95	3859888.59	0.60230	490485.95	3859888.59	0.62432
490535.95	3859888.59	0.64098	490585.95	3859888.59	0.65075
490635.95	3859888.59	0.66664	490685.95	3859888.59	0.68043
490735.95	3859888.59	0.69336	490785.95	3859888.59	0.70579
490835.95	3859888.59	0.71097	490885.95	3859888.59	0.70435
490135.95	3859938.59	0.58546	490185.95	3859938.59	0.59657
490235.95	3859938.59	0.61330	490285.95	3859938.59	0.63992
490335.95	3859938.59	0.66658	490385.95	3859938.59	0.69262
490435.95	3859938.59	0.71968	490485.95	3859938.59	0.74585
490535.95	3859938.59	0.76873	490585.95	3859938.59	0.78228
490635.95	3859938.59	0.79976	490685.95		

3859938.59 0.79759
490735.95 3859938.59 0.80596 490785.95
3859938.59 0.81805
490835.95 3859938.59 0.82622 490885.95
3859938.59 0.84961
490135.95 3859988.59 0.68402 490185.95
3859988.59 0.70439
490235.95 3859988.59 0.73026 490285.95
3859988.59 0.76513
490335.95 3859988.59 0.80400 490385.95
3859988.59 0.83753
490435.95 3859988.59 0.86869 490485.95
3859988.59 0.89637
490535.95 3859988.59 0.91996 490585.95
3859988.59 0.93906
490635.95 3859988.59 0.94962 490685.95
3859988.59 0.94836
490735.95 3859988.59 0.95608 490785.95
3859988.59 0.96350
490835.95 3859988.59 0.96958 490885.95
3859988.59 0.98055
490135.95 3860038.59 0.82136 490185.95
3860038.59 0.86014
490235.95 3860038.59 0.90203 490285.95
3860038.59 0.94724
490335.95 3860038.59 0.98576 490385.95
3860038.59 1.02282
490435.95 3860038.59 1.05480 490485.95
3860038.59 1.08122
490535.95 3860038.59 1.10180 490585.95
3860038.59 1.11738
490635.95 3860038.59 1.12875 490685.95
3860038.59 1.13439
490735.95 3860038.59 1.12915 490785.95
3860038.59 1.12876
490835.95 3860038.59 1.12714 490885.95
3860038.59 1.12696
490135.95 3860088.59 1.02075 490185.95
3860088.59 1.06850
490235.95 3860088.59 1.12424 490285.95
3860088.59 1.17804
490335.95 3860088.59 1.22076 490385.95
3860088.59 1.25631
490435.95 3860088.59 1.28443 490485.95
3860088.59 1.30535
490535.95 3860088.59 1.31883 490585.95
3860088.59 1.32636
490635.95 3860088.59 1.32896 490685.95
3860088.59 1.32692
490735.95 3860088.59 1.32071 490785.95

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                 INCLUDING SOURCE(S):   L0000204   , L0000205 , L0000206   , L0000207   , L0000208   ,
                  L0000209   , L0000210   , L0000211   , L0000212   , L0000213 , L0000214   , L0000215   , L0000216   ,
                  L0000217   , L0000218   , L0000219   , L0000220   , L0000221 , L0000222   , L0000223   , L0000224   ,
                  L0000225   , L0000226   , L0000227   , L0000228   , L0000229 , L0000230   , L0000231   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

491035.95 3860138.59 1.38996 490135.95
3860188.59 1.70977
490185.95 3860188.59 1.77401 490235.95
3860188.59 1.82661
490285.95 3860188.59 1.86427 490335.95
3860188.59 1.88777
490385.95 3860188.59 1.89865 490435.95
3860188.59 1.89864
490485.95 3860188.59 1.88970 490535.95
3860188.59 1.87373
490585.95 3860188.59 1.85273 490635.95
3860188.59 1.82683
490685.95 3860188.59 1.79819 490735.95
3860188.59 1.76554
490785.95 3860188.59 1.73234 490835.95
3860188.59 1.69739
490885.95 3860188.59 1.65890 490935.95
3860188.59 1.61874
490985.95 3860188.59 1.58025 491035.95
3860188.59 1.54022
491085.95 3860188.59 1.49886 491135.95
3860188.59 1.46123
490135.95 3860238.59 2.25144 490185.95
3860238.59 2.30105
490235.95 3860238.59 2.33141 490285.95
3860238.59 2.34342
490335.95 3860238.59 2.33975 490385.95
3860238.59 2.32339
490435.95 3860238.59 2.29669 490485.95
3860238.59 2.26213
490535.95 3860238.59 2.22150 490585.95
3860238.59 2.17648
490635.95 3860238.59 2.12795 490685.95
3860238.59 2.07699
490735.95 3860238.59 2.02391 490785.95
3860238.59 1.96951
490835.95 3860238.59 1.91416 490885.95
3860238.59 1.85921
490935.95 3860238.59 1.80438 490985.95
3860238.59 1.75510
491035.95 3860238.59 1.70050 491085.95
3860238.59 1.64456
491135.95 3860238.59 1.59330 490135.95
3860288.59 2.97035
490185.95 3860288.59 2.97980 490235.95
3860288.59 2.96387
490285.95 3860288.59 2.93237 490335.95
3860288.59 2.88599
490385.95 3860288.59 2.82776 490435.95
3860288.59 2.76168

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490485.95	3860288.59	2.68951	490535.95	3860288.59	2.61253
490585.95	3860288.59	2.53275	490635.95	3860288.59	2.45279
490685.95	3860288.59	2.37336	490735.95	3860288.59	2.29388
490785.95	3860288.59	2.21603	490835.95	3860288.59	2.13816
490885.95	3860288.59	2.06390	490935.95	3860288.59	1.98961
490985.95	3860288.59	1.92319	491035.95	3860288.59	1.85481
491085.95	3860288.59	1.78753	490135.95	3860338.59	3.89906
490185.95	3860338.59	3.83116	490235.95	3860338.59	3.74012
490285.95	3860338.59	3.63803	490335.95	3860338.59	3.52492
490385.95	3860338.59	3.40472	490435.95	3860338.59	3.28087
490485.95	3860338.59	3.15557	490535.95		

3860338.59 3.03160
490585.95 3860338.59 2.90805 490635.95
3860338.59 2.78883
490685.95 3860338.59 2.67434 490735.95
3860338.59 2.56429
490785.95 3860338.59 2.46246 490835.95
3860338.59 2.35985
490885.95 3860338.59 2.26291 490935.95
3860338.59 2.16979
490985.95 3860338.59 2.08080 491035.95
3860338.59 1.99848
491085.95 3860338.59 1.91977 490135.95
3860388.59 5.05606
490185.95 3860388.59 4.85824 490235.95
3860388.59 4.64934
490285.95 3860388.59 4.43812 490335.95
3860388.59 4.22812
490385.95 3860388.59 4.02237 490435.95
3860388.59 3.82358
490485.95 3860388.59 3.63389 490535.95
3860388.59 3.45243
490585.95 3860388.59 3.28097 490635.95
3860388.59 3.11784
490685.95 3860388.59 2.96684 490735.95
3860388.59 2.82271
490785.95 3860388.59 2.68912 490835.95
3860388.59 2.56577
490135.95 3860438.59 6.39085 490185.95
3860438.59 5.99622
490235.95 3860438.59 5.62054 490285.95
3860438.59 5.26724
490335.95 3860438.59 4.93660 490385.95
3860438.59 4.63059
490435.95 3860438.59 4.34686 490485.95
3860438.59 4.08457
490535.95 3860438.59 3.84407 490585.95
3860438.59 3.62049
490635.95 3860438.59 3.41378 490685.95
3860438.59 3.22501
490735.95 3860438.59 3.05249 490785.95
3860438.59 2.89019
490835.95 3860438.59 2.74482 490135.95
3860488.59 7.74244
490185.95 3860488.59 7.10481 490235.95
3860488.59 6.53298
490285.95 3860488.59 6.02442 490335.95
3860488.59 5.56637
490385.95 3860488.59 5.15857 490435.95
3860488.59 4.79593
490485.95 3860488.59 4.46359 490535.95

3860488.59   4.16230
         490585.95   3860488.59   3.88971   490635.95
3860488.59   3.64648
         490685.95   3860488.59   3.42123   490735.95
3860488.59   3.22095
         490785.95   3860488.59   3.03739   490135.95
3860538.59   8.83145
         490185.95   3860538.59   7.96637   490235.95
3860538.59   7.21222
         490285.95   3860538.59   6.56421   490335.95
3860538.59   6.00487
         490385.95   3860538.59   5.51880   490435.95
3860538.59   5.08845
         490485.95   3860538.59   4.70854   490535.95
3860538.59   4.37802
         490585.95   3860538.59   4.05814   490635.95
3860538.59   3.78184
         490685.95   3860538.59   3.53778   490735.95
3860538.59   3.31526

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING3 ***
                                  INCLUDING SOURCE(S):   L0000204   , L0000205
, L0000206   , L0000207   , L0000208   ,
                 L0000209   , L0000210   , L0000211   , L0000212   , L0000213
, L0000214   , L0000215   , L0000216   ,
                 L0000217   , L0000218   , L0000219   , L0000220   , L0000221
, L0000222   , L0000223   , L0000224   ,
                 L0000225   , L0000226   , L0000227   , L0000228   , L0000229
, L0000230   , L0000231   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         490785.95   3860538.59   3.11651   490135.95
3860588.59   9.34461

490185.95 3860588.59 8.28408 490235.95
3860588.59 7.47398
490285.95 3860588.59 6.77140 490335.95
3860588.59 6.15953
490385.95 3860588.59 5.63012 490435.95
3860588.59 5.18979
490485.95 3860588.59 4.79186 490535.95
3860588.59 4.43343
490585.95 3860588.59 4.09032 490635.95
3860588.59 3.80915
490685.95 3860588.59 3.55548 490735.95
3860588.59 3.32840
490785.95 3860588.59 3.12135 490135.95
3860638.59 9.18045
490185.95 3860638.59 8.19177 490235.95
3860638.59 7.33691
490285.95 3860638.59 6.62855 490335.95
3860638.59 6.03919
490385.95 3860638.59 5.52334 490435.95
3860638.59 5.06914
490485.95 3860638.59 4.67627 490535.95
3860638.59 4.33787
490585.95 3860638.59 4.02134 490635.95
3860638.59 3.74641
490685.95 3860638.59 3.49718 490735.95
3860638.59 3.26825
490785.95 3860638.59 3.06857 490135.95
3860688.59 8.52585
490185.95 3860688.59 7.67010 490235.95
3860688.59 6.93025
490285.95 3860688.59 6.24419 490335.95
3860688.59 5.72224
490385.95 3860688.59 5.25839 490435.95
3860688.59 4.84061
490485.95 3860688.59 4.46561 490535.95
3860688.59 4.14598
490585.95 3860688.59 3.86140 490635.95
3860688.59 3.60718
490685.95 3860688.59 3.38083 490735.95
3860688.59 3.16917
490785.95 3860688.59 2.98407 490135.95
3860738.59 7.53494
490185.95 3860738.59 6.82848 490235.95
3860738.59 6.23732
490285.95 3860738.59 5.72802 490335.95
3860738.59 5.27759
490385.95 3860738.59 4.88196 490435.95
3860738.59 4.54916
490485.95 3860738.59 4.21643 490535.95
3860738.59 3.90262

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         490585.95    3860738.59        3.64128                      490635.95
3860738.59        3.41185
         490685.95    3860738.59        3.21220                      490735.95
3860738.59        3.02913
         490785.95    3860738.59        2.86432                      490135.95
3860788.59        6.34785
         490185.95    3860788.59        5.88891                      490235.95
3860788.59        5.46488
         490285.95    3860788.59        5.08174                      490335.95
3860788.59        4.72749
         490385.95    3860788.59        4.42781                      490435.95
3860788.59        4.13861
         490485.95    3860788.59        3.88672                      490535.95
3860788.59        3.63455
         490585.95    3860788.59        3.39078                      490635.95
3860788.59        3.18681
         490685.95    3860788.59        3.00804                      490735.95
3860788.59        2.84989
         490785.95    3860788.59        2.69498                      489985.95
3860838.59        6.09612
         490035.95    3860838.59        5.81356                      490085.95
3860838.59        5.53182
         490135.95    3860838.59        5.24602                      490185.95
3860838.59        4.93831
         490235.95    3860838.59        4.65126                      490285.95
3860838.59        4.39279
         490335.95    3860838.59        4.13672                      490385.95
3860838.59        3.90283
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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                                   PAGE 171
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING3 ***
                                   INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                  L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                  L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***
```

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490435.95	3860838.59	3.69608	490485.95	3860838.59	3.49662
490535.95	3860838.59	3.30333	490585.95	3860838.59	3.11536
490635.95	3860838.59	2.94169	490685.95	3860838.59	2.78973
490735.95	3860838.59	2.65448	490785.95	3860838.59	2.52461
490835.95	3860838.59	2.40046	489835.95	3860888.59	4.78595
489885.95	3860888.59	4.79647	489935.95	3860888.59	4.77466
489985.95	3860888.59	4.71113	490035.95	3860888.59	4.59588
490085.95	3860888.59	4.45445	490135.95	3860888.59	4.27891
490185.95	3860888.59	4.08666	490235.95	3860888.59	3.90386
490285.95	3860888.59	3.72464	490335.95	3860888.59	3.54782
490385.95	3860888.59	3.39140	490435.95	3860888.59	3.24362
490485.95	3860888.59	3.09471	490535.95	3860888.59	2.94952
490585.95	3860888.59	2.80772	490635.95	3860888.59	2.67152
490685.95	3860888.59	2.54784	490735.95	3860888.59	2.43328
490785.95	3860888.59	2.32200	490835.95	3860888.59	2.22284
490885.95	3860888.59	2.13377	490935.95	3860888.59	2.04331
489835.95	3860938.59	3.56072	489885.95	3860938.59	3.56701
489935.95	3860938.59	3.59256	489985.95	3860938.59	3.60975
490035.95	3860938.59	3.59824	490085.95	3860938.59	3.55117
490135.95	3860938.59	3.45752	490185.95	3860938.59	3.36458
490235.95	3860938.59	3.25676	490285.95	3860938.59	3.14612
490335.95	3860938.59	3.02319	490385.95		

3860938.59   2.91763
         490435.95   3860938.59   2.81282   490485.95
3860938.59   2.70375
         490535.95   3860938.59   2.59961   490585.95
3860938.59   2.49317
         490635.95   3860938.59   2.39109   490685.95
3860938.59   2.29559
         490735.95   3860938.59   2.20447   490785.95
3860938.59   2.11816
         490835.95   3860938.59   2.04223   490885.95
3860938.59   1.97063
         490935.95   3860938.59   1.89526   489835.95
3860988.59   2.79424
         489885.95   3860988.59   2.78886   489935.95
3860988.59   2.78946
         489985.95   3860988.59   2.80296   490035.95
3860988.59   2.81803
         490085.95   3860988.59   2.82892   490135.95
3860988.59   2.81338
         490185.95   3860988.59   2.78638   490235.95
3860988.59   2.72167
         490285.95   3860988.59   2.65127   490335.95
3860988.59   2.57812
         490385.95   3860988.59   2.50282   490435.95
3860988.59   2.43541
         490485.95   3860988.59   2.35586   490535.95
3860988.59   2.27389
         490585.95   3860988.59   2.19600   490635.95
3860988.59   2.12330
         490685.95   3860988.59   2.04861   490735.95
3860988.59   1.97604
         490785.95   3860988.59   1.91026   490835.95
3860988.59   1.84994
         490885.95   3860988.59   1.79419   490935.95
3860988.59   1.73376
         489835.95   3861038.59   2.27089   489885.95
3861038.59   2.26760

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                  INCLUDING SOURCE(S):   L0000204   , L0000205 , L0000206   , L0000207   , L0000208   ,
                 L0000209   , L0000210   , L0000211   , L0000212   , L0000213

```
, L0000214    , L0000215    , L0000216    ,
                L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         489935.95    3861038.59        2.24874                       489985.95
3861038.59        2.23922
         490035.95    3861038.59        2.24398                       490085.95
3861038.59        2.25772
         490135.95    3861038.59        2.27188                       490185.95
3861038.59        2.27599
         490235.95    3861038.59        2.26856                       490285.95
3861038.59        2.23628
         490335.95    3861038.59        2.19478                       490385.95
3861038.59        2.15685
         490435.95    3861038.59        2.11238                       490485.95
3861038.59        2.05689
         490535.95    3861038.59        1.99683                       490585.95
3861038.59        1.93634
         490635.95    3861038.59        1.87643                       490685.95
3861038.59        1.81901
         490735.95    3861038.59        1.76444                       490785.95
3861038.59        1.71379
         490835.95    3861038.59        1.66594                       490885.95
3861038.59        1.61893
         490935.95    3861038.59        1.57406                       489835.95
3861088.59        1.88456
         489885.95    3861088.59        1.88414                       489935.95
3861088.59        1.87217
         489985.95    3861088.59        1.85466                       490035.95
3861088.59        1.84265
         490085.95    3861088.59        1.84395                       490135.95
3861088.59        1.85788
         490185.95    3861088.59        1.87954                       490235.95
3861088.59        1.88392
         490285.95    3861088.59        1.88227                       490335.95
3861088.59        1.86843
         490385.95    3861088.59        1.85499                       490435.95
3861088.59        1.82752
```

```
         490485.95    3861088.59        1.79331                      490535.95
3861088.59        1.75786
         490585.95    3861088.59        1.71222                      490635.95
3861088.59        1.66313
         490685.95    3861088.59        1.61813                      490735.95
3861088.59        1.57649
         490785.95    3861088.59        1.53585                      490835.95
3861088.59        1.49674
         490885.95    3861088.59        1.45910                      490935.95
3861088.59        1.42372
         489020.79    3862564.85        0.18388                      489043.15
3862350.21        0.22148
         489072.96    3862287.60        0.23502                      488980.55
3862078.92        0.28769
         489037.19    3862822.72        0.14921                      489120.66
3863016.49        0.12768
         489037.19    3863350.37        0.10383

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 173
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                                   INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     489237.26    489256.56    489275.86    489295.16    489314.46
489333.76    489353.06    489372.36    489391.66
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

  3859957.07 |       0.90172      0.88300      0.88291      0.88017      0.86513
```

0.84879 0.83617 0.81535 0.78621
3859937.65 | 0.85391 0.83582 0.83474 0.83014 0.82002
0.81030 0.79815 0.78140 0.75668
3859918.23 | 0.80115 0.78679 0.78660 0.77602 0.77401
0.76734 0.75607 0.73798 0.71452
3859898.81 | 0.75688 0.74868 0.74662 0.74477 0.74061
0.73726 0.72677 0.70669 0.68681
3859879.39 | 0.72063 0.71549 0.71982 0.72025 0.71508
0.71188 0.70038 0.68365 0.66238
3859859.97 | 0.68629 0.67974 0.68280 0.68344 0.67867
0.67554 0.66610 0.65395 0.63394
3859840.55 | 0.65147 0.64578 0.64768 0.64613 0.64520
0.64210 0.63300 0.62468 0.60726
3859821.13 | 0.61639 0.61351 0.61084 0.60941 0.60976
0.60667 0.60109 0.59114 0.58082
3859801.71 | 0.58323 0.58067 0.58267 0.58012 0.58153
0.58267 0.57288 0.56619 0.55747
3859782.29 | 0.55581 0.55359 0.55664 0.54999 0.55421
0.55617 0.54670 0.54012 0.53165
3859762.87 | 0.53153 0.52961 0.52965 0.52617 0.52605
0.52395 0.51969 0.50555 0.49740
3859743.45 | 0.50905 0.50736 0.50638 0.50398 0.50261
0.50038 0.49353 0.48360 0.47452
3859724.03 | 0.48734 0.48665 0.48567 0.48327 0.48176
0.47694 0.47167 0.46553 0.45542
3859704.61 | 0.46556 0.46402 0.46631 0.46388 0.46319
0.46075 0.45551 0.44723 0.43875
3859685.19 | 0.44682 0.44613 0.44902 0.44883 0.44791
0.44446 0.43713 0.42817 0.41878
3859665.77 | 0.43006 0.43014 0.43408 0.43524 0.43335
0.42784 0.41988 0.40825 0.39822
3859646.35 | 0.41363 0.41358 0.41440 0.41538 0.41140
0.40791 0.40092 0.39248 0.38284
3859626.93 | 0.39690 0.39803 0.39464 0.39671 0.39268
0.38803 0.38392 0.37765 0.36751
3859607.51 | 0.38244 0.38216 0.38069 0.37986 0.37657
0.37308 0.36900 0.36188 0.35311
3859588.09 | 0.36632 0.36585 0.36494 0.36397 0.36065
0.35717 0.35242 0.34648 0.33878
3859568.67 | 0.35174 0.34928 0.35006 0.34897 0.34597
0.34248 0.33853 0.33199 0.32529

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: LOADING4 ***
                                INCLUDING SOURCE(S):   L0000232   , L0000233
, L0000234   , L0000235   , L0000236   ,
                 L0000237   , L0000238   , L0000239   , L0000240   , L0000241
, L0000242   , L0000243   , L0000244   ,
                 L0000245   , L0000246   , L0000247   , L0000248   , L0000249
, L0000250   , L0000251   , L0000252   ,
                 L0000253   , L0000254   , L0000255   , L0000256   , L0000257
, L0000258   , L0000259   ,

                                 *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489410.96   489430.26   489449.56   489468.86   489488.16
489507.46   489526.76   489546.06   489565.36
 -
- -

  3859957.07 | 0.75514   0.72601   0.68840   0.66003   0.62307
 0.59632   0.58655   0.57980   0.56910
  3859937.65 | 0.72987   0.70477   0.67466   0.65324   0.63440
 0.61856   0.61501   0.60815   0.59826
  3859918.23 | 0.68661   0.65547   0.63421   0.62125   0.60751
 0.59548   0.59206   0.58341   0.57044
  3859898.81 | 0.66041   0.63316   0.60629   0.58737   0.57676
 0.57214   0.56897   0.55664   0.55029
  3859879.39 | 0.64360   0.62194   0.58443   0.55635   0.54845
 0.55416   0.54922   0.53381   0.52981
  3859859.97 | 0.61578   0.59891   0.57501   0.55241   0.54100
 0.53868   0.53224   0.51979   0.51781
  3859840.55 | 0.59000   0.57371   0.55634   0.54025   0.52592
 0.51679   0.50910   0.50263   0.49906
  3859821.13 | 0.56585   0.54550   0.52891   0.51684   0.50491
 0.49151   0.48435   0.47994   0.47662
  3859801.71 | 0.54455   0.52850   0.50957   0.49507   0.48376
 0.47262   0.46441   0.45883   0.45723
  3859782.29 | 0.52203   0.50933   0.49453   0.47618   0.46262
 0.45349   0.44575   0.43915   0.43768
  3859762.87 | 0.49072   0.48107   0.47613   0.46136   0.44296
 0.42765   0.42696   0.42208   0.41943
  3859743.45 | 0.46545   0.45729   0.45506   0.44092   0.42463
 0.40887   0.41065   0.40481   0.40234
  3859724.03 | 0.44558   0.43658   0.43290   0.42079   0.40637
 0.39254   0.39416   0.38863   0.38517
  3859704.61 | 0.43036   0.41943   0.41477   0.40422   0.38935
 0.37727   0.37871   0.37346   0.37020

```
  3859685.19 |       0.41068      0.40237      0.39687      0.38670      0.37346
 0.36295      0.36422      0.35921      0.35612
  3859665.77 |       0.39039      0.38234      0.37792      0.36900      0.35861
 0.34952      0.35061      0.34482      0.34287
  3859646.35 |       0.37346      0.36571      0.36116      0.35376      0.34376
 0.33595      0.33782      0.33226      0.32944
  3859626.93 |       0.35850      0.35016      0.34664      0.33951      0.33167
 0.32593      0.32489      0.32131      0.31859
  3859607.51 |       0.34529      0.33814      0.33304      0.32785      0.32199
 0.31724      0.31443      0.31093      0.30914
  3859588.09 |       0.33125      0.32437      0.31782      0.31199      0.30711
 0.30329      0.29971      0.29709      0.29695
  3859568.67 |       0.31881      0.31066      0.30357      0.29714      0.29239
 0.28943      0.28513      0.28334      0.28393
1 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 175
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                                 INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                               *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     489584.66    489603.96    489623.26
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3859957.07 |       0.55277      0.52224      0.49125
  3859937.65 |       0.58277      0.56387      0.51742
  3859918.23 |       0.56072      0.55267      0.52137
  3859898.81 |       0.54787      0.53685      0.52359
  3859879.39 |       0.53135      0.52253      0.51657
  3859859.97 |       0.51725      0.50533      0.50336
```

```
 3859130.28 |       0.17534      0.17411      0.17132      0.16808      0.16424
0.16063      0.15735      0.15316      0.14933
 3859108.71 |       0.17118      0.16959      0.16651      0.16303      0.15932
0.15616      0.15304      0.14871      0.14504
 3859087.14 |       0.16687      0.16465      0.16191      0.15851      0.15491
0.15219      0.14860      0.14475      0.14094
 3859065.57 |       0.16243      0.16020      0.15749      0.15387      0.15069
0.14779      0.14405      0.14097      0.13760
 3859044.00 |       0.15788      0.15564      0.15296      0.14972      0.14636
0.14358      0.14000      0.13734      0.13439
 3859022.43 |       0.15378      0.15154      0.14889      0.14573      0.14249
0.13982      0.13695      0.13413      0.13102
 3859000.86 |       0.14931      0.14732      0.14498      0.14191      0.13877
0.13595      0.13320      0.13077      0.12779
 3858979.29 |       0.14527      0.14327      0.14122      0.13823      0.13520
0.13223      0.12987      0.12755      0.12494
 3858957.72 |       0.14188      0.13988      0.13736      0.13495      0.13203
0.12918      0.12667      0.12445      0.12220
 3858936.15 |       0.13836      0.13637      0.13388      0.13130      0.12848
0.12574      0.12335      0.12098      0.11883
 3858914.58 |       0.13497      0.13274      0.13030      0.12779      0.12531
0.12269      0.12039      0.11813      0.11583
 3858893.01 |       0.13169      0.12925      0.12662      0.12441      0.12250
0.11998      0.11732      0.11539      0.11317
 3858871.44 |       0.12875      0.12634      0.12353      0.12139      0.11910
0.11691      0.11459      0.11274      0.11039
 3858849.87 |       0.12591      0.12331      0.12078      0.11849      0.11628
0.11396      0.11196      0.10997      0.10771
 3858828.30 |       0.12274      0.12038      0.11791      0.11591      0.11356
0.11134      0.10921      0.10730      0.10534
 3858806.73 |       0.11988      0.11755      0.11514      0.11320      0.11094
0.10860      0.10613      0.10473      0.10284
 3858785.16 |       0.11692      0.11482      0.11268      0.11059      0.10863
0.10638      0.10400      0.10246      0.10044
 3858763.59 |       0.11405      0.11199      0.10989      0.10787      0.10598
0.10402      0.10214      0.10026      0.09831
 3858742.02 |       0.11089      0.10885      0.10680      0.10485      0.10304
0.10136      0.09956      0.09814      0.09626
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                         ***        01:16:45

                                    PAGE 177
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                                    INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
```

```
                 L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                 L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                 L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     489482.19    489506.84    489531.49    489556.14    489580.79
489605.44    489630.09    489654.74    489679.39
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3859173.42 |       0.15340      0.14945      0.14579      0.14406      0.14165
 0.14080      0.14081      0.14159      0.14330
  3859151.85 |       0.14955      0.14538      0.14180      0.13937      0.13762
 0.13737      0.13695      0.13763      0.13892
  3859130.28 |       0.14554      0.14150      0.13832      0.13556      0.13411
 0.13344      0.13294      0.13352      0.13440
  3859108.71 |       0.14170      0.13778      0.13467      0.13225      0.13044
 0.12906      0.12911      0.12897      0.13010
  3859087.14 |       0.13802      0.13513      0.13148      0.12908      0.12662
 0.12519      0.12515      0.12525      0.12628
  3859065.57 |       0.13479      0.13169      0.12842      0.12545      0.12329
 0.12151      0.12138      0.12140      0.12234
  3859044.00 |       0.13140      0.12811      0.12548      0.12227      0.12010
 0.11829      0.11807      0.11801      0.11858
  3859022.43 |       0.12787      0.12495      0.12211      0.11977      0.11705
 0.11521      0.11463      0.11448      0.11498
  3859000.86 |       0.12502      0.12166      0.11914      0.11683      0.11413
 0.11226      0.11162      0.11139      0.11154
  3858979.29 |       0.12201      0.11876      0.11604      0.11376      0.11160
 0.10971      0.10873      0.10817      0.10825
  3858957.72 |       0.11912      0.11622      0.11331      0.11056      0.10916
 0.10726      0.10572      0.10535      0.10535
  3858936.15 |       0.11610      0.11352      0.11069      0.10799      0.10609
 0.10441      0.10309      0.10265      0.10233
  3858914.58 |       0.11343      0.11116      0.10841      0.10552      0.10314
 0.10169      0.10056      0.09982      0.09968
  3858893.01 |       0.11085      0.10889      0.10597      0.10337      0.10079
 0.09885      0.09815      0.09734      0.09714
  3858871.44 |       0.10815      0.10581      0.10319      0.10086      0.09853
 0.09635      0.09560      0.09474      0.09470
  3858849.87 |       0.10555      0.10328      0.10094      0.09866      0.09635
```

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
                                 INCLUDING SOURCE(S):   L0000232   , L0000233 , L0000234   , L0000235   , L0000236   ,
                 L0000237   , L0000238   , L0000239   , L0000240   , L0000241 , L0000242   , L0000243   , L0000244   ,
                 L0000245   , L0000246   , L0000247   , L0000248   , L0000249 , L0000250   , L0000251   , L0000252   ,
                 L0000253   , L0000254   , L0000255   , L0000256   , L0000257 , L0000258   , L0000259   ,

                                  *** NETWORK ID: UCART2   ; NETWORK TYPE: GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489704.04   489728.69   489753.34
 - - -

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 0.11517      0.11369      0.11277      0.11260
  3858805.26 |       0.12354      0.11972      0.11849      0.11563      0.11380
 0.11155      0.11016      0.10953      0.10979
  3858780.33 |       0.12032      0.11780      0.11483      0.11194      0.10958
 0.10797      0.10688      0.10651      0.10697
  3858755.40 |       0.11672      0.11421      0.11116      0.10845      0.10633
 0.10464      0.10400      0.10387      0.10433
  3858730.47 |       0.11294      0.11029      0.10751      0.10534      0.10347
 0.10205      0.10148      0.10156      0.10200
  3858705.54 |       0.10929      0.10685      0.10405      0.10207      0.10063
 0.09964      0.09914      0.09924      0.09996
  3858680.61 |       0.10562      0.10341      0.10029      0.09851      0.09731
 0.09690      0.09694      0.09721      0.09803
  3858655.68 |       0.10209      0.10013      0.09783      0.09597      0.09484
 0.09434      0.09458      0.09499      0.09603
  3858630.75 |       0.09857      0.09671      0.09475      0.09328      0.09239
 0.09211      0.09251      0.09304      0.09413
  3858605.82 |       0.09520      0.09347      0.09186      0.09077      0.09010
 0.09001      0.09056      0.09104      0.09216
  3858580.89 |       0.09212      0.09055      0.08914      0.08842      0.08782
 0.08792      0.08858      0.08928      0.09015
  3858555.96 |       0.08974      0.08808      0.08674      0.08608      0.08583
 0.08595      0.08645      0.08734      0.08847
  3858531.03 |       0.08669      0.08535      0.08449      0.08404      0.08397
 0.08435      0.08469      0.08585      0.08697
  3858506.10 |       0.08420      0.08304      0.08212      0.08186      0.08196
 0.08247      0.08325      0.08418      0.08527
  3858481.17 |       0.08172      0.08076      0.07991      0.07995      0.08020
 0.08081      0.08164      0.08257      0.08362
  3858456.24 |       0.07939      0.07849      0.07809      0.07829      0.07867
 0.07923      0.08009      0.08101      0.08202
  3858431.31 |       0.07720      0.07649      0.07639      0.07674      0.07722
 0.07796      0.07872      0.07939      0.08047
  3858406.38 |       0.07539      0.07474      0.07503      0.07539      0.07584
 0.07651      0.07738      0.07803      0.07895
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 180
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                                  INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
```

, L0000250   , L0000251   , L0000252   ,
                L0000253   , L0000254   , L0000255   , L0000256   , L0000257
, L0000258   , L0000259   ,

                                *** NETWORK ID: UCART3   ; NETWORK TYPE:
GRIDCART ***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

    Y-COORD | X-COORD (METERS)
    (METERS) | 488853.04   488882.86   488912.68   488942.50   488972.32
489002.14   489031.96   489061.78   489091.60
 -
- -

  3858904.98 | 0.12127   0.12266   0.12376   0.12590   0.12709
 0.12892   0.13113   0.13338   0.13547
  3858880.05 | 0.11850   0.11943   0.12064   0.12279   0.12438
 0.12597   0.12812   0.13029   0.13227
  3858855.12 | 0.11571   0.11658   0.11767   0.11981   0.12139
 0.12294   0.12542   0.12751   0.12918
  3858830.19 | 0.11309   0.11389   0.11485   0.11677   0.11793
 0.12040   0.12261   0.12462   0.12582
  3858805.26 | 0.11044   0.11152   0.11269   0.11405   0.11443
 0.11758   0.11972   0.12146   0.12335
  3858780.33 | 0.10741   0.10838   0.10957   0.11125   0.11253
 0.11449   0.11675   0.11861   0.12041
  3858755.40 | 0.10506   0.10591   0.10726   0.10890   0.11050
 0.11205   0.11407   0.11586   0.11739
  3858730.47 | 0.10315   0.10403   0.10536   0.10680   0.10836
 0.10988   0.11184   0.11321   0.11466
  3858705.54 | 0.10116   0.10221   0.10336   0.10460   0.10612
 0.10794   0.10968   0.11117   0.11254
  3858680.61 | 0.09879   0.09969   0.10112   0.10247   0.10395
 0.10557   0.10743   0.10920   0.11065
  3858655.68 | 0.09697   0.09786   0.09910   0.10041   0.10217
 0.10360   0.10525   0.10663   0.10817
  3858630.75 | 0.09508   0.09594   0.09729   0.09842   0.10014
 0.10154   0.10315   0.10448   0.10577
  3858605.82 | 0.09311   0.09409   0.09553   0.09663   0.09817
 0.09954   0.10111   0.10254   0.10345
  3858580.89 | 0.09121   0.09242   0.09382   0.09490   0.09612
 0.09762   0.09915   0.10052   0.10136
  3858555.96 | 0.08963   0.09067   0.09189   0.09308   0.09428
 0.09561   0.09710   0.09842   0.09933
  3858531.03 | 0.08809   0.08896   0.09001   0.09118   0.09250
 0.09395   0.09527   0.09653   0.09736
  3858506.10 | 0.08635   0.08718   0.08819   0.08920   0.09050
 0.09207   0.09349   0.09456   0.09545

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 , L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 , L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489121.42	489151.24	489181.06
3858904.98	0.13710	0.13823	0.13778
3858880.05	0.13379	0.13436	0.13425
3858855.12	0.13039	0.13086	0.13064
3858830.19	0.12692	0.12789	0.12716
3858805.26	0.12436	0.12444	0.12382
3858780.33	0.12151	0.12168	0.12079
3858755.40	0.11857	0.11865	0.11805
3858730.47	0.11575	0.11573	0.11504
3858705.54	0.11302	0.11291	0.11213
3858680.61	0.11088	0.11086	0.10950
3858655.68	0.10880	0.10853	0.10712
3858630.75	0.10662	0.10643	0.10497

  3861675.76 | 0.35985   0.35730   0.35097   0.35266   0.35798
 0.36238   0.36162   0.35666   0.35248
  3861650.62 | 0.37419   0.37011   0.36621   0.36821   0.37335
 0.37638   0.37470   0.37026   0.36429
  3861625.48 | 0.38903   0.38254   0.37985   0.38255   0.38855
 0.39227   0.38889   0.38544   0.37938
  3861600.34 | 0.40399   0.39965   0.39393   0.39778   0.40695
 0.41169   0.40543   0.39917   0.39811
  3861575.20 | 0.42588   0.41417   0.40805   0.41395   0.42374
 0.42533   0.41993   0.41270   0.41567

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  3861550.06 |       0.44353      0.43044      0.42562      0.43031      0.43652
 0.43794      0.43369      0.42919      0.43267
  3861524.92 |       0.46096      0.44869      0.44347      0.44679      0.45205
 0.45331      0.44914      0.44610      0.44932
  3861499.78 |       0.47951      0.46721      0.46157      0.46572      0.47180
 0.47001      0.46653      0.46476      0.47156
  3861474.64 |       0.49930      0.48647      0.48089      0.48642      0.49386
 0.48873      0.48565      0.48493      0.49780
  3861449.50 |       0.51930      0.50704      0.50152      0.50694      0.51155
 0.51081      0.50674      0.50676      0.51637
  3861424.36 |       0.54183      0.52963      0.52303      0.52824      0.53478
 0.53224      0.53005      0.53563      0.53968
  3861399.22 |       0.56596      0.55263      0.54542      0.55281      0.55964
 0.55639      0.55588      0.55840      0.56532
  3861374.08 |       0.59118      0.57662      0.57071      0.57916      0.58500
 0.58177      0.58278      0.58298      0.59357
  3861348.94 |       0.61825      0.60305      0.59791      0.60607      0.61080
 0.60849      0.60955      0.61148      0.62471
  3861323.80 |       0.64737      0.63380      0.62874      0.63494      0.63992
 0.63814      0.63589      0.64386      0.65909
  3861298.66 |       0.67960      0.66629      0.66212      0.66679      0.67445
 0.67038      0.66896      0.67993      0.69852
  3861273.52 |       0.71627      0.70065      0.69659      0.70376      0.70692
 0.70557      0.70683      0.72094      0.73989
  3861248.38 |       0.75907      0.73983      0.73303      0.74207      0.74295
 0.74237      0.74938      0.76508      0.78166
  3861223.24 |       0.80693      0.78566      0.77356      0.78168      0.78213
 0.78371      0.79546      0.81171      0.82701
  3861198.10 |       0.85948      0.83706      0.81992      0.82361      0.82599
 0.82929      0.84446      0.86287      0.87821
  3861172.96 |       0.91730      0.89368      0.86833      0.87157      0.87418
 0.87974      0.89869      0.91908      0.93512
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 183
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                                   INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,
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*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	490056.78	490131.30	490205.82	490280.34	490354.86	490429.38	490503.90	490578.42	490652.94
3861675.76	0.35417	0.35916	0.36183	0.36508	0.36890	0.37107	0.37300	0.37374	0.37569
3861650.62	0.36695	0.37291	0.37788	0.38351	0.38269	0.38483	0.38640	0.38997	0.39280
3861625.48	0.38269	0.39028	0.39696	0.40403	0.40090	0.40319	0.40388	0.40838	0.40968
3861600.34	0.40242	0.41056	0.41789	0.42336	0.42549	0.42738	0.42718	0.42609	0.42306
3861575.20	0.41878	0.42631	0.43617	0.44007	0.44107	0.44287	0.44319	0.44244	0.43713
3861550.06	0.43667	0.44843	0.45521	0.46030	0.45896	0.46321	0.45992	0.45788	0.45195
3861524.92	0.45830	0.46843	0.47387	0.48035	0.48158	0.48057	0.47770	0.47415	0.46764
3861499.78	0.48023	0.48805	0.49695	0.50356	0.50408	0.49949	0.49585	0.49100	0.48405
3861474.64	0.50104	0.51068	0.52436	0.52862	0.52378	0.52159	0.51545	0.50850	0.50072
3861449.50	0.52373	0.54167	0.55023	0.54865	0.54368	0.54203	0.53659	0.52787	0.51886
3861424.36	0.54904	0.56214	0.57408	0.57145	0.56629	0.56417	0.55592	0.54759	0.53815
3861399.22	0.57564	0.58779	0.59616	0.59464	0.59051	0.58640	0.57693	0.56788	0.55895
3861374.08	0.60535	0.61687	0.62351	0.62008	0.61593	0.61006	0.59997	0.59066	0.58287
3861348.94	0.63732	0.64692	0.65434	0.64854	0.64311	0.63486	0.62457	0.61526	0.60973
3861323.80	0.67112	0.67917	0.68204	0.67977	0.67326	0.66258	0.65123	0.64268	0.64011
3861298.66	0.70758	0.71778	0.71509	0.71280	0.70341	0.69276	0.68157	0.67693	0.67404
3861273.52	0.74549	0.75245	0.75294	0.74772	0.73595	0.72658	0.71492	0.71175	0.71390
3861248.38	0.78803	0.79177	0.79258	0.78405	0.77143	0.76157	0.75319	0.75727	0.75812
3861223.24	0.83497	0.83715	0.83554	0.82686	0.81127				

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 , L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 , L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	490727.46	490801.98	490876.50
3861675.76	0.37904	0.37313	0.36884
3861650.62	0.39358	0.38714	0.38219
3861625.48	0.40511	0.39930	0.39315
3861600.34	0.41749	0.41177	0.40463
3861575.20	0.43111	0.42469	0.41753
3861550.06	0.44508	0.43850	0.43166
3861524.92	0.46068	0.45318	0.44754
3861499.78	0.47647	0.47039	0.46549
3861474.64	0.49294	0.48914	0.48585
3861449.50	0.51198	0.50759	0.50834
3861424.36	0.53174	0.53027	0.53147
3861399.22	0.55568	0.55505	0.55925
3861374.08	0.58186	0.58358	0.58951
3861348.94	0.61019	0.61577	0.62292
3861323.80	0.64291	0.65049	0.65941

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 0.45126      0.44830      0.44553      0.44249
  3861487.39 |       0.48228      0.47964      0.47686      0.47348      0.47004
 0.46655      0.46329      0.46001      0.45672
  3861457.94 |       0.50002      0.49666      0.49323      0.48974      0.48622
 0.48242      0.47887      0.47558      0.47205
  3861428.49 |       0.51886      0.51452      0.51099      0.50716      0.50332
 0.49949      0.49567      0.49187      0.48784
  3861399.04 |       0.53813      0.53338      0.52951      0.52507      0.52122
 0.51710      0.51274      0.50841      0.50439
  3861369.59 |       0.55761      0.55280      0.54861      0.54384      0.53941
 0.53530      0.53065      0.52632      0.52204
  3861340.14 |       0.57803      0.57317      0.56835      0.56356      0.55882
 0.55412      0.54947      0.54543      0.54030
  3861310.69 |       0.59983      0.59428      0.58911      0.58399      0.57893
 0.57422      0.56925      0.56463      0.55947
  3861281.24 |       0.62315      0.61720      0.61131      0.60617      0.60074
 0.59537      0.59005      0.58480      0.57990
  3861251.79 |       0.64775      0.64137      0.63506      0.62952      0.62336
 0.61761      0.61192      0.60661      0.60103
  3861222.34 |       0.67372      0.66686      0.66009      0.65377      0.64751
 0.64098      0.63487      0.62916      0.62350
  3861192.89 |       0.70073      0.69374      0.68720      0.68037      0.67288
 0.66586      0.65892      0.65311      0.64733
  3861163.44 |       0.72958      0.72242      0.71610      0.70830      0.69986
 0.69190      0.68549      0.67843      0.67214
  3861133.99 |       0.75906      0.75294      0.74559      0.73714      0.72801
 0.71940      0.71313      0.70398      0.69675
  3861104.54 |       0.79077      0.78313      0.77468      0.76591      0.75683
 0.74747      0.73784      0.72949      0.72160
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 186
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                                   INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                     *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***
```

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	491888.31	491919.10	491949.89	491980.68	492011.47	492042.26	492073.05	492103.84	492134.63
3861693.54	0.36226	0.35916	0.35794	0.35639	0.35473	0.35298	0.35045	0.34839	0.34646
3861664.09	0.37397	0.37195	0.37019	0.36888	0.36711	0.36508	0.36084	0.35857	0.35663
3861634.64	0.38594	0.38415	0.38247	0.38050	0.37866	0.37658	0.37374	0.36979	0.36694
3861605.19	0.39929	0.39699	0.39483	0.39241	0.38997	0.38788	0.38502	0.38235	0.37894
3861575.74	0.41254	0.40975	0.40714	0.40490	0.40204	0.40016	0.39826	0.39407	0.39181
3861546.29	0.42619	0.42335	0.42050	0.41765	0.41561	0.41255	0.40891	0.40590	0.40330
3861516.84	0.44011	0.43704	0.43376	0.43049	0.42850	0.42547	0.42123	0.41846	0.41530
3861487.39	0.45390	0.45085	0.44781	0.44433	0.44133	0.43897	0.43452	0.43116	0.42805
3861457.94	0.46854	0.46528	0.46181	0.45882	0.45540	0.45311	0.44821	0.44488	0.44159
3861428.49	0.48385	0.48038	0.47694	0.47353	0.46990	0.46745	0.46298	0.45923	0.45553
3861399.04	0.50041	0.49672	0.49306	0.48918	0.48533	0.48247	0.47799	0.47402	0.47033
3861369.59	0.51807	0.51334	0.50996	0.50558	0.50150	0.49819	0.49321	0.48926	0.48581
3861340.14	0.53661	0.53104	0.52715	0.52277	0.51843	0.51489	0.51013	0.50591	0.50174
3861310.69	0.55522	0.54989	0.54517	0.54078	0.53642	0.53262	0.52757	0.52333	0.51863
3861281.24	0.57475	0.56966	0.56462	0.55963	0.55552	0.55036	0.54525	0.54072	0.53598
3861251.79	0.59522	0.59007	0.58497	0.57992	0.57520	0.56940	0.56421	0.55881	0.55374
3861222.34	0.61726	0.61203	0.60654	0.60079	0.59511	0.58919	0.58390	0.57839	0.57265
3861192.89	0.64126	0.63493	0.62898	0.62278	0.61664	0.60966	0.60424	0.59857	0.59266
3861163.44	0.66555	0.65869	0.65190	0.64517	0.63883	0.63131	0.62510	0.61923	0.61254
3861133.99	0.68888	0.68213	0.67476	0.66714	0.65992	0.65277	0.64601	0.63930	0.63205

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                                    INCLUDING SOURCE(S):   L0000232   , L0000233
, L0000234   , L0000235   , L0000236   ,
                  L0000237   , L0000238   , L0000239   , L0000240   , L0000241
, L0000242   , L0000243   , L0000244   ,
                  L0000245   , L0000246   , L0000247   , L0000248   , L0000249
, L0000250   , L0000251   , L0000252   ,
                  L0000253   , L0000254   , L0000255   , L0000256   , L0000257
, L0000258   , L0000259   ,

                                     *** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

    Y-COORD | X-COORD (METERS)
    (METERS) | 492165.42   492196.21   492227.00
 -
- -

  3861693.54 | 0.34449   0.34233   0.34049
  3861664.09 | 0.35448   0.35233   0.35035
  3861634.64 | 0.36391   0.36270   0.36023
  3861605.19 | 0.37518   0.37311   0.37051
  3861575.74 | 0.38749   0.38415   0.38159
  3861546.29 | 0.40014   0.39721   0.39392
  3861516.84 | 0.41277   0.40948   0.40661
  3861487.39 | 0.42517   0.42210   0.41907
  3861457.94 | 0.43832   0.43509   0.43209
  3861428.49 | 0.45229   0.44887   0.44547
  3861399.04 | 0.46689   0.46326   0.45988
  3861369.59 | 0.48192   0.47830   0.47470
  3861340.14 | 0.49762   0.49376   0.49017
  3861310.69 | 0.51423   0.50964   0.50580
  3861281.24 | 0.53103   0.52639   0.52203
  3861251.79 | 0.54872   0.54348   0.53856
  3861222.34 | 0.56724   0.56162   0.55579
  3861192.89 | 0.58653   0.58020   0.57393

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 , L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 , L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488802.97	3861310.09	0.61658	488863.58	3861309.29	0.64095
488847.63	3861279.78	0.66064	488850.82	3861262.24	0.67870
488810.14	3861261.44	0.65942	488810.94	3861289.36	0.63540
488819.72	3861306.90	0.62396	488816.53	3861235.92	0.68471
488841.25	3861126.66	0.83139	488879.53	3861121.88	0.87244
488913.82	3861121.08	0.90718	488925.79	3861092.37	0.97481
488920.03	3861067.49	1.02336	488996.74	3861113.92	0.98992
488974.03	3861097.77	1.02024	488931.63	3860976.64	1.18325
488935.67	3861034.68	1.10702	488959.90	3861061.43	1.09479

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        489165.81    3861208.80        0.85046                    489317.74
3861109.28        1.08903
        489385.87    3861014.75        1.37069                    489372.24
3861112.69        1.06553
        489420.79    3861106.73        1.06061                    489436.12
3861037.74        1.25429
        489488.07    3861036.89        1.25709                    489473.59
3861110.99        1.03804
        489431.01    3861167.20        0.92130                    489662.66
3860915.95        1.88265
        489644.78    3861076.07        1.11958                    489659.26
3861099.06        1.05068
        489735.91    3861020.71        1.33496                    489700.14
3861029.23        1.29113
        489708.65    3861062.44        1.17220                    489779.34
3861099.06        1.07162
        489835.95    3859138.59        0.14210                    489885.95
3859138.59        0.13957
        489935.95    3859138.59        0.13751                    489985.95
3859138.59        0.13304
        490035.95    3859138.59        0.12928                    490085.95
3859138.59        0.12784
        490135.95    3859138.59        0.12892                    490185.95
3859138.59        0.12876
        490235.95    3859138.59        0.12833                    490285.95
3859138.59        0.12601
        490335.95    3859138.59        0.12305                    490385.95
3859138.59        0.11807
        490435.95    3859138.59        0.11907                    490485.95
3859138.59        0.11535
        490535.95    3859138.59        0.10833                    490585.95
3859138.59        0.10409
        490635.95    3859138.59        0.09786                    490685.95
3859138.59        0.09260
        490735.95    3859138.59        0.08951                    490785.95
3859138.59        0.08651
        490835.95    3859138.59        0.08345                    490885.95
3859138.59        0.08130
        489835.95    3859188.59        0.15195                    489885.95
3859188.59        0.14868
        489935.95    3859188.59        0.14683                    489985.95
3859188.59        0.14193
        490035.95    3859188.59        0.14054                    490085.95
3859188.59        0.14211
        490135.95    3859188.59        0.14042                    490185.95
3859188.59        0.13889
        490235.95    3859188.59        0.13676                    490285.95
3859188.59        0.13671
        490335.95    3859188.59        0.13750                    490385.95
3859188.59        0.13531
```

```
         490435.95    3859188.59        0.13063                       490485.95
3859188.59        0.12184
         490535.95    3859188.59        0.11652                       490585.95
3859188.59        0.11244
         490635.95    3859188.59        0.10395                       490685.95
3859188.59        0.09500
         490735.95    3859188.59        0.08980                       490785.95
3859188.59        0.08742
         490835.95    3859188.59        0.08951                       490885.95
3859188.59        0.08794
         489835.95    3859238.59        0.16145                       489885.95
3859238.59        0.15952
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
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                                  PAGE 189
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                              INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         489935.95    3859238.59        0.15643                       489985.95
3859238.59        0.14953
         490035.95    3859238.59        0.14994                       490085.95
3859238.59        0.15314
         490135.95    3859238.59        0.15426                       490185.95
3859238.59        0.15554
         490235.95    3859238.59        0.15325                       490285.95
3859238.59        0.15177
         490335.95    3859238.59        0.15041                       490385.95
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3859238.59 0.14931
490435.95 3859238.59 0.14547 490485.95
3859238.59 0.14073
490535.95 3859238.59 0.13142 490585.95
3859238.59 0.12178
490635.95 3859238.59 0.11350 490685.95
3859238.59 0.11081
490735.95 3859238.59 0.10443 490785.95
3859238.59 0.10404
490835.95 3859238.59 0.10314 490885.95
3859238.59 0.10076
489835.95 3859288.59 0.17360 489885.95
3859288.59 0.17085
489935.95 3859288.59 0.16701 489985.95
3859288.59 0.15961
490035.95 3859288.59 0.16226 490085.95
3859288.59 0.16469
490135.95 3859288.59 0.16828 490185.95
3859288.59 0.17111
490235.95 3859288.59 0.17130 490285.95
3859288.59 0.17323
490335.95 3859288.59 0.16977 490385.95
3859288.59 0.16459
490435.95 3859288.59 0.15535 490485.95
3859288.59 0.15431
490535.95 3859288.59 0.15421 490585.95
3859288.59 0.14137
490635.95 3859288.59 0.13756 490685.95
3859288.59 0.13219
490735.95 3859288.59 0.12381 490785.95
3859288.59 0.12181
490835.95 3859288.59 0.12060 490885.95
3859288.59 0.11938
489835.95 3859338.59 0.18821 489885.95
3859338.59 0.18637
489935.95 3859338.59 0.17923 489985.95
3859338.59 0.17755
490035.95 3859338.59 0.17937 490085.95
3859338.59 0.18416
490135.95 3859338.59 0.18775 490185.95
3859338.59 0.19187
490235.95 3859338.59 0.19566 490285.95
3859338.59 0.19672
490335.95 3859338.59 0.19249 490385.95
3859338.59 0.18837
490435.95 3859338.59 0.18380 490485.95
3859338.59 0.17672
490535.95 3859338.59 0.17100 490585.95
3859338.59 0.16458
490635.95 3859338.59 0.16047 490685.95

3859338.59   0.15281
         490735.95   3859338.59   0.14579   490785.95
3859338.59   0.14284
         490835.95   3859338.59   0.14619   490885.95
3859338.59   0.14560
         489835.95   3859388.59   0.20158   489885.95
3859388.59   0.19920
         489935.95   3859388.59   0.19941   489985.95
3859388.59   0.19705
         490035.95   3859388.59   0.20083   490085.95
3859388.59   0.20726
         490135.95   3859388.59   0.21276   490185.95
3859388.59   0.21769
         490235.95   3859388.59   0.22141   490285.95
3859388.59   0.22402
         490335.95   3859388.59   0.22038   490385.95
3859388.59   0.21660
         490435.95   3859388.59   0.21260   490485.95
3859388.59   0.20624
         490535.95   3859388.59   0.19877   490585.95
3859388.59   0.19279

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                                 INCLUDING SOURCE(S):   L0000232   , L0000233
, L0000234   , L0000235   , L0000236   ,
                  L0000237   , L0000238   , L0000239   , L0000240   , L0000241
, L0000242   , L0000243   , L0000244   ,
                  L0000245   , L0000246   , L0000247   , L0000248   , L0000249
, L0000250   , L0000251   , L0000252   ,
                  L0000253   , L0000254   , L0000255   , L0000256   , L0000257
, L0000258   , L0000259   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

490635.95 3859388.59 0.18623 490685.95
3859388.59 0.17397
490735.95 3859388.59 0.16272 490785.95
3859388.59 0.16714
490835.95 3859388.59 0.17871 490885.95
3859388.59 0.18428
489835.95 3859438.59 0.22466 489885.95
3859438.59 0.22050
489935.95 3859438.59 0.21908 489985.95
3859438.59 0.22128
490035.95 3859438.59 0.22657 490085.95
3859438.59 0.23205
490135.95 3859438.59 0.24050 490185.95
3859438.59 0.24724
490235.95 3859438.59 0.25111 490285.95
3859438.59 0.25171
490335.95 3859438.59 0.24911 490385.95
3859438.59 0.24447
490435.95 3859438.59 0.23860 490485.95
3859438.59 0.23134
490535.95 3859438.59 0.22594 490585.95
3859438.59 0.22127
490635.95 3859438.59 0.21584 490685.95
3859438.59 0.21177
490735.95 3859438.59 0.21237 490785.95
3859438.59 0.21122
490835.95 3859438.59 0.22002 490885.95
3859438.59 0.23021
490085.95 3859488.59 0.26431 490135.95
3859488.59 0.27292
490185.95 3859488.59 0.28112 490235.95
3859488.59 0.28430
490285.95 3859488.59 0.28176 490335.95
3859488.59 0.28016
490385.95 3859488.59 0.27350 490435.95
3859488.59 0.26827
490485.95 3859488.59 0.26242 490535.95
3859488.59 0.25874
490585.95 3859488.59 0.25473 490635.95
3859488.59 0.25435
490685.95 3859488.59 0.25701 490735.95
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490785.95 3859488.59 0.26469 490835.95
3859488.59 0.27485
490885.95 3859488.59 0.28268 490085.95
3859538.59 0.30080
490135.95 3859538.59 0.31057 490185.95
3859538.59 0.31719
490235.95 3859538.59 0.32106 490285.95
3859538.59 0.31931

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         490335.95    3859538.59        0.31323                      490385.95
3859538.59        0.30770
         490435.95    3859538.59        0.30303                      490485.95
3859538.59        0.30016
         490535.95    3859538.59        0.29990                      490585.95
3859538.59        0.30098
         490635.95    3859538.59        0.30586                      490685.95
3859538.59        0.31335
         490735.95    3859538.59        0.31916                      490785.95
3859538.59        0.32772
         490835.95    3859538.59        0.33668                      490885.95
3859538.59        0.33581
         490135.95    3859588.59        0.35444                      490185.95
3859588.59        0.35552
         490235.95    3859588.59        0.35798                      490285.95
3859588.59        0.35710
         490335.95    3859588.59        0.35136                      490385.95
3859588.59        0.35038
         490435.95    3859588.59        0.34941                      490485.95
3859588.59        0.35084
         490535.95    3859588.59        0.35501                      490585.95
3859588.59        0.36319
         490635.95    3859588.59        0.37088                      490685.95
3859588.59        0.38250
         490735.95    3859588.59        0.39019                      490785.95
3859588.59        0.39602
         490835.95    3859588.59        0.40226                      490885.95
3859588.59        0.40216
         490135.95    3859638.59        0.38521                      490185.95
3859638.59        0.40563
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
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                                  PAGE 191
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                                  INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
```

***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490235.95	3859638.59	0.39895	490285.95	3859638.59	0.40428
490335.95	3859638.59	0.40083	490385.95	3859638.59	0.40056
490435.95	3859638.59	0.40855	490485.95	3859638.59	0.41624
490535.95	3859638.59	0.42775	490585.95	3859638.59	0.44199
490635.95	3859638.59	0.45269	490685.95	3859638.59	0.46283
490735.95	3859638.59	0.46879	490785.95	3859638.59	0.47311
490835.95	3859638.59	0.47736	490885.95	3859638.59	0.47997
490135.95	3859688.59	0.45095	490185.95	3859688.59	0.45218
490235.95	3859688.59	0.45329	490285.95	3859688.59	0.44551
490335.95	3859688.59	0.45698	490385.95	3859688.59	0.47895
490435.95	3859688.59	0.48423	490485.95	3859688.59	0.50051
490535.95	3859688.59	0.51615	490585.95	3859688.59	0.53547
490635.95	3859688.59	0.54713	490685.95	3859688.59	0.55358
490735.95	3859688.59	0.55631	490785.95	3859688.59	0.55804
490835.95	3859688.59	0.56180	490885.95	3859688.59	0.57444
490085.95	3859738.59	0.50194	490135.95	3859738.59	0.50821
490185.95	3859738.59	0.51626	490235.95	3859738.59	0.53939
490285.95	3859738.59	0.53148	490335.95	3859738.59	0.55468
490385.95	3859738.59	0.55826	490435.95	3859738.59	0.58518
490485.95	3859738.59	0.60395	490535.95	3859738.59	0.62959
490585.95	3859738.59	0.64405	490635.95		

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3859738.59        0.65411
         490685.95    3859738.59        0.66031                      490735.95
3859738.59        0.66533
         490785.95    3859738.59        0.67136                      490835.95
3859738.59        0.67518
         490885.95    3859738.59        0.68098                      490085.95
3859788.59        0.56924
         490135.95    3859788.59        0.58114                      490185.95
3859788.59        0.59608
         490235.95    3859788.59        0.63447                      490285.95
3859788.59        0.66081
         490335.95    3859788.59        0.68565                      490385.95
3859788.59        0.71278
         490435.95    3859788.59        0.72704                      490485.95
3859788.59        0.74680
         490535.95    3859788.59        0.75714                      490585.95
3859788.59        0.77964
         490635.95    3859788.59        0.78084                      490685.95
3859788.59        0.78597
         490735.95    3859788.59        0.79968                      490785.95
3859788.59        0.80511
         490835.95    3859788.59        0.80449                      490885.95
3859788.59        0.79044
         490085.95    3859838.59        0.66138                      490135.95
3859838.59        0.68221
         490185.95    3859838.59        0.71680                      490235.95
3859838.59        0.75000
         490285.95    3859838.59        0.79631                      490335.95
3859838.59        0.83063
         490385.95    3859838.59        0.86346                      490435.95
3859838.59        0.89338
         490485.95    3859838.59        0.91967                      490535.95
3859838.59        0.92194
         490585.95    3859838.59        0.93327                      490635.95
3859838.59        0.94306
         490685.95    3859838.59        0.95632                      490735.95
3859838.59        0.95293
         490785.95    3859838.59        0.94284                      490835.95
3859838.59        0.94271
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 192
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                                    INCLUDING SOURCE(S):     L0000232    , L0000233
```

```
, L0000234    , L0000235    , L0000236    ,
                L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         490885.95    3859838.59        0.93562                       490085.95
3859888.59        0.79451
         490135.95    3859888.59        0.84921                       490185.95
3859888.59        0.88573
         490235.95    3859888.59        0.93784                       490285.95
3859888.59        0.98003
         490335.95    3859888.59        1.01997                       490385.95
3859888.59        1.05590
         490435.95    3859888.59        1.08709                       490485.95
3859888.59        1.11211
         490535.95    3859888.59        1.13005                       490585.95
3859888.59        1.12052
         490635.95    3859888.59        1.12650                       490685.95
3859888.59        1.12875
         490735.95    3859888.59        1.13005                       490785.95
3859888.59        1.13062
         490835.95    3859888.59        1.12082                       490885.95
3859888.59        1.09470
         490135.95    3859938.59        1.07109                       490185.95
3859938.59        1.12263
         490235.95    3859938.59        1.17394                       490285.95
3859938.59        1.22206
         490335.95    3859938.59        1.26422                       490385.95
3859938.59        1.29830
         490435.95    3859938.59        1.32506                       490485.95
3859938.59        1.34407
         490535.95    3859938.59        1.35381                       490585.95
3859938.59        1.35642
         490635.95    3859938.59        1.34920                       490685.95
3859938.59        1.32424
         490735.95    3859938.59        1.31208                       490785.95
3859938.59        1.30633
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         490835.95    3859938.59        1.29574                    490885.95
3859938.59        1.30301
         490135.95    3859988.59        1.36841                    490185.95
3859988.59        1.43148
         490235.95    3859988.59        1.48590                    490285.95
3859988.59        1.53352
         490335.95    3859988.59        1.57004                    490385.95
3859988.59        1.59737
         490435.95    3859988.59        1.61343                    490485.95
3859988.59        1.61991
         490535.95    3859988.59        1.61836                    490585.95
3859988.59        1.60993
         490635.95    3859988.59        1.59576                    490685.95
3859988.59        1.56102
         490735.95    3859988.59        1.54279                    490785.95
3859988.59        1.52493
         490835.95    3859988.59        1.50674                    490885.95
3859988.59        1.49299
         490135.95    3860038.59        1.78261                    490185.95
3860038.59        1.84823
         490235.95    3860038.59        1.89805                    490285.95
3860038.59        1.93314
         490335.95    3860038.59        1.95174                    490385.95
3860038.59        1.96089
         490435.95    3860038.59        1.95827                    490485.95
3860038.59        1.94643
         490535.95    3860038.59        1.92700                    490585.95
3860038.59        1.90250
         490635.95    3860038.59        1.87468                    490685.95
3860038.59        1.84147
         490735.95    3860038.59        1.80154                    490785.95
3860038.59        1.76533
         490835.95    3860038.59        1.72827                    490885.95
3860038.59        1.69196
         490135.95    3860088.59        2.34667                    490185.95
3860088.59        2.39144
         490235.95    3860088.59        2.41904                    490285.95
3860088.59        2.42648
         490335.95    3860088.59        2.41917                    490385.95
3860088.59        2.39850
         490435.95    3860088.59        2.36780                    490485.95
3860088.59        2.32945
         490535.95    3860088.59        2.28431                    490585.95
3860088.59        2.23492
         490635.95    3860088.59        2.18269                    490685.95
3860088.59        2.12783
         490735.95    3860088.59        2.07077                    490785.95
3860088.59        2.01219
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 , L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 , L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490835.95	3860088.59	1.95567	490885.95	3860088.59	1.89997
490135.95	3860138.59	3.09625	490185.95	3860138.59	3.09521
490235.95	3860138.59	3.07536	490285.95	3860138.59	3.03470
490335.95	3860138.59	2.98033	490385.95	3860138.59	2.91627
490435.95	3860138.59	2.84434	490485.95	3860138.59	2.76545
490535.95	3860138.59	2.68289	490585.95	3860138.59	2.59857
490635.95	3860138.59	2.51358	490685.95	3860138.59	2.42882
490735.95	3860138.59	2.34559	490785.95	3860138.59	2.26418
490835.95	3860138.59	2.18473	490885.95	3860138.59	2.10716
490935.95	3860138.59	2.03014	490985.95	3860138.59	1.95812
491035.95	3860138.59	1.88965	490135.95	3860188.59	4.05950
490185.95	3860188.59	3.97448	490235.95		

3860188.59 3.87419
490285.95 3860188.59 3.75927 490335.95
3860188.59 3.63472
490385.95 3860188.59 3.50434 490435.95
3860188.59 3.37089
490485.95 3860188.59 3.23703 490535.95
3860188.59 3.10492
490585.95 3860188.59 2.97661 490635.95
3860188.59 2.85155
490685.95 3860188.59 2.73230 490735.95
3860188.59 2.61541
490785.95 3860188.59 2.50724 490835.95
3860188.59 2.40420
490885.95 3860188.59 2.30214 490935.95
3860188.59 2.20488
490985.95 3860188.59 2.11593 491035.95
3860188.59 2.02989
491085.95 3860188.59 1.94654 491135.95
3860188.59 1.87222
490135.95 3860238.59 5.25247 490185.95
3860238.59 5.02681
490235.95 3860238.59 4.79837 490285.95
3860238.59 4.56984
490335.95 3860238.59 4.34482 490385.95
3860238.59 4.12623
490435.95 3860238.59 3.91586 490485.95
3860238.59 3.71547
490535.95 3860238.59 3.52573 490585.95
3860238.59 3.34716
490635.95 3860238.59 3.17908 490685.95
3860238.59 3.02134
490735.95 3860238.59 2.87292 490785.95
3860238.59 2.73383
490835.95 3860238.59 2.60330 490885.95
3860238.59 2.48188
490935.95 3860238.59 2.36784 490985.95
3860238.59 2.26761
491035.95 3860238.59 2.16532 491085.95
3860238.59 2.06601
491135.95 3860238.59 1.97694 490135.95
3860288.59 6.60756
490185.95 3860288.59 6.17782 490235.95
3860288.59 5.77160
490285.95 3860288.59 5.39853 490335.95
3860288.59 5.05183
490385.95 3860288.59 4.73048 490435.95
3860288.59 4.43490
490485.95 3860288.59 4.16286 490535.95
3860288.59 3.91160
490585.95 3860288.59 3.67890 490635.95

3860288.59 3.46696
 490685.95 3860288.59 3.27336 490735.95
3860288.59 3.09396
 490785.95 3860288.59 2.92922 490835.95
3860288.59 2.77476
 490885.95 3860288.59 2.63387 490935.95
3860288.59 2.50022

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 ,
L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 ,
L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 ,
L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490985.95	3860288.59	2.38309	491035.95	3860288.59	2.26860
491085.95	3860288.59	2.16008	490135.95	3860338.59	7.94592
490185.95	3860338.59	7.26914	490235.95	3860338.59	6.66637
490285.95	3860338.59	6.13677	490335.95	3860338.59	5.66414
490385.95	3860338.59	5.24172	490435.95	3860338.59	4.86354
490485.95	3860338.59	4.52360	490535.95	3860338.59	4.21811
490585.95	3860338.59	3.93824	490635.95	3860338.59	3.68705

490685.95 3860338.59 3.46050 490735.95
3860338.59 3.25462
490785.95 3860338.59 3.07148 490835.95
3860338.59 2.89698
490885.95 3860338.59 2.73802 490935.95
3860338.59 2.59079
490985.95 3860338.59 2.45455 491035.95
3860338.59 2.33138
491085.95 3860338.59 2.21677 490135.95
3860388.59 8.96838
490185.95 3860388.59 8.06873 490235.95
3860388.59 7.29983
490285.95 3860388.59 6.63933 490335.95
3860388.59 6.06676
490385.95 3860388.59 5.56664 490435.95
3860388.59 5.12739
490485.95 3860388.59 4.74015 490535.95
3860388.59 4.39400
490585.95 3860388.59 4.08556 490635.95
3860388.59 3.80757
490685.95 3860388.59 3.56151 490735.95
3860388.59 3.33662
490785.95 3860388.59 3.13496 490835.95
3860388.59 2.95404
490135.95 3860438.59 9.36490 490185.95
3860438.59 8.35751
490235.95 3860438.59 7.51237 490285.95
3860438.59 6.79557
490335.95 3860438.59 6.18062 490385.95
3860438.59 5.65012
490435.95 3860438.59 5.18695 490485.95
3860438.59 4.77926
490535.95 3860438.59 4.42189 490585.95
3860438.59 4.10256
490635.95 3860438.59 3.81793 490685.95
3860438.59 3.56532
490735.95 3860438.59 3.34010 490785.95
3860438.59 3.13360
490835.95 3860438.59 2.95173 490135.95
3860488.59 9.10268
490185.95 3860488.59 8.13281 490235.95
3860488.59 7.31638
490285.95 3860488.59 6.62504 490335.95
3860488.59 6.02911
490385.95 3860488.59 5.51546 490435.95
3860488.59 5.07219
490485.95 3860488.59 4.67511 490535.95
3860488.59 4.32324
490585.95 3860488.59 4.01192 490635.95
3860488.59 3.73845

```
         490685.95    3860488.59        3.48909                      490735.95
3860488.59        3.26981
         490785.95    3860488.59        3.07108                      490135.95
3860538.59        8.39806
         490185.95    3860538.59        7.56470                      490235.95
3860538.59        6.84540
         490285.95    3860538.59        6.22750                      490335.95
3860538.59        5.69567
         490385.95    3860538.59        5.23547                      490435.95
3860538.59        4.82799
         490485.95    3860538.59        4.46890                      490535.95
3860538.59        4.15810
         490585.95    3860538.59        3.85397                      490635.95
3860538.59        3.59361
         490685.95    3860538.59        3.36379                      490735.95
3860538.59        3.15421
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***       07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***       01:16:45

                                  PAGE 195
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                                  INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         490785.95    3860538.59        2.96708                      490135.95
3860588.59        7.43699
         490185.95    3860588.59        6.73357                      490235.95
3860588.59        6.18732
         490285.95    3860588.59        5.69229                      490335.95
```

3860588.59 5.24459
490385.95 3860588.59 4.84685 490435.95 3860588.59 4.51415
490485.95 3860588.59 4.20280 490535.95 3860588.59 3.91827
490585.95 3860588.59 3.63655 490635.95 3860588.59 3.40676
490685.95 3860588.59 3.19691 490735.95 3860588.59 3.00721
490785.95 3860588.59 2.83251 490135.95 3860638.59 6.32639
490185.95 3860638.59 5.87215 490235.95 3860638.59 5.43321
490285.95 3860638.59 5.04643 490335.95 3860638.59 4.70856
490385.95 3860638.59 4.39515 490435.95 3860638.59 4.10531
490485.95 3860638.59 3.84553 490535.95 3860638.59 3.61544
490585.95 3860638.59 3.39109 490635.95 3860638.59 3.19224
490685.95 3860638.59 3.00748 490735.95 3860638.59 2.83380
490785.95 3860638.59 2.68047 490135.95 3860688.59 5.23160
490185.95 3860688.59 4.93958 490235.95 3860688.59 4.65885
490285.95 3860688.59 4.35164 490335.95 3860688.59 4.11860
490385.95 3860688.59 3.89284 490435.95 3860688.59 3.67274
490485.95 3860688.59 3.46187 490535.95 3860688.59 3.27560
490585.95 3860688.59 3.10217 490635.95 3860688.59 2.94107
490685.95 3860688.59 2.79295 490735.95 3860688.59 2.64873
490785.95 3860688.59 2.52022 490135.95 3860738.59 4.25243
490185.95 3860738.59 4.05166 490235.95 3860738.59 3.86927
490285.95 3860738.59 3.69811 490335.95 3860738.59 3.53216
490385.95 3860738.59 3.37514 490435.95 3860738.59 3.23866
490485.95 3860738.59 3.08144 490535.95 3860738.59 2.91970
490585.95 3860738.59 2.78229 490635.95 3860738.59 2.65687
490685.95 3860738.59 2.54441 490735.95

3860738.59   2.43639
         490785.95   3860738.59   2.33577   490135.95
3860788.59   3.42642
         490185.95   3860788.59   3.33352   490235.95
3860788.59   3.22534
         490285.95   3860788.59   3.11374   490335.95
3860788.59   2.99768
         490385.95   3860788.59   2.89806   490435.95
3860788.59   2.78962
         490485.95   3860788.59   2.69246   490535.95
3860788.59   2.58215
         490585.95   3860788.59   2.46566   490635.95
3860788.59   2.36768
         490685.95   3860788.59   2.27948   490735.95
3860788.59   2.19919
         490785.95   3860788.59   2.11432   489985.95
3860838.59   2.72763
         490035.95   3860838.59   2.75051   490085.95
3860838.59   2.77249
         490135.95   3860838.59   2.77508   490185.95
3860838.59   2.73994
         490235.95   3860838.59   2.68769   490285.95
3860838.59   2.62844
         490335.95   3860838.59   2.55277   490385.95
3860838.59   2.47683

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
                                  INCLUDING SOURCE(S):   L0000232   , L0000233 , L0000234   , L0000235   , L0000236   ,
                  L0000237   , L0000238   , L0000239   , L0000240   , L0000241 , L0000242   , L0000243   , L0000244   ,
                  L0000245   , L0000246   , L0000247   , L0000248   , L0000249 , L0000250   , L0000251   , L0000252   ,
                  L0000253   , L0000254   , L0000255   , L0000256   , L0000257 , L0000258   , L0000259   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490435.95	3860838.59	2.40750	490485.95	3860838.59	2.33428
490535.95	3860838.59	2.25733	490585.95	3860838.59	2.17665
490635.95	3860838.59	2.09909	490685.95	3860838.59	2.03083
490735.95	3860838.59	1.96920	490785.95	3860838.59	1.90636
490835.95	3860838.59	1.84293	489835.95	3860888.59	2.22313
489885.95	3860888.59	2.21668	489935.95	3860888.59	2.20371
489985.95	3860888.59	2.19859	490035.95	3860888.59	2.20353
490085.95	3860888.59	2.22217	490135.95	3860888.59	2.23707
490185.95	3860888.59	2.23990	490235.95	3860888.59	2.23310
490285.95	3860888.59	2.21043	490335.95	3860888.59	2.17203
490385.95	3860888.59	2.13192	490435.95	3860888.59	2.08699
490485.95	3860888.59	2.03376	490535.95	3860888.59	1.97706
490585.95	3860888.59	1.91785	490635.95	3860888.59	1.85832
490685.95	3860888.59	1.80384	490735.95	3860888.59	1.75247
490785.95	3860888.59	1.70024	490835.95	3860888.59	1.65384
490885.95	3860888.59	1.61215	490935.95	3860888.59	1.56660
489835.95	3860938.59	1.83939	489885.95	3860938.59	1.84329
489935.95	3860938.59	1.83899	489985.95	3860938.59	1.82795
490035.95	3860938.59	1.81733	490085.95	3860938.59	1.81411
490135.95	3860938.59	1.81361	490185.95	3860938.59	1.82858
490235.95	3860938.59	1.84180	490285.95	3860938.59	1.84950
490335.95	3860938.59	1.84039	490385.95	3860938.59	1.82919
490435.95	3860938.59	1.80757	490485.95	3860938.59	1.77418

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         490535.95    3860938.59        1.73704                      490585.95
3860938.59        1.69331
         490635.95    3860938.59        1.64880                      490685.95
3860938.59        1.60607
         490735.95    3860938.59        1.56423                      490785.95
3860938.59        1.52394
         490835.95    3860938.59        1.48949                      490885.95
3860938.59        1.45671
         490935.95    3860938.59        1.41957                      489835.95
3860988.59        1.54740
         489885.95    3860988.59        1.56387                      489935.95
3860988.59        1.56632
         489985.95    3860988.59        1.55907                      490035.95
3860988.59        1.54487
         490085.95    3860988.59        1.53311                      490135.95
3860988.59        1.52391
         490185.95    3860988.59        1.52818                      490235.95
3860988.59        1.53129
         490285.95    3860988.59        1.54091                      490335.95
3860988.59        1.55105
         490385.95    3860988.59        1.55609                      490435.95
3860988.59        1.55851
         490485.95    3860988.59        1.54525                      490535.95
3860988.59        1.52232
         490585.95    3860988.59        1.49540                      490635.95
3860988.59        1.46706
         490685.95    3860988.59        1.43383                      490735.95
3860988.59        1.39956
         490785.95    3860988.59        1.36833                      490835.95
3860988.59        1.33977
         490885.95    3860988.59        1.31357                      490935.95
3860988.59        1.28306
         489835.95    3861038.59        1.31659                      489885.95
3861038.59        1.33832
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***       07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***       01:16:45

                                  PAGE 197
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
                                  INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
```

L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
489935.95	3861038.59	1.34492	489985.95	3861038.59	1.34399
490035.95	3861038.59	1.33689	490085.95	3861038.59	1.32481
490135.95	3861038.59	1.31187	490185.95	3861038.59	1.30202
490235.95	3861038.59	1.30030	490285.95	3861038.59	1.30104
490335.95	3861038.59	1.30818	490385.95	3861038.59	1.32311
490435.95	3861038.59	1.33541	490485.95	3861038.59	1.33803
490535.95	3861038.59	1.33195	490585.95	3861038.59	1.31903
490635.95	3861038.59	1.30050	490685.95	3861038.59	1.27879
490735.95	3861038.59	1.25540	490785.95	3861038.59	1.23222
490835.95	3861038.59	1.20929	490885.95	3861038.59	1.18576
490935.95	3861038.59	1.16293	489835.95	3861088.59	1.13413
489885.95	3861088.59	1.15115	489935.95	3861088.59	1.16328
489985.95	3861088.59	1.16786	490035.95	3861088.59	1.16685
490085.95	3861088.59	1.16222	490135.95	3861088.59	1.15471
490185.95	3861088.59	1.14686	490235.95	3861088.59	1.13305
490285.95	3861088.59	1.12542	490335.95	3861088.59	1.12332
490385.95	3861088.59	1.13222	490435.95	3861088.59	1.14144
490485.95	3861088.59	1.15040	490535.95	3861088.59	1.15836
490585.95	3861088.59	1.15703	490635.95		

3861088.59   1.14870
         490685.95   3861088.59   1.13807   490735.95
3861088.59   1.12533
         490785.95   3861088.59   1.10974   490835.95
3861088.59   1.09254
         490885.95   3861088.59   1.07445   490935.95
3861088.59   1.05666
         489020.79   3862564.85   0.16144   489043.15
3862350.21   0.19191
         489072.96   3862287.60   0.20241   488980.55
3862078.92   0.24577
         489037.19   3862822.72   0.13270   489120.66
3863016.49   0.11483
         489037.19   3863350.37   0.09449

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
                                   INCLUDING SOURCE(S):   L0000260   , L0000261 , L0000262   , L0000263   , L0000264   ,
                  L0000265   , L0000266   , L0000267   , L0000268   , L0000269 , L0000270   , L0000271   , L0000272   ,
                  L0000273   , L0000274   , L0000275   , L0000276   , L0000277 , L0000278   , L0000279   , L0000280   ,
                  L0000281   , L0000282   , L0000283   , L0000284   , L0000285 , L0000286   , L0000287   ,

                                    *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489237.26   489256.56   489275.86   489295.16   489314.46   489333.76   489353.06   489372.36   489391.66
 -

  3859957.07 | 1.30617   1.23393   1.23013   1.22038   1.20083   1.17564   1.15335   1.12225   1.08186
  3859937.65 | 1.25335   1.14810   1.14169   1.13348   1.11683   1.10243   1.08712   1.06342   1.03068

```
 3859918.23 |       1.14912      1.06560      1.06020      1.04727      1.03930
1.03051      1.01742      0.99272      0.96229
 3859898.81 |       1.08002      1.01978      1.00260      0.98522      0.97909
0.97211      0.96086      0.94154      0.91658
 3859879.39 |       1.03018      0.97689      0.99324      0.97475      0.96176
0.94803      0.91196      0.89704      0.87668
 3859859.97 |       0.96445      0.93073      0.93033      0.91412      0.90304
0.89083      0.85988      0.84835      0.82912
 3859840.55 |       0.90472      0.87344      0.85870      0.85312      0.85020
0.83919      0.81036      0.80158      0.78556
 3859821.13 |       0.85032      0.80760      0.78956      0.77958      0.78027
0.76900      0.76329      0.75475      0.74348
 3859801.71 |       0.78270      0.75219      0.74602      0.72848      0.73828
0.74964      0.72229      0.71586      0.70680
 3859782.29 |       0.73138      0.70380      0.70654      0.68712      0.69122
0.71059      0.68471      0.67833      0.66941
 3859762.87 |       0.69263      0.66745      0.66122      0.65269      0.65343
0.65222      0.64853      0.63556      0.62672
 3859743.45 |       0.65738      0.63432      0.62191      0.62111      0.62032
0.61901      0.61374      0.60431      0.59405
 3859724.03 |       0.61449      0.60403      0.59264      0.59204      0.59124
0.58839      0.58314      0.57686      0.56692
 3859704.61 |       0.58111      0.56251      0.56569      0.56517      0.56561
0.56404      0.55887      0.55134      0.54171
 3859685.19 |       0.55236      0.53763      0.54674      0.54268      0.54295
0.54003      0.53367      0.52504      0.51567
 3859665.77 |       0.52834      0.52007      0.53051      0.53884      0.53360
0.51761      0.51021      0.49942      0.48907
 3859646.35 |       0.50099      0.49329      0.49510      0.49767      0.49539
0.49230      0.48611      0.47791      0.46792
 3859626.93 |       0.47455      0.47245      0.47209      0.47436      0.47195
0.46876      0.46474      0.45782      0.44709
 3859607.51 |       0.45136      0.45303      0.45355      0.45361      0.45207
0.44882      0.44479      0.43802      0.42766
 3859588.09 |       0.43155      0.43309      0.43435      0.43420      0.43251
0.42920      0.42420      0.41756      0.40851
 3859568.67 |       0.41395      0.41447      0.41637      0.41602      0.41329
0.40992      0.40588      0.39845      0.39061
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                         ***        01:16:45

                                    PAGE 199
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                    INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
```

```
                 L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                 L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                 L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     489410.96    489430.26    489449.56    489468.86    489488.16
489507.46    489526.76    489546.06    489565.36
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3859957.07 |       1.04056      1.00234      0.94965      0.90862      0.85355
 0.81451      0.80130      0.79353      0.78128
  3859937.65 |       0.99614      0.96393      0.92266      0.89218      0.86404
 0.84051      0.83577      0.82703      0.81495
  3859918.23 |       0.92618      0.88512      0.85732      0.83964      0.81940
 0.80148      0.79659      0.78485      0.76770
  3859898.81 |       0.88299      0.84765      0.81172      0.78565      0.77027
 0.76313      0.75840      0.74119      0.73314
  3859879.39 |       0.85400      0.82699      0.77586      0.73697      0.72574
 0.73341      0.72603      0.70436      0.69934
  3859859.97 |       0.81006      0.78968      0.75851      0.72769      0.71167
 0.70801      0.69844      0.68079      0.67833
  3859840.55 |       0.76729      0.75013      0.72815      0.70694      0.68722
 0.67413      0.66289      0.65358      0.64870
  3859821.13 |       0.72805      0.70724      0.68637      0.67088      0.65482
 0.63613      0.62579      0.61934      0.61470
  3859801.71 |       0.69388      0.67608      0.65637      0.63772      0.62276
 0.60754      0.59596      0.58793      0.58555
  3859782.29 |       0.65863      0.64522      0.62840      0.60901      0.59127
 0.57904      0.56834      0.55900      0.55674
  3859762.87 |       0.61782      0.60648      0.59890      0.58406      0.56227
 0.54204      0.54095      0.53405      0.53017
  3859743.45 |       0.58371      0.57429      0.56847      0.55437      0.53550
 0.51494      0.51722      0.50920      0.50558
  3859724.03 |       0.55538      0.54471      0.53897      0.52553      0.50923
 0.49148      0.49360      0.48613      0.48125
  3859704.61 |       0.53197      0.52027      0.51322      0.50181      0.48495
 0.46969      0.47164      0.46468      0.46013
  3859685.19 |       0.50621      0.49625      0.48808      0.47715      0.46248
 0.44941      0.45120      0.44468      0.44044
  3859665.77 |       0.47987      0.47023      0.46358      0.45435      0.44165
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 ,
L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 ,
L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489584.66	489603.96	489623.26
3859957.07	0.76275	0.72517	0.68812
3859937.65	0.79608	0.77366	0.71262
3859918.23	0.75614	0.74801	0.70764
3859898.81	0.73126	0.71790	0.70212
3859879.39	0.70250	0.69156	0.68515
3859859.97	0.67819	0.66255	0.66099
3859840.55	0.64824	0.63573	0.63835
3859821.13	0.61193	0.61292	0.61283
3859801.71	0.58482	0.58356	0.58717

```
  3859782.29 |       0.55781      0.55467      0.56152
  3859762.87 |       0.52937      0.52637      0.53936
  3859743.45 |       0.50317      0.50192      0.51552
  3859724.03 |       0.48049      0.48077      0.49195
  3859704.61 |       0.45941      0.45965      0.46875
  3859685.19 |       0.43978      0.43867      0.44599
  3859665.77 |       0.42020      0.41917      0.42489
  3859646.35 |       0.40195      0.40100      0.40528
  3859626.93 |       0.38711      0.38514      0.38703
  3859607.51 |       0.37414      0.37024      0.37000
  3859588.09 |       0.35794      0.35525      0.35409
  3859568.67 |       0.34276      0.34117      0.33825
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 201
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                   INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                  L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                    *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     489260.34    489284.99    489309.64    489334.29    489358.94
489383.59    489408.24    489432.89    489457.54
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3859173.42 |       0.20884      0.20526      0.20487      0.20242      0.19771
 0.19342      0.18861      0.18347      0.17810
  3859151.85 |       0.20266      0.20146      0.19939      0.19617      0.19159
 0.18747      0.18287      0.17797      0.17283
  3859130.28 |       0.19750      0.19659      0.19375      0.19020      0.18576
 0.18142      0.17741      0.17235      0.16781
  3859108.71 |       0.19253      0.19119      0.18799      0.18414      0.17983
```

```
 0.17602      0.17219      0.16699      0.16265
  3859087.14 |       0.18741      0.18531      0.18249      0.17871      0.17452
 0.17122      0.16686      0.16225      0.15774
  3859065.57 |       0.18216      0.18003      0.17721      0.17317      0.16946
 0.16595      0.16144      0.15771      0.15373
  3859044.00 |       0.17680      0.17464      0.17184      0.16821      0.16428
 0.16091      0.15660      0.15337      0.14989
  3859022.43 |       0.17197      0.16979      0.16701      0.16346      0.15966
 0.15643      0.15294      0.14954      0.14589
  3859000.86 |       0.16674      0.16484      0.16238      0.15891      0.15523
 0.15182      0.14849      0.14556      0.14205
  3858979.29 |       0.16201      0.16009      0.15794      0.15455      0.15099
 0.14742      0.14453      0.14174      0.13867
  3858957.72 |       0.15805      0.15610      0.15339      0.15065      0.14721
 0.14378      0.14074      0.13808      0.13542
  3858936.15 |       0.15394      0.15198      0.14930      0.14635      0.14302
 0.13973      0.13683      0.13401      0.13147
  3858914.58 |       0.14999      0.14775      0.14510      0.14222      0.13928
 0.13612      0.13335      0.13065      0.12796
  3858893.01 |       0.14619      0.14368      0.14080      0.13825      0.13595
 0.13292      0.12974      0.12743      0.12484
  3858871.44 |       0.14278      0.14028      0.13718      0.13471      0.13197
 0.12933      0.12654      0.12433      0.12160
  3858849.87 |       0.13948      0.13674      0.13396      0.13130      0.12866
 0.12588      0.12346      0.12111      0.11848
  3858828.30 |       0.13582      0.13334      0.13061      0.12827      0.12548
 0.12281      0.12026      0.11801      0.11572
  3858806.73 |       0.13252      0.13006      0.12738      0.12510      0.12242
 0.11962      0.11670      0.11503      0.11283
  3858785.16 |       0.12911      0.12690      0.12450      0.12206      0.11970
 0.11702      0.11422      0.11239      0.11005
  3858763.59 |       0.12582      0.12362      0.12126      0.11890      0.11663
 0.11428      0.11204      0.10984      0.10760
  3858742.02 |       0.12221      0.12002      0.11771      0.11541      0.11324
 0.11120      0.10906      0.10739      0.10523
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 202
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                   INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
```

, L0000278   , L0000279   , L0000280   ,
                L0000281   , L0000282   , L0000283   , L0000284   , L0000285
, L0000286   , L0000287   ,

                                  *** NETWORK ID: UCART2   ; NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489482.19   489506.84   489531.49   489556.14   489580.79
489605.44   489630.09   489654.74   489679.39
 -
- -

  3859173.42 | 0.17296   0.16854   0.16461   0.16304   0.16071
 0.16018   0.16055   0.16167   0.16371
  3859151.85 | 0.16828   0.16359   0.15973   0.15731   0.15575
 0.15592   0.15580   0.15683   0.15840
  3859130.28 | 0.16342   0.15888   0.15546   0.15266   0.15142
 0.15109   0.15090   0.15183   0.15297
  3859108.71 | 0.15879   0.15438   0.15103   0.14860   0.14693
 0.14578   0.14623   0.14636   0.14779
  3859087.14 | 0.15438   0.15115   0.14715   0.14472   0.14230
 0.14109   0.14144   0.14185   0.14320
  3859065.57 | 0.15049   0.14702   0.14345   0.14034   0.13824
 0.13663   0.13688   0.13721   0.13848
  3859044.00 | 0.14644   0.14274   0.13990   0.13649   0.13438
 0.13271   0.13286   0.13311   0.13398
  3859022.43 | 0.14225   0.13898   0.13587   0.13346   0.13069
 0.12898   0.12872   0.12889   0.12968
  3859000.86 | 0.13886   0.13507   0.13233   0.12994   0.12717
 0.12542   0.12508   0.12516   0.12558
  3858979.29 | 0.13530   0.13163   0.12865   0.12627   0.12411
 0.12233   0.12160   0.12131   0.12166
  3858957.72 | 0.13189   0.12861   0.12541   0.12248   0.12118
 0.11936   0.11799   0.11792   0.11820
  3858936.15 | 0.12834   0.12544   0.12231   0.11942   0.11753
 0.11597   0.11483   0.11468   0.11461
  3858914.58 | 0.12520   0.12265   0.11961   0.11649   0.11405
 0.11272   0.11180   0.11131   0.11144
  3858893.01 | 0.12219   0.11997   0.11674   0.11394   0.11125
 0.10936   0.10891   0.10835   0.10842
  3858871.44 | 0.11904   0.11639   0.11349   0.11099   0.10857
 0.10640   0.10589   0.10526   0.10552
  3858849.87 | 0.11601   0.11345   0.11086   0.10840   0.10600
 0.10407   0.10325   0.10231   0.10249
  3858828.30 | 0.11334   0.11085   0.10809   0.10591   0.10377
 0.10160   0.10072   0.09973   0.09983

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                 INCLUDING SOURCE(S):   L0000260   , L0000261
, L0000262   , L0000263   , L0000264   ,
                  L0000265   , L0000266   , L0000267   , L0000268   , L0000269
, L0000270   , L0000271   , L0000272   ,
                  L0000273   , L0000274   , L0000275   , L0000276   , L0000277
, L0000278   , L0000279   , L0000280   ,
                  L0000281   , L0000282   , L0000283   , L0000284   , L0000285
, L0000286   , L0000287   ,

                                  *** NETWORK ID: UCART2   ; NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489704.04   489728.69   489753.34
 -
- -

  3859173.42 | 0.16559   0.16742   0.16853
  3859151.85 | 0.15988   0.16173   0.16293
  3859130.28 | 0.15443   0.15629   0.15756
  3859108.71 | 0.14958   0.15074   0.15207
  3859087.14 | 0.14459   0.14611   0.14784
  3859065.57 | 0.14016   0.14168   0.14343
  3859044.00 | 0.13560   0.13711   0.13888
  3859022.43 | 0.13124   0.13272   0.13451
  3859000.86 | 0.12677   0.12822   0.13031
  3858979.29 | 0.12278   0.12420   0.12628
  3858957.72 | 0.11955   0.12092   0.12212
  3858936.15 | 0.11588   0.11721   0.11841

```
  3858780.33 |       0.13534      0.13320      0.13027      0.12707      0.12403
 0.12148      0.11927      0.11779      0.11735
  3858755.40 |       0.13139      0.12913      0.12599      0.12284      0.11996
 0.11724      0.11552      0.11436      0.11400
  3858730.47 |       0.12721      0.12468      0.12170      0.11900      0.11630
 0.11385      0.11223      0.11136      0.11107
  3858705.54 |       0.12314      0.12071      0.11758      0.11498      0.11267
 0.11068      0.10916      0.10838      0.10851
  3858680.61 |       0.11903      0.11672      0.11313      0.11064      0.10853
 0.10716      0.10630      0.10579      0.10612
  3858655.68 |       0.11504      0.11287      0.11005      0.10740      0.10534
 0.10387      0.10328      0.10302      0.10370
  3858630.75 |       0.11102      0.10886      0.10630      0.10400      0.10218
 0.10098      0.10064      0.10059      0.10142
  3858605.82 |       0.10714      0.10501      0.10273      0.10080      0.09923
 0.09829      0.09817      0.09816      0.09910
  3858580.89 |       0.10354      0.10148      0.09935      0.09779      0.09630
 0.09561      0.09571      0.09603      0.09676
  3858555.96 |       0.10067      0.09843      0.09631      0.09481      0.09373
 0.09312      0.09311      0.09373      0.09483
  3858531.03 |       0.09705      0.09508      0.09345      0.09218      0.09133
 0.09110      0.09097      0.09198      0.09312
  3858506.10 |       0.09402      0.09219      0.09047      0.08941      0.08880
 0.08877      0.08923      0.09005      0.09121
  3858481.17 |       0.09099      0.08932      0.08766      0.08698      0.08659
 0.08674      0.08732      0.08820      0.08937
  3858456.24 |       0.08812      0.08648      0.08532      0.08485      0.08465
 0.08483      0.08552      0.08644      0.08760
  3858431.31 |       0.08540      0.08395      0.08313      0.08286      0.08285
 0.08328      0.08392      0.08463      0.08589
  3858406.38 |       0.08309      0.08170      0.08135      0.08113      0.08115
 0.08158      0.08240      0.08313      0.08424
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 205
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                   INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                  L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,
```

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	488853.04	488882.86	488912.68	488942.50	488972.32	489002.14	489031.96	489061.78	489091.60
3858904.98	0.13484	0.13535	0.13578	0.13770	0.13875	0.14070	0.14317	0.14574	0.14819
3858880.05	0.13118	0.13126	0.13194	0.13398	0.13558	0.13730	0.13970	0.14217	0.14450
3858855.12	0.12755	0.12768	0.12835	0.13047	0.13211	0.13382	0.13659	0.13897	0.14094
3858830.19	0.12417	0.12434	0.12497	0.12693	0.12816	0.13091	0.13338	0.13565	0.13709
3858805.26	0.12081	0.12142	0.12239	0.12377	0.12419	0.12769	0.13008	0.13204	0.13424
3858780.33	0.11707	0.11767	0.11876	0.12057	0.12200	0.12419	0.12669	0.12878	0.13087
3858755.40	0.11417	0.11473	0.11608	0.11788	0.11968	0.12142	0.12364	0.12564	0.12743
3858730.47	0.11181	0.11250	0.11389	0.11549	0.11725	0.11893	0.12108	0.12261	0.12431
3858705.54	0.10941	0.11037	0.11161	0.11301	0.11471	0.11672	0.11861	0.12027	0.12189
3858680.61	0.10662	0.10749	0.10907	0.11061	0.11227	0.11403	0.11604	0.11800	0.11971
3858655.68	0.10448	0.10539	0.10679	0.10830	0.11025	0.11179	0.11356	0.11509	0.11690
3858630.75	0.10229	0.10322	0.10476	0.10606	0.10795	0.10944	0.11116	0.11264	0.11419
3858605.82	0.10003	0.10114	0.10279	0.10405	0.10573	0.10718	0.10885	0.11044	0.11158
3858580.89	0.09788	0.09927	0.10088	0.10211	0.10342	0.10499	0.10661	0.10815	0.10922
3858555.96	0.09611	0.09732	0.09874	0.10007	0.10134	0.10272	0.10430	0.10578	0.10694
3858531.03	0.09439	0.09544	0.09666	0.09794	0.09933	0.10083	0.10222	0.10364	0.10473
3858506.10	0.09246	0.09347	0.09464	0.09573	0.09709	0.09870	0.10021	0.10143	0.10260
3858481.17	0.09033	0.09143	0.09268	0.09374	0.09521	0.09665	0.09812	0.09944	0.10039
3858456.24	0.08840	0.08945	0.09079	0.09195	0.09339				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***

INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 ,
L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 ,
L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489121.42	489151.24	489181.06
3858904.98	0.15023	0.15183	0.15178
3858880.05	0.14640	0.14738	0.14771
3858855.12	0.14250	0.14335	0.14356
3858830.19	0.13852	0.13994	0.13958
3858805.26	0.13557	0.13600	0.13576
3858780.33	0.13231	0.13285	0.13231
3858755.40	0.12896	0.12940	0.12919
3858730.47	0.12574	0.12609	0.12578
3858705.54	0.12265	0.12290	0.12249
3858680.61	0.12022	0.12057	0.11952
3858655.68	0.11786	0.11795	0.11683
3858630.75	0.11541	0.11558	0.11441
3858605.82	0.11270	0.11278	0.11171
3858580.89	0.10992	0.10975	0.10893
3858555.96	0.10740	0.10730	0.10657

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
                                    INCLUDING SOURCE(S):   L0000260   , L0000261 , L0000262   , L0000263   , L0000264   ,
                                     L0000265   , L0000266   , L0000267   , L0000268   , L0000269 , L0000270   , L0000271   , L0000272   ,
                                     L0000273   , L0000274   , L0000275   , L0000276   , L0000277 , L0000278   , L0000279   , L0000280   ,
                                     L0000281   , L0000282   , L0000283   , L0000284   , L0000285 , L0000286   , L0000287   ,

                                     *** NETWORK ID: UCART4   ; NETWORK TYPE: GRIDCART ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489386.10   489460.62   489535.14   489609.66   489684.18   489758.70   489833.22   489907.74   489982.26
 -

  3861675.76 | 0.32039   0.31794   0.31185   0.31251   0.31710   0.32219   0.32323   0.31935   0.31406
  3861650.62 | 0.33230   0.32854   0.32447   0.32538   0.32990   0.33398   0.33424   0.33054   0.32340
  3861625.48 | 0.34456   0.33876   0.33567   0.33716   0.34251   0.34731   0.34611   0.34296   0.33540
  3861600.34 | 0.35685   0.35285   0.34717   0.34962   0.35775   0.36357   0.35987   0.35398   0.35033
  3861575.20 | 0.37485   0.36469   0.35864   0.36281   0.37158   0.37488   0.37179   0.36470   0.36411
  3861550.06 | 0.38922   0.37792   0.37291   0.37609   0.38202   0.38527   0.38296   0.37774   0.37729
  3861524.92 | 0.40332   0.39270   0.38733   0.38940   0.39469

```
 0.39791      0.39542      0.39095      0.39004
  3861499.78 |       0.41825      0.40761      0.40186      0.40465      0.41081
 0.41156      0.40935      0.40543      0.40729
  3861474.64 |       0.43410      0.42303      0.41728      0.42127      0.42873
 0.42678      0.42452      0.42095      0.42767
  3861449.50 |       0.45002      0.43941      0.43368      0.43764      0.44297
 0.44463      0.44110      0.43762      0.44162
  3861424.36 |       0.46788      0.45730      0.45066      0.45456      0.46166
 0.46177      0.45925      0.45980      0.45933
  3861399.22 |       0.48689      0.47539      0.46824      0.47401      0.48155
 0.48094      0.47918      0.47675      0.47881
  3861374.08 |       0.50664      0.49413      0.48802      0.49477      0.50169
 0.50086      0.49964      0.49494      0.50026
  3861348.94 |       0.52770      0.51467      0.50916      0.51584      0.52202
 0.52159      0.51965      0.51606      0.52389
  3861323.80 |       0.55021      0.53845      0.53300      0.53832      0.54480
 0.54435      0.53898      0.54001      0.54996
  3861298.66 |       0.57496      0.56337      0.55865      0.56299      0.57165
 0.56879      0.56330      0.56662      0.57986
  3861273.52 |       0.60296      0.58951      0.58492      0.59147      0.59654
 0.59512      0.59097      0.59682      0.61106
  3861248.38 |       0.63542      0.61912      0.61246      0.62072      0.62388
 0.62222      0.62184      0.62914      0.64231
  3861223.24 |       0.67140      0.65350      0.64290      0.65069      0.65324
 0.65229      0.65492      0.66305      0.67606
  3861198.10 |       0.71052      0.69171      0.67748      0.68210      0.68571
 0.68501      0.68968      0.70008      0.71406
  3861172.96 |       0.75313      0.73336      0.71324      0.71772      0.72086
 0.72075      0.72785      0.74056      0.75610
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 208
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                   INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                  L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                     *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***
```

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	490056.78	490131.30	490205.82	490280.34	490354.86	490429.38	490503.90	490578.42	490652.94
3861675.76	0.31284	0.31530	0.31743	0.32108	0.32529	0.32769	0.32963	0.33074	0.33361
3861650.62	0.32290	0.32636	0.33071	0.33654	0.33673	0.33905	0.34073	0.34457	0.34863
3861625.48	0.33538	0.34044	0.34651	0.35371	0.35190	0.35434	0.35538	0.36039	0.36355
3861600.34	0.35112	0.35693	0.36384	0.36977	0.37250	0.37463	0.37513	0.37567	0.37546
3861575.20	0.36397	0.36957	0.37886	0.38349	0.38517	0.38728	0.38854	0.38987	0.38804
3861550.06	0.37802	0.38751	0.39444	0.40011	0.39974	0.40412	0.40265	0.40336	0.40129
3861524.92	0.39512	0.40362	0.40961	0.41642	0.41829	0.41837	0.41778	0.41768	0.41523
3861499.78	0.41239	0.41934	0.42840	0.43532	0.43665	0.43402	0.43335	0.43255	0.42962
3861474.64	0.42866	0.43750	0.45071	0.45563	0.45254	0.45250	0.45029	0.44794	0.44390
3861449.50	0.44641	0.46251	0.47154	0.47150	0.46861	0.46966	0.46866	0.46482	0.45897
3861424.36	0.46623	0.47861	0.49047	0.48962	0.48704	0.48840	0.48543	0.48166	0.47435
3861399.22	0.48700	0.49887	0.50772	0.50801	0.50693	0.50733	0.50353	0.49845	0.49015
3861374.08	0.51018	0.52177	0.52922	0.52828	0.52797	0.52751	0.52307	0.51663	0.50756
3861348.94	0.53503	0.54524	0.55349	0.55115	0.55062	0.54859	0.54340	0.53535	0.52627
3861323.80	0.56118	0.57029	0.57502	0.57643	0.57587	0.57188	0.56464	0.55519	0.54665
3861298.66	0.58923	0.60032	0.60095	0.60331	0.60106	0.59669	0.58780	0.57928	0.56876
3861273.52	0.61817	0.62688	0.63088	0.63186	0.62801	0.62363	0.61195	0.60222	0.59468
3861248.38	0.65053	0.65708	0.66234	0.66158	0.65685	0.65013	0.63837	0.63232	0.62346
3861223.24	0.68609	0.69210	0.69659	0.69648	0.68830	0.67928	0.66860	0.66499	0.65649
3861198.10	0.72452	0.73051	0.73448	0.73521	0.72157	0.71272	0.70251	0.69825	0.69437

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
                                    INCLUDING SOURCE(S):   L0000260   , L0000261 , L0000262   , L0000263   , L0000264   ,
                  L0000265   , L0000266   , L0000267   , L0000268   , L0000269 , L0000270   , L0000271   , L0000272   ,
                  L0000273   , L0000274   , L0000275   , L0000276   , L0000277 , L0000278   , L0000279   , L0000280   ,
                  L0000281   , L0000282   , L0000283   , L0000284   , L0000285 , L0000286   , L0000287   ,

                                     *** NETWORK ID: UCART4   ; NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

    Y-COORD | X-COORD (METERS)
    (METERS) | 490727.46   490801.98   490876.50
 -

  3861675.76 | 0.33859   0.33572   0.33389
  3861650.62 | 0.35170   0.34845   0.34573
  3861625.48 | 0.36216   0.35938   0.35510
  3861600.34 | 0.37334   0.37039   0.36455
  3861575.20 | 0.38554   0.38148   0.37481
  3861550.06 | 0.39783   0.39294   0.38558
  3861524.92 | 0.41126   0.40462   0.39725
  3861499.78 | 0.42437   0.41787   0.41003
  3861474.64 | 0.43747   0.43168   0.42418
  3861449.50 | 0.45204   0.44440   0.43946
  3861424.36 | 0.46634   0.45991   0.45478
  3861399.22 | 0.48322   0.47640   0.47360
  3861374.08 | 0.50096   0.49535   0.49436
  3861348.94 | 0.51952   0.51689   0.51791
  3861323.80 | 0.54091   0.54040   0.54450
  3861298.66 | 0.56824   0.57005   0.57362
  3861273.52 | 0.59516   0.60057   0.60521
  3861248.38 | 0.62592   0.63490   0.64033

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
                                   INCLUDING SOURCE(S):   L0000260   , L0000261 , L0000262   , L0000263   , L0000264   ,
                                      L0000265   , L0000266   , L0000267   , L0000268   , L0000269 , L0000270   , L0000271   , L0000272   ,
                                      L0000273   , L0000274   , L0000275   , L0000276   , L0000277 , L0000278   , L0000279   , L0000280   ,
                                      L0000281   , L0000282   , L0000283   , L0000284   , L0000285 , L0000286   , L0000287   ,

                                    *** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

    Y-COORD | X-COORD (METERS)
    (METERS) | 491611.20   491641.99   491672.78   491703.57   491734.36   491765.15   491795.94   491826.73   491857.52
 -

  3861693.54 | 0.31699   0.31869   0.32063   0.32105   0.32181   0.32239   0.32327   0.32412   0.32477
  3861664.09 | 0.33143   0.33290   0.33373   0.33490   0.33571   0.33631   0.33670   0.33670   0.33632
  3861634.64 | 0.34690   0.34801   0.34873   0.34960   0.35007   0.34976   0.35046   0.34987   0.34887
  3861605.19 | 0.36257   0.36374   0.36409   0.36439   0.36480   0.36422   0.36395   0.36309   0.36202
  3861575.74 | 0.37903   0.37960   0.37949   0.37952   0.37888   0.37820   0.37748   0.37616   0.37466
  3861546.29 | 0.39556   0.39585   0.39502   0.39433   0.39360   0.39243   0.39147   0.38970   0.38818
  3861516.84 | 0.41249   0.41203   0.41106   0.40963   0.40819   0.40633   0.40451   0.40275   0.40066
  3861487.39 | 0.42931   0.42829   0.42700   0.42503   0.42288   0.42056   0.41833   0.41599   0.41355

```
  3861457.94 |       0.44624      0.44441      0.44236      0.44013      0.43775
 0.43501      0.43241      0.42996      0.42722
  3861428.49 |       0.46383      0.46094      0.45865      0.45596      0.45317
 0.45029      0.44735      0.44436      0.44111
  3861399.04 |       0.48144      0.47802      0.47528      0.47193      0.46902
 0.46580      0.46230      0.45879      0.45553
  3861369.59 |       0.49888      0.49527      0.49213      0.48839      0.48489
 0.48163      0.47785      0.47433      0.47081
  3861340.14 |       0.51681      0.51307      0.50929      0.50549      0.50168
 0.49787      0.49408      0.49083      0.48655
  3861310.69 |       0.53570      0.53128      0.52716      0.52305      0.51894
 0.51514      0.51108      0.50732      0.50306
  3861281.24 |       0.55571      0.55093      0.54616      0.54204      0.53763
 0.53326      0.52893      0.52463      0.52065
  3861251.79 |       0.57670      0.57155      0.56643      0.56199      0.55697
 0.55230      0.54768      0.54339      0.53885
  3861222.34 |       0.59878      0.59325      0.58777      0.58268      0.57763
 0.57233      0.56739      0.56280      0.55825
  3861192.89 |       0.62170      0.61612      0.61093      0.60546      0.59939
 0.59372      0.58811      0.58351      0.57894
  3861163.44 |       0.64624      0.64060      0.63570      0.62946      0.62263
 0.61622      0.61121      0.60559      0.60066
  3861133.99 |       0.67138      0.66679      0.66110      0.65440      0.64709
 0.64022      0.63547      0.62810      0.62246
  3861104.54 |       0.69868      0.69289      0.68637      0.67955      0.67244
 0.66507      0.65744      0.65097      0.64490
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 211
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                 INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                  L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                  *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

Y-COORD (METERS)	X-COORD (METERS)									
	491888.31	491919.10	491949.89	491980.68	492011.47	492042.26	492073.05	492103.84	492134.63	
3861693.54	0.32457	0.32287	0.32275	0.32228	0.32164	0.32083	0.31924	0.31800	0.31680	
3861664.09	0.33622	0.33542	0.33476	0.33443	0.33359	0.33244	0.32920	0.32767	0.32637	
3861634.64	0.34803	0.34735	0.34666	0.34564	0.34464	0.34334	0.34127	0.33811	0.33590	
3861605.19	0.36094	0.35968	0.35846	0.35691	0.35526	0.35386	0.35168	0.34961	0.34682	
3861575.74	0.37356	0.37174	0.36999	0.36851	0.36638	0.36508	0.36370	0.36019	0.35839	
3861546.29	0.38632	0.38434	0.38227	0.38012	0.37866	0.37622	0.37320	0.37071	0.36858	
3861516.84	0.39907	0.39678	0.39423	0.39163	0.39016	0.38769	0.38408	0.38179	0.37914	
3861487.39	0.41148	0.40912	0.40673	0.40389	0.40145	0.39958	0.39576	0.39292	0.39030	
3861457.94	0.42444	0.42185	0.41902	0.41660	0.41376	0.41194	0.40771	0.40491	0.40213	
3861428.49	0.43785	0.43504	0.43222	0.42941	0.42638	0.42443	0.42060	0.41743	0.41429	
3861399.04	0.45226	0.44924	0.44622	0.44299	0.43978	0.43747	0.43366	0.43031	0.42721	
3861369.59	0.46756	0.46360	0.46086	0.45720	0.45380	0.45110	0.44687	0.44357	0.44072	
3861340.14	0.48359	0.47889	0.47572	0.47208	0.46848	0.46560	0.46160	0.45810	0.45463	
3861310.69	0.49962	0.49517	0.49128	0.48768	0.48410	0.48103	0.47679	0.47331	0.46939	
3861281.24	0.51643	0.51225	0.50812	0.50402	0.50071	0.49644	0.49221	0.48851	0.48460	
3861251.79	0.53408	0.52991	0.52577	0.52168	0.51787	0.51307	0.50884	0.50440	0.50025	
3861222.34	0.55317	0.54900	0.54457	0.53991	0.53531	0.53048	0.52623	0.52176	0.51709	
3861192.89	0.57410	0.56902	0.56428	0.55930	0.55437	0.54867	0.54440	0.53989	0.53516	
3861163.44	0.59546	0.59001	0.58462	0.57928	0.57428	0.56822	0.56333	0.55876	0.55342	
3861133.99	0.61624	0.61103	0.60525	0.59923	0.59357	0.58797	0.58271	0.57749	0.57177	
3861104.54	0.63855	0.63227	0.62606	0.61991	0.61413	0.60840	0.60272	0.59679	0.59092	

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 , L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 , L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 , L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 492165.42	492196.21	492227.00
3861693.54	0.31549	0.31395	0.31264
3861664.09	0.32482	0.32321	0.32170
3861634.64	0.33347	0.33266	0.33065
3861605.19	0.34366	0.34201	0.33984
3861575.74	0.35468	0.35183	0.34968
3861546.29	0.36591	0.36342	0.36059
3861516.84	0.37703	0.37422	0.37177
3861487.39	0.38788	0.38528	0.38270
3861457.94	0.39938	0.39664	0.39411
3861428.49	0.41158	0.40869	0.40583
3861399.04	0.42434	0.42129	0.41846
3861369.59	0.43747	0.43445	0.43146
3861340.14	0.45119	0.44799	0.44503
3861310.69	0.46575	0.46191	0.45877
3861281.24	0.48050	0.47668	0.47311
3861251.79	0.49615	0.49185	0.48783
3861222.34	0.51272	0.50814	0.50338
3861192.89	0.53022	0.52509	0.52002
3861163.44	0.54814	0.54266	0.53750
3861133.99	0.56638	0.56131	0.55601
3861104.54	0.58510	0.57988	0.57416

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 , L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 , L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 , L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488802.97	3861310.09	0.54785	488863.58	3861309.29	0.56106
488847.63	3861279.78	0.58103	488850.82	3861262.24	0.59670
488810.14	3861261.44	0.58600	488810.94	3861289.36	0.56395
488819.72	3861306.90	0.55230	488816.53	3861235.92	0.60817
488841.25	3861126.66	0.73608	488879.53	3861121.88	0.76404
488913.82	3861121.08	0.78522	488925.79	3861092.37	0.84060
488920.03	3861067.49	0.88508	488996.74	3861113.92	0.83139
488974.03	3861097.77	0.86286	488931.63	3860976.64	1.02031
488935.67	3861034.68	0.95286	488959.90	3861061.43	0.93182
489165.81	3861208.80	0.70980	489317.74	3861109.28	0.88022
489385.87	3861014.75	1.07116	489372.24		

3861112.69 0.86056
489420.79 3861106.73 0.85477 489436.12
3861037.74 0.98835
489488.07 3861036.89 0.98914 489473.59
3861110.99 0.83679
489431.01 3861167.20 0.75469 489662.66
3860915.95 1.37998
489644.78 3861076.07 0.89532 489659.26
3861099.06 0.84693
489735.91 3861020.71 1.02992 489700.14
3861029.23 1.00572
489708.65 3861062.44 0.92621 489779.34
3861099.06 0.85103
489835.95 3859138.59 0.15952 489885.95
3859138.59 0.15633
489935.95 3859138.59 0.15428 489985.95
3859138.59 0.14940
490035.95 3859138.59 0.14501 490085.95
3859138.59 0.14362
490135.95 3859138.59 0.14619 490185.95
3859138.59 0.14830
490235.95 3859138.59 0.15042 490285.95
3859138.59 0.14961
490335.95 3859138.59 0.14652 490385.95
3859138.59 0.13960
490435.95 3859138.59 0.13905 490485.95
3859138.59 0.13297
490535.95 3859138.59 0.12322 490585.95
3859138.59 0.11694
490635.95 3859138.59 0.10932 490685.95
3859138.59 0.10388
490735.95 3859138.59 0.10143 490785.95
3859138.59 0.09907
490835.95 3859138.59 0.09633 490885.95
3859138.59 0.09445
489835.95 3859188.59 0.17130 489885.95
3859188.59 0.16744
489935.95 3859188.59 0.16557 489985.95
3859188.59 0.16001
490035.95 3859188.59 0.15859 490085.95
3859188.59 0.16154
490135.95 3859188.59 0.16172 490185.95
3859188.59 0.16265
490235.95 3859188.59 0.16259 490285.95
3859188.59 0.16362
490335.95 3859188.59 0.16381 490385.95
3859188.59 0.15929
490435.95 3859188.59 0.15166 490485.95
3859188.59 0.13952
490535.95 3859188.59 0.13178 490585.95

3859188.59   0.12629
         490635.95   3859188.59   0.11710   490685.95
3859188.59   0.10826
         490735.95   3859188.59   0.10360   490785.95
3859188.59   0.10168
         490835.95   3859188.59   0.10472   490885.95
3859188.59   0.10398
         489835.95   3859238.59   0.18289   489885.95
3859238.59   0.18068

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
                                    INCLUDING SOURCE(S):   L0000260   , L0000261   , L0000262   , L0000263   , L0000264   ,
                 L0000265   , L0000266   , L0000267   , L0000268   , L0000269   , L0000270   , L0000271   , L0000272   ,
                 L0000273   , L0000274   , L0000275   , L0000276   , L0000277   , L0000278   , L0000279   , L0000280   ,
                 L0000281   , L0000282   , L0000283   , L0000284   , L0000285   , L0000286   , L0000287   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

```
        490535.95    3859238.59        0.14848                    490585.95
3859238.59        0.13775
        490635.95    3859238.59        0.12960                    490685.95
3859238.59        0.12783
        490735.95    3859238.59        0.12197                    490785.95
3859238.59        0.12245
        490835.95    3859238.59        0.12295                    490885.95
3859238.59        0.12233
        489835.95    3859288.59        0.19781                    489885.95
3859288.59        0.19459
        489935.95    3859288.59        0.19021                    489985.95
3859288.59        0.18225
        490035.95    3859288.59        0.18729                    490085.95
3859288.59        0.19296
        490135.95    3859288.59        0.20028                    490185.95
3859288.59        0.20610
        490235.95    3859288.59        0.20700                    490285.95
3859288.59        0.20755
        490335.95    3859288.59        0.20045                    490385.95
3859288.59        0.19135
        490435.95    3859288.59        0.17824                    490485.95
3859288.59        0.17549
        490535.95    3859288.59        0.17508                    490585.95
3859288.59        0.16177
        490635.95    3859288.59        0.15901                    490685.95
3859288.59        0.15445
        490735.95    3859288.59        0.14671                    490785.95
3859288.59        0.14667
        490835.95    3859288.59        0.14817                    490885.95
3859288.59        0.14985
        489835.95    3859338.59        0.21580                    489885.95
3859338.59        0.21355
        489935.95    3859338.59        0.20565                    489985.95
3859338.59        0.20545
        490035.95    3859338.59        0.21051                    490085.95
3859338.59        0.21950
        490135.95    3859338.59        0.22676                    490185.95
3859338.59        0.23310
        490235.95    3859338.59        0.23643                    490285.95
3859338.59        0.23442
        490335.95    3859338.59        0.22576                    490385.95
3859338.59        0.21791
        490435.95    3859338.59        0.21063                    490485.95
3859338.59        0.20201
        490535.95    3859338.59        0.19639                    490585.95
3859338.59        0.19094
        490635.95    3859338.59        0.18849                    490685.95
3859338.59        0.18241
        490735.95    3859338.59        0.17764                    490785.95
3859338.59        0.17815
```

```
         490835.95    3859338.59        0.18656                      490885.95
3859338.59        0.18929
         489835.95    3859388.59        0.23255                      489885.95
3859388.59        0.22985
         489935.95    3859388.59        0.23165                      489985.95
3859388.59        0.23183
         490035.95    3859388.59        0.23992                      490085.95
3859388.59        0.25103
         490135.95    3859388.59        0.25977                      490185.95
3859388.59        0.26523
         490235.95    3859388.59        0.26648                      490285.95
3859388.59        0.26526
         490335.95    3859388.59        0.25722                      490385.95
3859388.59        0.25030
         490435.95    3859388.59        0.24480                      490485.95
3859388.59        0.23841
         490535.95    3859388.59        0.23214                      490585.95
3859388.59        0.22855
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 215
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                    INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                 L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                 L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                 L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         490635.95    3859388.59        0.22474                      490685.95
3859388.59        0.21500
         490735.95    3859388.59        0.20646                      490785.95
```

3859388.59 0.21705
490835.95 3859388.59 0.23592 490885.95
3859388.59 0.24489
489835.95 3859438.59 0.26129 489885.95
3859438.59 0.25729
489935.95 3859438.59 0.25857 489985.95
3859438.59 0.26520
490035.95 3859438.59 0.27546 490085.95
3859438.59 0.28497
490135.95 3859438.59 0.29544 490185.95
3859438.59 0.30062
490235.95 3859438.59 0.30051 490285.95
3859438.59 0.29674
490335.95 3859438.59 0.29063 490385.95
3859438.59 0.28409
490435.95 3859438.59 0.27832 490485.95
3859438.59 0.27281
490535.95 3859438.59 0.27083 490585.95
3859438.59 0.27089
490635.95 3859438.59 0.27108 490685.95
3859438.59 0.27325
490735.95 3859438.59 0.28022 490785.95
3859438.59 0.28267
490835.95 3859438.59 0.29486 490885.95
3859438.59 0.30551
490085.95 3859488.59 0.32751 490135.95
3859488.59 0.33552
490185.95 3859488.59 0.34031 490235.95
3859488.59 0.33891
490285.95 3859488.59 0.33224 490335.95
3859488.59 0.32908
490385.95 3859488.59 0.32264 490435.95
3859488.59 0.32038
490485.95 3859488.59 0.31923 490535.95
3859488.59 0.32220
490585.95 3859488.59 0.32579 490635.95
3859488.59 0.33390
490685.95 3859488.59 0.34412 490735.95
3859488.59 0.35019
490785.95 3859488.59 0.35653 490835.95
3859488.59 0.36496
490885.95 3859488.59 0.36795 490085.95
3859538.59 0.37416
490135.95 3859538.59 0.38090 490185.95
3859538.59 0.38298
490235.95 3859538.59 0.38337 490285.95
3859538.59 0.37994
490335.95 3859538.59 0.37459 490385.95
3859538.59 0.37308
490435.95 3859538.59 0.37505 490485.95

3859538.59   0.38092
         490535.95   3859538.59   0.39083   490585.95
3859538.59   0.40169
         490635.95   3859538.59   0.41456   490685.95
3859538.59   0.42629
         490735.95   3859538.59   0.43093   490785.95
3859538.59   0.43507
         490835.95   3859538.59   0.43784   490885.95
3859538.59   0.42877
         490135.95   3859588.59   0.43395   490185.95
3859588.59   0.43043
         490235.95   3859588.59   0.43218   490285.95
3859588.59   0.43421
         490335.95   3859588.59   0.43379   490385.95
3859588.59   0.44227
         490435.95   3859588.59   0.45230   490485.95
3859588.59   0.46560
         490535.95   3859588.59   0.48077   490585.95
3859588.59   0.49709
         490635.95   3859588.59   0.50754   490685.95
3859588.59   0.51735
         490735.95   3859588.59   0.51848   490785.95
3859588.59   0.51625
         490835.95   3859588.59   0.51626   490885.95
3859588.59   0.51135
         490135.95   3859638.59   0.47360   490185.95
3859638.59   0.49427

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
                                    INCLUDING SOURCE(S):   L0000260   , L0000261 , L0000262   , L0000263   , L0000264   ,
                 L0000265   , L0000266   , L0000267   , L0000268   , L0000269 , L0000270   , L0000271   , L0000272   ,
                 L0000273   , L0000274   , L0000275   , L0000276   , L0000277 , L0000278   , L0000279   , L0000280   ,
                 L0000281   , L0000282   , L0000283   , L0000284   , L0000285 , L0000286   , L0000287   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                               ** CONC OF PM_10   IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490235.95	3859638.59	0.49351	490285.95	3859638.59	0.50673
490335.95	3859638.59	0.51684	490385.95	3859638.59	0.52969
490435.95	3859638.59	0.55200	490485.95	3859638.59	0.57138
490535.95	3859638.59	0.59076	490585.95	3859638.59	0.60755
490635.95	3859638.59	0.61459	490685.95	3859638.59	0.61753
490735.95	3859638.59	0.61506	490785.95	3859638.59	0.61316
490835.95	3859638.59	0.61463	490885.95	3859638.59	0.61656
490135.95	3859688.59	0.56555	490185.95	3859688.59	0.57299
490235.95	3859688.59	0.58431	490285.95	3859688.59	0.58825
490335.95	3859688.59	0.61818	490385.95	3859688.59	0.65351
490435.95	3859688.59	0.67463	490485.95	3859688.59	0.69857
490535.95	3859688.59	0.71551	490585.95	3859688.59	0.73183
490635.95	3859688.59	0.73608	490685.95	3859688.59	0.73424
490735.95	3859688.59	0.73057	490785.95	3859688.59	0.72886
490835.95	3859688.59	0.73137	490885.95	3859688.59	0.74457
490085.95	3859738.59	0.63502	490135.95	3859738.59	0.66411
490185.95	3859738.59	0.70994	490235.95	3859738.59	0.73505
490285.95	3859738.59	0.74065	490335.95	3859738.59	0.79464
490385.95	3859738.59	0.79145	490435.95	3859738.59	0.82616
490485.95	3859738.59	0.84678	490535.95	3859738.59	0.87003
490585.95	3859738.59	0.87722	490635.95	3859738.59	0.87977
490685.95	3859738.59	0.87996	490735.95	3859738.59	0.88076

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         490785.95    3859738.59        0.88327                        490835.95
3859738.59        0.88215
         490885.95    3859738.59        0.88211                        490085.95
3859788.59        0.74803
         490135.95    3859788.59        0.80284                        490185.95
3859788.59        0.85881
         490235.95    3859788.59        0.89670                        490285.95
3859788.59        0.93708
         490335.95    3859788.59        0.97556                        490385.95
3859788.59        1.01116
         490435.95    3859788.59        1.03939                        490485.95
3859788.59        1.04921
         490535.95    3859788.59        1.04700                        490585.95
3859788.59        1.06474
         490635.95    3859788.59        1.05539                        490685.95
3859788.59        1.05278
         490735.95    3859788.59        1.06053                        490785.95
3859788.59        1.05716
         490835.95    3859788.59        1.04586                        490885.95
3859788.59        1.01823
         490085.95    3859838.59        0.93644                        490135.95
3859838.59        1.01313
         490185.95    3859838.59        1.06790                        490235.95
3859838.59        1.11668
         490285.95    3859838.59        1.16444                        490335.95
3859838.59        1.20711
         490385.95    3859838.59        1.24164                        490435.95
3859838.59        1.26804
         490485.95    3859838.59        1.28701                        490535.95
3859838.59        1.27838
         490585.95    3859838.59        1.27562                        490635.95
3859838.59        1.27424
         490685.95    3859838.59        1.27590                        490735.95
3859838.59        1.25779
         490785.95    3859838.59        1.23188                        490835.95
3859838.59        1.21884
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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                                   PAGE 217
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                    INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                 L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
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L0000273 , L0000274 , L0000275 , L0000276 , L0000277
, L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285
, L0000286 , L0000287 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490885.95	3859838.59	1.19871	490085.95	3859888.59	1.23293
490135.95	3859888.59	1.29638	490185.95	3859888.59	1.35683
490235.95	3859888.59	1.41369	490285.95	3859888.59	1.46229
490335.95	3859888.59	1.50014	490385.95	3859888.59	1.52758
490435.95	3859888.59	1.54584	490485.95	3859888.59	1.55479
490535.95	3859888.59	1.55453	490585.95	3859888.59	1.52711
490635.95	3859888.59	1.51233	490685.95	3859888.59	1.49919
490735.95	3859888.59	1.48363	490785.95	3859888.59	1.46861
490835.95	3859888.59	1.44302	490885.95	3859888.59	1.39937
490135.95	3859938.59	1.68396	490185.95	3859938.59	1.75021
490235.95	3859938.59	1.80253	490285.95	3859938.59	1.84104
490335.95	3859938.59	1.86583	490385.95	3859938.59	1.87727
490435.95	3859938.59	1.87872	490485.95	3859938.59	1.87118
490535.95	3859938.59	1.85383	490585.95	3859938.59	1.82969
490635.95	3859938.59	1.80470	490685.95	3859938.59	1.75205
490735.95	3859938.59	1.71832	490785.95	3859938.59	1.69194
490835.95	3859938.59	1.66077	490885.95	3859938.59	1.64360
490135.95	3859988.59	2.21446	490185.95		

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3859988.59        2.26701
         490235.95    3859988.59        2.29630                    490285.95
3859988.59        2.31134
         490335.95    3859988.59        2.31024                    490385.95
3859988.59        2.29840
         490435.95    3859988.59        2.27468                    490485.95
3859988.59        2.24209
         490535.95    3859988.59        2.20268                    490585.95
3859988.59        2.15761
         490635.95    3859988.59        2.10795                    490685.95
3859988.59        2.04673
         490735.95    3859988.59        1.99771                    490785.95
3859988.59        1.94950
         490835.95    3859988.59        1.89959                    490885.95
3859988.59        1.85041
         490135.95    3860038.59        2.91826                    490185.95
3860038.59        2.93331
         490235.95    3860038.59        2.92339                    490285.95
3860038.59        2.89571
         490335.95    3860038.59        2.85077                    490385.95
3860038.59        2.79893
         490435.95    3860038.59        2.73714                    490485.95
3860038.59        2.66846
         490535.95    3860038.59        2.59465                    490585.95
3860038.59        2.51846
         490635.95    3860038.59        2.44182                    490685.95
3860038.59        2.36251
         490735.95    3860038.59        2.27893                    490785.95
3860038.59        2.20308
         490835.95    3860038.59        2.12959                    490885.95
3860038.59        2.06010
         490135.95    3860088.59        3.82934                    490185.95
3860088.59        3.76565
         490235.95    3860088.59        3.68752                    490285.95
3860088.59        3.59213
         490335.95    3860088.59        3.48700                    490385.95
3860088.59        3.37349
         490435.95    3860088.59        3.25551                    490485.95
3860088.59        3.13597
         490535.95    3860088.59        3.01543                    490585.95
3860088.59        2.89684
         490635.95    3860088.59        2.78172                    490685.95
3860088.59        2.66973
         490735.95    3860088.59        2.56117                    490785.95
3860088.59        2.45646
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***

INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 ,
L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 ,
L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490835.95	3860088.59	2.35874	490885.95	3860088.59	2.26619
490135.95	3860138.59	4.97333	490185.95	3860138.59	4.78393
490235.95	3860138.59	4.59078	490285.95	3860138.59	4.38956
490335.95	3860138.59	4.18867	490385.95	3860138.59	3.99211
490435.95	3860138.59	3.80138	490485.95	3860138.59	3.61648
490535.95	3860138.59	3.43983	490585.95	3860138.59	3.27228
490635.95	3860138.59	3.11393	490685.95	3860138.59	2.96427
490735.95	3860138.59	2.82525	490785.95	3860138.59	2.69563
490835.95	3860138.59	2.57256	490885.95	3860138.59	2.45463
490935.95	3860138.59	2.34239	490985.95	3860138.59	2.24025
491035.95	3860138.59	2.14518	490135.95	3860188.59	6.30178
490185.95	3860188.59	5.92027	490235.95	3860188.59	5.56204
490285.95	3860188.59	5.22269	490335.95	3860188.59	4.90419

490385.95 3860188.59 4.60711 490435.95
3860188.59 4.33105
490485.95 3860188.59 4.07446 490535.95
3860188.59 3.83662
490585.95 3860188.59 3.61888 490635.95
3860188.59 3.41410
490685.95 3860188.59 3.22853 490735.95
3860188.59 3.05302
490785.95 3860188.59 2.89547 490835.95
3860188.59 2.74942
490885.95 3860188.59 2.60868 490935.95
3860188.59 2.47757
490985.95 3860188.59 2.35964 491035.95
3860188.59 2.24777
491085.95 3860188.59 2.14135 491135.95
3860188.59 2.04740
490135.95 3860238.59 7.66616 490185.95
3860238.59 7.04210
490235.95 3860238.59 6.48776 490285.95
3860238.59 5.99176
490335.95 3860238.59 5.54667 490385.95
3860238.59 5.14675
490435.95 3860238.59 4.78632 490485.95
3860238.59 4.45982
490535.95 3860238.59 4.16372 490585.95
3860238.59 3.89601
490635.95 3860238.59 3.65327 490685.95
3860238.59 3.43282
490735.95 3860238.59 3.23092 490785.95
3860238.59 3.04613
490835.95 3860238.59 2.87638 490885.95
3860238.59 2.72140
490935.95 3860238.59 2.57834 490985.95
3860238.59 2.45411
491035.95 3860238.59 2.32962 491085.95
3860238.59 2.21058
491135.95 3860238.59 2.10490 490135.95
3860288.59 8.78713
490185.95 3860288.59 7.93021 490235.95
3860288.59 7.19170
490285.95 3860288.59 6.55825 490335.95
3860288.59 6.00569
490385.95 3860288.59 5.52013 490435.95
3860288.59 5.09235
490485.95 3860288.59 4.71174 490535.95
3860288.59 4.36926
490585.95 3860288.59 4.06408 490635.95
3860288.59 3.79313
490685.95 3860288.59 3.55084 490735.95
3860288.59 3.33063

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261
, L0000262 , L0000263 , L0000264 ,
L0000265 , L0000266 , L0000267 , L0000268 , L0000269
, L0000270 , L0000271 , L0000272 ,
L0000273 , L0000274 , L0000275 , L0000276 , L0000277
, L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285
, L0000286 , L0000287 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490985.95	3860288.59	2.49449	491035.95	3860288.59	2.36484
491085.95	3860288.59	2.24317	490135.95	3860338.59	9.33839
490185.95	3860338.59	8.34225	490235.95	3860338.59	7.50243
490285.95	3860338.59	6.79421	490335.95	3860338.59	6.18596
490385.95	3860338.59	5.65867	490435.95	3860338.59	5.19741
490485.95	3860338.59	4.78985	490535.95	3860338.59	4.43238
490585.95	3860338.59	4.11129	490635.95	3860338.59	3.82747
490685.95	3860338.59	3.57471	490735.95	3860338.59	3.34757
490785.95	3860338.59	3.14752	490835.95		

3860338.59 2.95850
490885.95 3860338.59 2.78768 490935.95
3860338.59 2.63058
490985.95 3860338.59 2.48614 491035.95
3860338.59 2.35631
491085.95 3860338.59 2.23612 490135.95
3860388.59 9.20974
490185.95 3860388.59 8.22205 490235.95
3860388.59 7.39238
490285.95 3860388.59 6.69045 490335.95
3860388.59 6.08883
490385.95 3860388.59 5.56684 490435.95
3860388.59 5.11063
490485.95 3860388.59 4.71252 490535.95
3860388.59 4.35938
490585.95 3860388.59 4.04677 490635.95
3860388.59 3.76612
490685.95 3860388.59 3.51882 490735.95
3860388.59 3.29336
490785.95 3860388.59 3.09183 490835.95
3860388.59 2.91156
490135.95 3860438.59 8.58507 490185.95
3860438.59 7.71360
490235.95 3860438.59 6.97338 490285.95
3860438.59 6.33860
490335.95 3860438.59 5.78685 490385.95
3860438.59 5.30741
490435.95 3860438.59 4.88677 490485.95
3860438.59 4.51553
490535.95 3860438.59 4.18875 490585.95
3860438.59 3.89516
490635.95 3860438.59 3.63243 490685.95
3860438.59 3.39861
490735.95 3860438.59 3.18963 490785.95
3860438.59 2.99718
490835.95 3860438.59 2.82763 490135.95
3860488.59 7.66571
490185.95 3860488.59 6.97102 490235.95
3860488.59 6.36146
490285.95 3860488.59 5.83100 490335.95
3860488.59 5.35804
490385.95 3860488.59 4.94514 490435.95
3860488.59 4.58352
490485.95 3860488.59 4.25265 490535.95
3860488.59 3.95543
490585.95 3860488.59 3.68952 490635.95
3860488.59 3.45404
490685.95 3860488.59 3.23684 490735.95
3860488.59 3.04483
490785.95 3860488.59 2.86948 490135.95

3860538.59   6.57066
         490185.95   3860538.59   6.08054   490235.95
3860538.59   5.62027
         490285.95   3860538.59   5.20904   490335.95
3860538.59   4.84166
         490385.95   3860538.59   4.51260   490435.95
3860538.59   4.21099
         490485.95   3860538.59   3.93803   490535.95
3860538.59   3.69907
         490585.95   3860538.59   3.45271   490635.95
3860538.59   3.24140
         490685.95   3860538.59   3.05268   490735.95
3860538.59   2.87801

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                   INCLUDING SOURCE(S):   L0000260   , L0000261
, L0000262   , L0000263   , L0000264   ,
                  L0000265   , L0000266   , L0000267   , L0000268   , L0000269
, L0000270   , L0000271   , L0000272   ,
                  L0000273   , L0000274   , L0000275   , L0000276   , L0000277
, L0000278   , L0000279   , L0000280   ,
                  L0000281   , L0000282   , L0000283   , L0000284   , L0000285
, L0000286   , L0000287   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         490785.95   3860538.59   2.72055   490135.95
3860588.59   5.46240
         490185.95   3860588.59   5.08805   490235.95
3860588.59   4.80476
         490285.95   3860588.59   4.52739   490335.95
3860588.59   4.25917
         490385.95   3860588.59   4.00863   490435.95
3860588.59   3.79582

490485.95 3860588.59 3.58752 490535.95
3860588.59 3.38266
490585.95 3860588.59 3.17115 490635.95
3860588.59 2.99912
490685.95 3860588.59 2.83803 490735.95
3860588.59 2.68957
490785.95 3860588.59 2.55009 490135.95
3860638.59 4.48254
490185.95 3860638.59 4.27496 490235.95
3860638.59 4.04964
490285.95 3860638.59 3.84930 490335.95
3860638.59 3.66981
490385.95 3860638.59 3.49380 490435.95
3860638.59 3.32257
490485.95 3860638.59 3.16381 490535.95
3860638.59 3.01942
490585.95 3860638.59 2.86979 490635.95
3860638.59 2.73420
490685.95 3860638.59 2.60378 490735.95
3860638.59 2.47699
490785.95 3860638.59 2.36342 490135.95
3860688.59 3.66422
490185.95 3860688.59 3.55073 490235.95
3860688.59 3.41739
490285.95 3860688.59 3.25155 490335.95
3860688.59 3.13402
490385.95 3860688.59 3.01364 490435.95
3860688.59 2.88988
490485.95 3860688.59 2.76626 490535.95
3860688.59 2.65635
490585.95 3860688.59 2.55091 490635.95
3860688.59 2.45011
490685.95 3860688.59 2.35511 490735.95
3860688.59 2.25843
490785.95 3860688.59 2.17117 490135.95
3860738.59 2.95138
490185.95 3860738.59 2.89322 490235.95
3860738.59 2.82744
490285.95 3860738.59 2.75370 490335.95
3860738.59 2.67233
490385.95 3860738.59 2.59006 490435.95
3860738.59 2.51910
490485.95 3860738.59 2.42671 490535.95
3860738.59 2.32677
490585.95 3860738.59 2.24371 490635.95
3860738.59 2.16760
490685.95 3860738.59 2.09957 490735.95
3860738.59 2.03251
490785.95 3860738.59 1.96913 490135.95
3860788.59 2.35435

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         490185.95    3860788.59        2.35729                      490235.95
3860788.59        2.34275
         490285.95    3860788.59        2.31348                      490335.95
3860788.59        2.26831
         490385.95    3860788.59        2.22575                      490435.95
3860788.59        2.16897
         490485.95    3860788.59        2.11634                      490535.95
3860788.59        2.04945
         490585.95    3860788.59        1.97490                      490635.95
3860788.59        1.91377
         490685.95    3860788.59        1.85927                      490735.95
3860788.59        1.81012
         490785.95    3860788.59        1.75571                      489985.95
3860838.59        1.90275
         490035.95    3860838.59        1.89579                      490085.95
3860838.59        1.90111
         490135.95    3860838.59        1.91500                      490185.95
3860838.59        1.92367
         490235.95    3860838.59        1.93116                      490285.95
3860838.59        1.93488
         490335.95    3860838.59        1.92139                      490385.95
3860838.59        1.89928
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 221
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                   INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                  L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- -

	490435.95	3860838.59	1.87412	490485.95	3860838.59	1.83920	
	490535.95	3860838.59	1.79621	490585.95	3860838.59	1.74658	
	490635.95	3860838.59	1.69708	490685.95	3860838.59	1.65373	
	490735.95	3860838.59	1.61487	490785.95	3860838.59	1.57419	
	490835.95	3860838.59	1.53228	489835.95	3860888.59	1.60979	
	489885.95	3860888.59	1.62429	489935.95	3860888.59	1.62536	
	489985.95	3860888.59	1.61885	490035.95	3860888.59	1.60677	
	490085.95	3860888.59	1.59845	490135.95	3860888.59	1.59277	
	490185.95	3860888.59	1.59270	490235.95	3860888.59	1.60177	
	490285.95	3860888.59	1.61210	490335.95	3860888.59	1.61706	
	490385.95	3860888.59	1.62043	490435.95	3860888.59	1.61627	
	490485.95	3860888.59	1.60005	490535.95	3860888.59	1.57530	
	490585.95	3860888.59	1.54361	490635.95	3860888.59	1.50795	
	490685.95	3860888.59	1.47388	490735.95	3860888.59	1.44069	
	490785.95	3860888.59	1.40564	490835.95	3860888.59	1.37476	
	490885.95	3860888.59	1.34740	490935.95	3860888.59	1.31633	
	489835.95	3860938.59	1.36061	489885.95	3860938.59	1.37870	
	489935.95	3860938.59	1.39055	489985.95	3860938.59	1.39220	
	490035.95	3860938.59	1.38490	490085.95	3860938.59	1.37238	
	490135.95	3860938.59	1.35486	490185.95	3860938.59	1.34849	
	490235.95	3860938.59	1.34841	490285.95	3860938.59	1.35597	
	490335.95	3860938.59	1.36302	490385.95	3860938.59	1.37604	
	490435.95	3860938.59	1.38479	490485.95	3860938.59	1.38407	
	490535.95	3860938.59	1.37717	490585.95	3860938.59	1.36078	
	490635.95	3860938.59	1.33950	490685.95			

```
3860938.59        1.31613
         490735.95    3860938.59        1.29082                        490785.95
3860938.59        1.26490
         490835.95    3860938.59        1.24267                        490885.95
3860938.59        1.22104
         490935.95    3860938.59        1.19509                        489835.95
3860988.59        1.16820
         489885.95    3860988.59        1.18904                        489935.95
3860988.59        1.20273
         489985.95    3860988.59        1.20914                        490035.95
3860988.59        1.20732
         490085.95    3860988.59        1.20101                        490135.95
3860988.59        1.18818
         490185.95    3860988.59        1.17825                        490235.95
3860988.59        1.16508
         490285.95    3860988.59        1.16002                        490335.95
3860988.59        1.16290
         490385.95    3860988.59        1.17111                        490435.95
3860988.59        1.18511
         490485.95    3860988.59        1.19268                        490535.95
3860988.59        1.19455
         490585.95    3860988.59        1.19224                        490635.95
3860988.59        1.18618
         490685.95    3860988.59        1.17302                        490735.95
3860988.59        1.15588
         490785.95    3860988.59        1.13865                        490835.95
3860988.59        1.12170
         490885.95    3860988.59        1.10537                        490935.95
3860988.59        1.08436
         489835.95    3861038.59        1.01424                        489885.95
3861038.59        1.03410
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 222
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                   INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                  L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
489935.95	3861038.59	1.04652	489985.95	3861038.59	1.05485
490035.95	3861038.59	1.05878	490085.95	3861038.59	1.05738
490135.95	3861038.59	1.05108	490185.95	3861038.59	1.04068
490235.95	3861038.59	1.03011	490285.95	3861038.59	1.01779
490335.95	3861038.59	1.01092	490385.95	3861038.59	1.01408
490435.95	3861038.59	1.02194	490485.95	3861038.59	1.02963
490535.95	3861038.59	1.03623	490585.95	3861038.59	1.04062
490635.95	3861038.59	1.04134	490685.95	3861038.59	1.03843
490735.95	3861038.59	1.03211	490785.95	3861038.59	1.02355
490835.95	3861038.59	1.01293	490885.95	3861038.59	0.99988
490935.95	3861038.59	0.98594	489835.95	3861088.59	0.89075
489885.95	3861088.59	0.90403	489935.95	3861088.59	0.91733
489985.95	3861088.59	0.92675	490035.95	3861088.59	0.93284
490085.95	3861088.59	0.93675	490135.95	3861088.59	0.93785
490185.95	3861088.59	0.93592	490235.95	3861088.59	0.92427
490285.95	3861088.59	0.91207	490335.95	3861088.59	0.90028
490385.95	3861088.59	0.89587	490435.95	3861088.59	0.89384
490485.95	3861088.59	0.89613	490535.95	3861088.59	0.90310
490585.95	3861088.59	0.90822	490635.95	3861088.59	0.91159
490685.95	3861088.59	0.91490	490735.95	3861088.59	0.91675

```
         490785.95    3861088.59        0.91539                      490835.95
3861088.59        0.91111
         490885.95    3861088.59        0.90428                      490935.95
3861088.59        0.89596
         489020.79    3862564.85        0.15033                      489043.15
3862350.21        0.17745
         489072.96    3862287.60        0.18662                      488980.55
3862078.92        0.22573
         489037.19    3862822.72        0.12446                      489120.66
3863016.49        0.10836
         489037.19    3863350.37        0.08972

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 223
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING6 ***
                                  INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     489237.26    489256.56    489275.86    489295.16    489314.46
489333.76    489353.06    489372.36    489391.66
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3859957.07 |       3.18539      3.22645      3.24619      3.25134      3.24075
 3.21398      3.17582      3.10918      3.02130
  3859937.65 |       2.83755      2.86729      2.87584      2.87205      2.85760
 2.83114      2.79863      2.76503      2.70153
  3859918.23 |       2.54616      2.56231      2.56282      2.55656      2.53926
 2.51506      2.48761      2.46007      2.40597
  3859898.81 |       2.28967      2.29750      2.29399      2.28560      2.27003
```

```
 2.24961      2.22729      2.20574      2.18552
  3859879.39 |       2.06523      2.06808      2.06045      2.05185      2.04015
 2.02353      2.00674      1.98976      1.97467
  3859859.97 |       1.87179      1.87288      1.86669      1.85902      1.84911
 1.83533      1.82093      1.80669      1.79458
  3859840.55 |       1.70500      1.70533      1.70085      1.69428      1.68515
 1.67388      1.66222      1.64997      1.63943
  3859821.13 |       1.56078      1.56080      1.55856      1.55295      1.54474
 1.53555      1.52551      1.51531      1.50513
  3859801.71 |       1.43540      1.43530      1.43221      1.42827      1.42123
 1.41290      1.40589      1.39685      1.38725
  3859782.29 |       1.32424      1.32437      1.32152      1.31937      1.31354
 1.30653      1.30096      1.29318      1.28434
  3859762.87 |       1.22547      1.22604      1.22449      1.22273      1.21896
 1.21430      1.20867      1.20290      1.19471
  3859743.45 |       1.13799      1.13899      1.13851      1.13723      1.13482
 1.13130      1.12688      1.12118      1.11354
  3859724.03 |       1.06065      1.06157      1.06172      1.06123      1.05973
 1.05730      1.05356      1.04793      1.04055
  3859704.61 |       0.99148      0.99303      0.99317      0.99336      0.99240
 0.99042      0.98718      0.98206      0.97488
  3859685.19 |       0.92937      0.93098      0.93147      0.93206      0.93168
 0.93040      0.92769      0.92295      0.91590
  3859665.77 |       0.87313      0.87494      0.87594      0.87651      0.87682
 0.87611      0.87381      0.86943      0.86257
  3859646.35 |       0.82261      0.82476      0.82662      0.82768      0.82841
 0.82759      0.82512      0.82049      0.81374
  3859626.93 |       0.77681      0.77927      0.78169      0.78311      0.78391
 0.78317      0.78049      0.77580      0.76920
  3859607.51 |       0.73516      0.73789      0.74042      0.74223      0.74299
 0.74226      0.73960      0.73495      0.72840
  3859588.09 |       0.69741      0.70030      0.70287      0.70475      0.70551
 0.70474      0.70210      0.69745      0.69093
  3859568.67 |       0.66271      0.66577      0.66840      0.67029      0.67100
 0.67013      0.66744      0.66279      0.65636
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 224
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING6 ***
                                 INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
```

, L0000306   , L0000307   , L0000308   ,
                L0000309   , L0000310   , L0000311   , L0000312   , L0000313
, L0000314   , L0000315   , L0000316   ,

                                *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489410.96   489430.26   489449.56   489468.86   489488.16
489507.46   489526.76   489546.06   489565.36
 -
- -

  3859957.07 | 2.92421   2.83084   2.71719   2.63301   2.52805
 2.42856   2.42778   2.42957   2.43022
  3859937.65 | 2.64418   2.58489   2.50308   2.45157   2.40779
 2.36804   2.37253   2.37944   2.37757
  3859918.23 | 2.34597   2.27416   2.22121   2.19529   2.16376
 2.12924   2.12752   2.12530   2.11055
  3859898.81 | 2.13349   2.07985   2.01640   1.97285   1.94601
 1.93034   1.92394   1.90366   1.90898
  3859879.39 | 1.96026   1.93732   1.85944   1.78468   1.76240
 1.77308   1.76051   1.72757   1.73247
  3859859.97 | 1.78226   1.76814   1.73164   1.68476   1.65293
 1.64246   1.62672   1.59917   1.60283
  3859840.55 | 1.62855   1.61548   1.59926   1.57388   1.53518
 1.51418   1.49206   1.47619   1.46955
  3859821.13 | 1.49479   1.48299   1.46771   1.44936   1.42002
 1.38929   1.36813   1.35333   1.34962
  3859801.71 | 1.37708   1.36584   1.35207   1.33553   1.31764
 1.28677   1.26675   1.25117   1.24714
  3859782.29 | 1.27409   1.26246   1.24952   1.23493   1.21883
 1.19520   1.17314   1.15768   1.15258
  3859762.87 | 1.18461   1.17293   1.15891   1.14526   1.13126
 1.10049   1.09324   1.07948   1.07318
  3859743.45 | 1.10392   1.09239   1.07884   1.06609   1.05324
 1.02498   1.02228   1.00584   0.99945
  3859724.03 | 1.03128   1.02025   1.00745   0.99540   0.98338
 0.95789   0.95822   0.94309   0.93331
  3859704.61 | 0.96561   0.95506   0.94301   0.93152   0.92057
 0.90030   0.90047   0.88374   0.87456
  3859685.19 | 0.90682   0.89638   0.88507   0.87418   0.86387
 0.84547   0.84551   0.83279   0.82423
  3859665.77 | 0.85371   0.84358   0.83268   0.82222   0.81250
 0.79816   0.79568   0.78383   0.77607
  3859646.35 | 0.80517   0.79535   0.78491   0.77497   0.76578
 0.75249   0.75032   0.74178   0.73205

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
                                 INCLUDING SOURCE(S):   L0000288   , L0000289   , L0000290   , L0000291   , L0000292   ,
                                    L0000293   , L0000294   , L0000295   , L0000296   , L0000297   , L0000298   , L0000299   , L0000300   ,
                                    L0000301   , L0000302   , L0000303   , L0000304   , L0000305   , L0000306   , L0000307   , L0000308   ,
                                    L0000309   , L0000310   , L0000311   , L0000312   , L0000313   , L0000314   , L0000315   , L0000316   ,

                                  *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489584.66   489603.96   489623.26
 - - -

```
  3859065.57 |       0.25151      0.25006      0.24726      0.24330      0.23982
 0.23600      0.23030      0.22482      0.21910
  3859044.00 |       0.24301      0.24147      0.23930      0.23563      0.23132
 0.22762      0.22211      0.21781      0.21255
  3859022.43 |       0.23565      0.23407      0.23128      0.22766      0.22413
 0.22058      0.21573      0.21137      0.20606
  3859000.86 |       0.22771      0.22624      0.22426      0.22071      0.21663
 0.21297      0.20830      0.20434      0.19989
  3858979.29 |       0.22031      0.21877      0.21696      0.21409      0.21012
 0.20572      0.20209      0.19829      0.19425
  3858957.72 |       0.21412      0.21257      0.21037      0.20796      0.20412
 0.19987      0.19617      0.19252      0.18886
  3858936.15 |       0.20800      0.20644      0.20372      0.20113      0.19737
 0.19387      0.18970      0.18597      0.18243
  3858914.58 |       0.20168      0.19988      0.19717      0.19460      0.19172
 0.18775      0.18432      0.18074      0.17711
  3858893.01 |       0.19608      0.19360      0.19120      0.18890      0.18651
 0.18268      0.17897      0.17574      0.17167
  3858871.44 |       0.19089      0.18844      0.18540      0.18312      0.18039
 0.17743      0.17350      0.17039      0.16681
  3858849.87 |       0.18590      0.18330      0.18050      0.17809      0.17545
 0.17186      0.16881      0.16562      0.16162
  3858828.30 |       0.18036      0.17837      0.17562      0.17347      0.17073
 0.16725      0.16359      0.16052      0.15738
  3858806.73 |       0.17561      0.17321      0.17094      0.16884      0.16568
 0.16213      0.15818      0.15563      0.15261
  3858785.16 |       0.17049      0.16867      0.16663      0.16441      0.16152
 0.15809      0.15429      0.15164      0.14802
  3858763.59 |       0.16595      0.16414      0.16170      0.15951      0.15718
 0.15403      0.15074      0.14732      0.14382
  3858742.02 |       0.16087      0.15865      0.15661      0.15445      0.15171
 0.14929      0.14609      0.14365      0.14026
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 227
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING6 ***
                                   INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,
```

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	489482.19	489506.84	489531.49	489556.14	489580.79	489605.44	489630.09	489654.74	489679.39	
3859173.42	0.25544	0.24993	0.24550	0.24565	0.24336	0.24352	0.24410	0.24484	0.24582	
3859151.85	0.24697	0.24033	0.23690	0.23528	0.23467	0.23542	0.23570	0.23647	0.23721	
3859130.28	0.23777	0.23218	0.22910	0.22712	0.22676	0.22715	0.22743	0.22824	0.22877	
3859108.71	0.22993	0.22447	0.22141	0.21971	0.21898	0.21778	0.21959	0.21900	0.21993	
3859087.14	0.22170	0.21808	0.21444	0.21269	0.21038	0.21010	0.21098	0.21160	0.21257	
3859065.57	0.21495	0.21113	0.20783	0.20458	0.20342	0.20190	0.20365	0.20344	0.20451	
3859044.00	0.20827	0.20426	0.20155	0.19803	0.19682	0.19528	0.19610	0.19676	0.19758	
3859022.43	0.20167	0.19726	0.19426	0.19238	0.18973	0.18899	0.18948	0.18932	0.19020	
3859000.86	0.19589	0.19107	0.18837	0.18647	0.18380	0.18220	0.18263	0.18327	0.18313	
3858979.29	0.18947	0.18544	0.18178	0.17983	0.17843	0.17680	0.17689	0.17646	0.17635	
3858957.72	0.18400	0.18033	0.17648	0.17327	0.17333	0.17166	0.17040	0.17097	0.17086	
3858936.15	0.17856	0.17456	0.17142	0.16823	0.16698	0.16625	0.16521	0.16499	0.16462	
3858914.58	0.17298	0.16993	0.16685	0.16344	0.16093	0.16038	0.15955	0.15902	0.15890	
3858893.01	0.16824	0.16550	0.16163	0.15911	0.15569	0.15384	0.15484	0.15427	0.15342	
3858871.44	0.16293	0.15979	0.15618	0.15387	0.15133	0.14852	0.14941	0.14810	0.14749	
3858849.87	0.15840	0.15478	0.15201	0.14913	0.14655	0.14461	0.14449	0.14027	0.14086	
3858828.30	0.15374	0.15075	0.14724	0.14517	0.14283	0.14000	0.13979	0.13621	0.13674	
3858806.73	0.14979	0.14614	0.14268	0.14059	0.13904	0.13504	0.13239	0.13203	0.13280	
3858785.16	0.14459	0.14172	0.13780	0.13440	0.13274					

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489704.04	489728.69	489753.34
3859173.42	0.24630	0.24654	0.24622
3859151.85	0.23749	0.23780	0.23755
3859130.28	0.22836	0.22878	0.22861
3859108.71	0.22070	0.22064	0.21986
3859087.14	0.21314	0.21275	0.21305
3859065.57	0.20547	0.20591	0.20629
3859044.00	0.19860	0.19844	0.19894
3859022.43	0.19131	0.19196	0.19254
3859000.86	0.18407	0.18414	0.18580
3858979.29	0.17735	0.17753	0.17932
3858957.72	0.17215	0.17239	0.17217
3858936.15	0.16594	0.16626	0.16478
3858914.58	0.15925	0.15894	0.15750
3858893.01	0.15307	0.15179	0.15284
3858871.44	0.14646	0.14696	0.14805

```
 0.16277      0.16010      0.15771      0.15583
  3858730.47 |       0.16846      0.16720      0.16559      0.16324      0.16016
 0.15742      0.15488      0.15272      0.15103
  3858705.54 |       0.16336      0.16200      0.15989      0.15749      0.15492
 0.15235      0.14996      0.14797      0.14659
  3858680.61 |       0.15844      0.15700      0.15353      0.15144      0.14934
 0.14742      0.14531      0.14356      0.14242
  3858655.68 |       0.15368      0.15217      0.14955      0.14665      0.14460
 0.14229      0.14038      0.13884      0.13842
  3858630.75 |       0.14801      0.14673      0.14444      0.14201      0.13963
 0.13748      0.13621      0.13489      0.13425
  3858605.82 |       0.14315      0.14144      0.13951      0.13759      0.13533
 0.13335      0.13186      0.13069      0.13024
  3858580.89 |       0.13847      0.13707      0.13478      0.13296      0.13078
 0.12898      0.12810      0.12679      0.12639
  3858555.96 |       0.13474      0.13294      0.13066      0.12850      0.12652
 0.12484      0.12362      0.12297      0.12326
  3858531.03 |       0.12993      0.12812      0.12635      0.12469      0.12288
 0.12145      0.11990      0.11996      0.12037
  3858506.10 |       0.12605      0.12429      0.12212      0.12058      0.11892
 0.11768      0.11691      0.11660      0.11713
  3858481.17 |       0.12195      0.12021      0.11807      0.11672      0.11524
 0.11418      0.11358      0.11378      0.11440
  3858456.24 |       0.11798      0.11624      0.11433      0.11312      0.11181
 0.11087      0.11079      0.11075      0.11146
  3858431.31 |       0.11417      0.11249      0.11112      0.11007      0.10893
 0.10822      0.10821      0.10780      0.10866
  3858406.38 |       0.11094      0.10898      0.10820      0.10725      0.10621
 0.10559      0.10543      0.10546      0.10597
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 230
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING6 ***
                                   INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                     *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***
```

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	488853.04	488882.86	488912.68	488942.50	488972.32	489002.14	489031.96	489061.78	489091.60
3858904.98	0.18997	0.18916	0.18766	0.18838	0.18783	0.18827	0.19016	0.19320	0.19604
3858880.05	0.18398	0.18207	0.18089	0.18187	0.18227	0.18281	0.18478	0.18731	0.19059
3858855.12	0.17772	0.17605	0.17508	0.17576	0.17635	0.17703	0.17981	0.18234	0.18538
3858830.19	0.17186	0.16989	0.16910	0.16992	0.16995	0.17228	0.17498	0.17748	0.17969
3858805.26	0.16578	0.16470	0.16426	0.16450	0.16373	0.16709	0.16980	0.17214	0.17520
3858780.33	0.15986	0.15845	0.15821	0.15929	0.16016	0.16192	0.16475	0.16761	0.17011
3858755.40	0.15451	0.15328	0.15380	0.15456	0.15621	0.15779	0.16048	0.16283	0.16510
3858730.47	0.15057	0.14959	0.14983	0.15062	0.15234	0.15397	0.15664	0.15825	0.16041
3858705.54	0.14635	0.14567	0.14599	0.14679	0.14856	0.15044	0.15296	0.15465	0.15708
3858680.61	0.14129	0.14114	0.14176	0.14315	0.14455	0.14674	0.14892	0.15157	0.15358
3858655.68	0.13758	0.13760	0.13823	0.13968	0.14172	0.14341	0.14544	0.14738	0.14977
3858630.75	0.13401	0.13376	0.13497	0.13599	0.13804	0.13972	0.14171	0.14358	0.14573
3858605.82	0.13016	0.13051	0.13187	0.13294	0.13490	0.13657	0.13850	0.14039	0.14185
3858580.89	0.12652	0.12750	0.12891	0.13002	0.13142	0.13317	0.13542	0.13722	0.13856
3858555.96	0.12359	0.12455	0.12592	0.12714	0.12854	0.13015	0.13198	0.13370	0.13539
3858531.03	0.12080	0.12174	0.12270	0.12393	0.12542	0.12746	0.12877	0.13076	0.13200
3858506.10	0.11799	0.11864	0.11962	0.12075	0.12221	0.12431	0.12602	0.12748	0.12904
3858481.17	0.11483	0.11558	0.11666	0.11778	0.11966	0.12128	0.12327	0.12474	0.12609
3858456.24	0.11154	0.11263	0.11412	0.11534	0.11687	0.11878	0.12028	0.12209	0.12303
3858431.31	0.10966	0.11046	0.11137	0.11267	0.11440	0.11596	0.11781	0.11913	0.12027

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
                                    INCLUDING SOURCE(S):   L0000288   , L0000289 , L0000290   , L0000291   , L0000292   ,
                  L0000293   , L0000294   , L0000295   , L0000296   , L0000297 , L0000298   , L0000299   , L0000300   ,
                  L0000301   , L0000302   , L0000303   , L0000304   , L0000305 , L0000306   , L0000307   , L0000308   ,
                  L0000309   , L0000310   , L0000311   , L0000312   , L0000313 , L0000314   , L0000315   , L0000316   ,

                                     *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489121.42   489151.24   489181.06
 -

  3858904.98 | 0.19924   0.20138   0.20203
  3858880.05 | 0.19313   0.19483   0.19557
  3858855.12 | 0.18764   0.18869   0.18967
  3858830.19 | 0.18135   0.18352   0.18362
  3858805.26 | 0.17716   0.17775   0.17783
  3858780.33 | 0.17204   0.17303   0.17281
  3858755.40 | 0.16742   0.16784   0.16815
  3858730.47 | 0.16258   0.16324   0.16304
  3858705.54 | 0.15793   0.15846   0.15848
  3858680.61 | 0.15421   0.15508   0.15424
  3858655.68 | 0.15096   0.15122   0.15030
  3858630.75 | 0.14736   0.14762   0.14663
  3858605.82 | 0.14336   0.14381   0.14285
  3858580.89 | 0.13939   0.13962   0.13880
  3858555.96 | 0.13599   0.13591   0.13543
  3858531.03 | 0.13281   0.13262   0.13167
  3858506.10 | 0.12983   0.12945   0.12843
  3858481.17 | 0.12647   0.12612   0.12530

```
  3861474.64 |       0.33177      0.32344      0.31812      0.31977      0.32564
 0.32688      0.32797      0.32493      0.32621
  3861449.50 |       0.34207      0.33410      0.32875      0.33038      0.33485
 0.33901      0.33902      0.33543      0.33395
  3861424.36 |       0.35360      0.34569      0.33964      0.34122      0.34720
 0.35043      0.35098      0.34983      0.34437
  3861399.22 |       0.36577      0.35721      0.35077      0.35371      0.36024
 0.36315      0.36396      0.35975      0.35581
  3861374.08 |       0.37824      0.36900      0.36326      0.36694      0.37327
 0.37617      0.37696      0.37025      0.36840
  3861348.94 |       0.39142      0.38184      0.37648      0.38017      0.38624
 0.38952      0.38919      0.38253      0.38225
  3861323.80 |       0.40537      0.39668      0.39132      0.39416      0.40073
 0.40400      0.40051      0.39641      0.39751
  3861298.66 |       0.42059      0.41201      0.40712      0.40943      0.41780
 0.41931      0.41498      0.41171      0.41514
  3861273.52 |       0.43770      0.42787      0.42303      0.42700      0.43319
 0.43553      0.43127      0.42901      0.43331
  3861248.38 |       0.45743      0.44570      0.43949      0.44479      0.44994
 0.45179      0.44917      0.44723      0.45110
  3861223.24 |       0.47912      0.46632      0.45753      0.46272      0.46770
 0.46955      0.46791      0.46595      0.47023
  3861198.10 |       0.50244      0.48901      0.47785      0.48126      0.48709
 0.48846      0.48704      0.48618      0.49184
  3861172.96 |       0.52756      0.51346      0.49849      0.50214      0.50772
 0.50867      0.50765      0.50810      0.51570
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 233
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING6 ***
                                 INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

Y-COORD (METERS)	X-COORD (METERS)								
	490056.78	490131.30	490205.82	490280.34	490354.86	490429.38	490503.90	490578.42	490652.94
3861675.76	0.24880	0.24745	0.24708	0.24976	0.25406	0.25721	0.25963	0.26104	0.26382
3861650.62	0.25522	0.25456	0.25608	0.26068	0.26216	0.26525	0.26741	0.27095	0.27494
3861625.48	0.26333	0.26386	0.26694	0.27295	0.27299	0.27619	0.27783	0.28244	0.28608
3861600.34	0.27380	0.27491	0.27897	0.28437	0.28808	0.29111	0.29232	0.29351	0.29471
3861575.20	0.28182	0.28287	0.28914	0.29382	0.29676	0.29971	0.30155	0.30363	0.30396
3861550.06	0.29060	0.29481	0.29966	0.30547	0.30681	0.31160	0.31124	0.31314	0.31388
3861524.92	0.30151	0.30521	0.30974	0.31673	0.31992	0.32113	0.32167	0.32336	0.32449
3861499.78	0.31236	0.31517	0.32255	0.32994	0.33270	0.33165	0.33241	0.33411	0.33559
3861474.64	0.32222	0.32688	0.33812	0.34416	0.34312	0.34434	0.34424	0.34540	0.34667
3861449.50	0.33302	0.34382	0.35231	0.35422	0.35348	0.35578	0.35726	0.35803	0.35844
3861424.36	0.34517	0.35350	0.36456	0.36594	0.36554	0.36842	0.36903	0.37073	0.37039
3861399.22	0.35783	0.36629	0.37516	0.37761	0.37857	0.38117	0.38199	0.38343	0.38248
3861374.08	0.37204	0.38089	0.38895	0.39052	0.39234	0.39494	0.39622	0.39725	0.39550
3861348.94	0.38725	0.39567	0.40459	0.40519	0.40724	0.40949	0.41117	0.41131	0.40894
3861323.80	0.40315	0.41135	0.41776	0.42143	0.42409	0.42587	0.42685	0.42590	0.42281
3861298.66	0.42016	0.43040	0.43397	0.43867	0.44088	0.44354	0.44393	0.44330	0.43683
3861273.52	0.43751	0.44651	0.45279	0.45699	0.45907	0.46293	0.46141	0.45867	0.45236
3861248.38	0.45695	0.46490	0.47239	0.47606	0.47876	0.48181	0.48000	0.47848	0.46828
3861223.24	0.47824	0.48630	0.49372	0.49899	0.50049	0.50244	0.50054	0.49846	0.48544
3861198.10	0.50106	0.50965	0.51745	0.52488	0.52352	0.52577	0.52239	0.51640	0.50414
3861172.96	0.52714	0.53362	0.54286	0.54773	0.54789	0.54762	0.54359	0.53494	0.52401

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 490727.46	490801.98	490876.50
3861675.76	0.26898	0.26863	0.27017
3861650.62	0.27906	0.27891	0.28016
3861625.48	0.28691	0.28775	0.28795
3861600.34	0.29549	0.29672	0.29574
3861575.20	0.30506	0.30579	0.30408
3861550.06	0.31481	0.31514	0.31260
3861524.92	0.32559	0.32454	0.32150
3861499.78	0.33608	0.33505	0.33083
3861474.64	0.34644	0.34563	0.34062
3861449.50	0.35783	0.35461	0.35049
3861424.36	0.36854	0.36523	0.35935
3861399.22	0.38083	0.37568	0.37003
3861374.08	0.39295	0.38703	0.38108
3861348.94	0.40462	0.39916	0.39315
3861323.80	0.41729	0.41142	0.40646
3861298.66	0.43322	0.42711	0.42072
3861273.52	0.44698	0.44197	0.43617
3861248.38	0.46198	0.45855	0.45395
3861223.24	0.47923	0.47687	0.47379
3861198.10	0.49777	0.49628	0.49495
3861172.96	0.51795	0.51731	0.51890

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 , L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 , L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 , L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	491611.20	491641.99	491672.78	491703.57	491734.36	491765.15	491795.94	491826.73	491857.52
3861693.54	0.24700	0.24763	0.24867	0.24875	0.24932	0.24999	0.25112	0.25244	0.25377
3861664.09	0.25600	0.25679	0.25732	0.25837	0.25938	0.26046	0.26158	0.26257	0.26341
3861634.64	0.26619	0.26709	0.26796	0.26920	0.27036	0.27111	0.27284	0.27369	0.27433
3861605.19	0.27703	0.27844	0.27947	0.28070	0.28222	0.28312	0.28441	0.28532	0.28611
3861575.74	0.28911	0.29053	0.29166	0.29308	0.29414	0.29527	0.29646	0.29720	0.29779
3861546.29	0.30195	0.30361	0.30458	0.30579	0.30708	0.30806	0.30922	0.30971	0.31036
3861516.84	0.31580	0.31728	0.31848	0.31938	0.32029	0.32086	0.32140	0.32193	0.32208
3861487.39	0.33020	0.33156	0.33276	0.33340	0.33384	0.33406	0.33427	0.33425	0.33402
3861457.94	0.34521	0.34613	0.34684	0.34733	0.34759	0.34742	0.34723	0.34700	0.34638
3861428.49	0.36109	0.36124	0.36178	0.36185	0.36169				

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 0.36128      0.36065      0.35981      0.35858
  3861399.04 |       0.37712      0.37681      0.37690      0.37629      0.37588
 0.37502      0.37373      0.37226      0.37084
  3861369.59 |       0.39292      0.39232      0.39192      0.39081      0.38970
 0.38861      0.38689      0.38523      0.38343
  3861340.14 |       0.40883      0.40793      0.40678      0.40540      0.40383
 0.40207      0.40017      0.39860      0.39601
  3861310.69 |       0.42508      0.42338      0.42173      0.41987      0.41786
 0.41595      0.41367      0.41155      0.40888
  3861281.24 |       0.44173      0.43950      0.43709      0.43505      0.43263
 0.43010      0.42750      0.42483      0.42237
  3861251.79 |       0.45861      0.45587      0.45300      0.45056      0.44750
 0.44465      0.44174      0.43906      0.43611
  3861222.34 |       0.47582      0.47262      0.46933      0.46625      0.46313
 0.45970      0.45652      0.45360      0.45067
  3861192.89 |       0.49320      0.48988      0.48679      0.48338      0.47936
 0.47564      0.47193      0.46905      0.46617
  3861163.44 |       0.51148      0.50809      0.50529      0.50124      0.49661
 0.49231      0.48920      0.48552      0.48242
  3861133.99 |       0.52986      0.52744      0.52402      0.51965      0.51470
 0.51010      0.50734      0.50222      0.49862
  3861104.54 |       0.54976      0.54640      0.54237      0.53802      0.53339
 0.52849      0.52334      0.51916      0.51532
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 236
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING6 ***
                                   INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                    *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     491888.31    491919.10    491949.89    491980.68    492011.47
```

```
492042.26    492073.05    492103.84    492134.63
 - - -
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
  L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
  L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
  L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)		
	492165.42	492196.21	492227.00
3861693.54	0.25900	0.25894	0.25902
3861664.09	0.26791	0.26773	0.26756
3861634.64	0.27611	0.27653	0.27582
3861605.19	0.28545	0.28504	0.28408
3861575.74	0.29529	0.29371	0.29265
3861546.29	0.30507	0.30369	0.30193
3861516.84	0.31448	0.31271	0.31120
3861487.39	0.32335	0.32171	0.32003
3861457.94	0.33257	0.33075	0.32908
3861428.49	0.34221	0.34023	0.33823
3861399.04	0.35215	0.35003	0.34808
3861369.59	0.36227	0.36020	0.35813
3861340.14	0.37280	0.37060	0.36861
3861310.69	0.38398	0.38125	0.37914
3861281.24	0.39523	0.39257	0.39013
3861251.79	0.40720	0.40418	0.40140
3861222.34	0.41993	0.41674	0.41337
3861192.89	0.43348	0.42988	0.42632
3861163.44	0.44741	0.44360	0.44007
3861133.99	0.46172	0.45843	0.45492
3861104.54	0.47667	0.47342	0.46969

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***

INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 , L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 , L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 , L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488802.97	3861310.09	0.42383	488863.58	3861309.29	0.42442
488847.63	3861279.78	0.44117	488850.82	3861262.24	0.45218
488810.14	3861261.44	0.45178	488810.94	3861289.36	0.43463
488819.72	3861306.90	0.42425	488816.53	3861235.92	0.46755
488841.25	3861126.66	0.56276	488879.53	3861121.88	0.57114
488913.82	3861121.08	0.57598	488925.79	3861092.37	0.61315
488920.03	3861067.49	0.65143	488996.74	3861113.92	0.58800
488974.03	3861097.77	0.61477	488931.63	3860976.64	0.74140
488935.67	3861034.68	0.69575	488959.90	3861061.43	0.67139
489165.81	3861208.80	0.50965	489317.74	3861109.28	0.60116
489385.87	3861014.75	0.69798	489372.24	3861112.69	0.58799
489420.79	3861106.73	0.58265	489436.12	3861037.74	0.65208

```
        489488.07    3861036.89        0.65078                    489473.59
3861110.99        0.57066
        489431.01    3861167.20        0.52762                    489662.66
3860915.95        0.84035
        489644.78    3861076.07        0.60426                    489659.26
3861099.06        0.57821
        489735.91    3861020.71        0.67103                    489700.14
3861029.23        0.66196
        489708.65    3861062.44        0.62113                    489779.34
3861099.06        0.57717
        489835.95    3859138.59        0.22844                    489885.95
3859138.59        0.22387
        489935.95    3859138.59        0.22077                    489985.95
3859138.59        0.20997
        490035.95    3859138.59        0.20725                    490085.95
3859138.59        0.21016
        490135.95    3859138.59        0.21885                    490185.95
3859138.59        0.22641
        490235.95    3859138.59        0.23160                    490285.95
3859138.59        0.23039
        490335.95    3859138.59        0.22376                    490385.95
3859138.59        0.21105
        490435.95    3859138.59        0.20593                    490485.95
3859138.59        0.19473
        490535.95    3859138.59        0.18004                    490585.95
3859138.59        0.17171
        490635.95    3859138.59        0.16258                    490685.95
3859138.59        0.15658
        490735.95    3859138.59        0.15491                    490785.95
3859138.59        0.15375
        490835.95    3859138.59        0.15265                    490885.95
3859138.59        0.15352
        489835.95    3859188.59        0.24858                    489885.95
3859188.59        0.24312
        489935.95    3859188.59        0.24106                    489985.95
3859188.59        0.22929
        490035.95    3859188.59        0.23197                    490085.95
3859188.59        0.24137
        490135.95    3859188.59        0.24746                    490185.95
3859188.59        0.25255
        490235.95    3859188.59        0.25317                    490285.95
3859188.59        0.25145
        490335.95    3859188.59        0.24679                    490385.95
3859188.59        0.23667
        490435.95    3859188.59        0.22353                    490485.95
3859188.59        0.20587
        490535.95    3859188.59        0.19551                    490585.95
3859188.59        0.18978
        490635.95    3859188.59        0.17931                    490685.95
3859188.59        0.16856
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
489935.95	3859238.59	0.26264	489985.95	3859238.59	0.24987
490035.95	3859238.59	0.25764	490085.95	3859238.59	0.27692
490135.95	3859238.59	0.28650	490185.95	3859238.59	0.28728
490235.95	3859238.59	0.28414	490285.95	3859238.59	0.27701
490335.95	3859238.59	0.26742	490385.95	3859238.59	0.25830
490435.95	3859238.59	0.24735	490485.95	3859238.59	0.23916
490535.95	3859238.59	0.22477	490585.95	3859238.59	0.21366
490635.95	3859238.59	0.20679	490685.95		

3859238.59 0.20877
490735.95 3859238.59 0.20717 490785.95
3859238.59 0.21277
490835.95 3859238.59 0.21961 490885.95
3859238.59 0.22245
489835.95 3859288.59 0.29540 489885.95
3859288.59 0.29170
489935.95 3859288.59 0.28895 489985.95
3859288.59 0.27769
490035.95 3859288.59 0.29477 490085.95
3859288.59 0.31121
490135.95 3859288.59 0.32165 490185.95
3859288.59 0.32244
490235.95 3859288.59 0.31593 490285.95
3859288.59 0.31009
490335.95 3859288.59 0.29715 490385.95
3859288.59 0.28379
490435.95 3859288.59 0.26789 490485.95
3859288.59 0.26704
490535.95 3859288.59 0.27163 490585.95
3859288.59 0.26257
490635.95 3859288.59 0.26692 490685.95
3859288.59 0.26803
490735.95 3859288.59 0.26424 490785.95
3859288.59 0.27133
490835.95 3859288.59 0.27755 490885.95
3859288.59 0.27956
489835.95 3859338.59 0.32880 489885.95
3859338.59 0.32785
489935.95 3859338.59 0.32306 489985.95
3859338.59 0.33051
490035.95 3859338.59 0.34455 490085.95
3859338.59 0.35838
490135.95 3859338.59 0.36435 490185.95
3859338.59 0.36442
490235.95 3859338.59 0.35491 490285.95
3859338.59 0.34669
490335.95 3859338.59 0.33395 490385.95
3859338.59 0.32515
490435.95 3859338.59 0.32055 490485.95
3859338.59 0.31819
490535.95 3859338.59 0.32036 490585.95
3859338.59 0.32506
490635.95 3859338.59 0.33470 490685.95
3859338.59 0.33722
490735.95 3859338.59 0.33735 490785.95
3859338.59 0.34091
490835.95 3859338.59 0.35292 490885.95
3859338.59 0.34990
489835.95 3859388.59 0.36182 489885.95

3859388.59 0.36481
  489935.95 3859388.59 0.37635 489985.95
3859388.59 0.38410
  490035.95 3859388.59 0.39855 490085.95
3859388.59 0.41063
  490135.95 3859388.59 0.41320 490185.95
3859388.59 0.40976
  490235.95 3859388.59 0.40306 490285.95
3859388.59 0.39222
  490335.95 3859388.59 0.38420 490385.95
3859388.59 0.38203
  490435.95 3859388.59 0.38596 490485.95
3859388.59 0.39227
  490535.95 3859388.59 0.40060 490585.95
3859388.59 0.41347

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490635.95	3859388.59	0.42134	490685.95	3859388.59	0.41506
490735.95	3859388.59	0.40152	490785.95	3859388.59	0.41390
490835.95	3859388.59	0.43476	490885.95	3859388.59	0.43707

489835.95 3859438.59 0.41839 489885.95 3859438.59 0.42211
489935.95 3859438.59 0.43261 489985.95 3859438.59 0.44715
490035.95 3859438.59 0.45941 490085.95 3859438.59 0.46448
490135.95 3859438.59 0.46627 490185.95 3859438.59 0.46363
490235.95 3859438.59 0.45896 490285.95 3859438.59 0.45586
490335.95 3859438.59 0.45121 490385.95 3859438.59 0.45568
490435.95 3859438.59 0.46672 490485.95 3859438.59 0.47972
490535.95 3859438.59 0.49631 490585.95 3859438.59 0.51175
490635.95 3859438.59 0.52084 490685.95 3859438.59 0.52567
490735.95 3859438.59 0.52907 490785.95 3859438.59 0.51966
490835.95 3859438.59 0.52534 490885.95 3859438.59 0.53066
490085.95 3859488.59 0.53024 490135.95 3859488.59 0.53105
490185.95 3859488.59 0.53170 490235.95 3859488.59 0.53406
490285.95 3859488.59 0.53661 490335.95 3859488.59 0.54984
490385.95 3859488.59 0.56191 490435.95 3859488.59 0.57413
490485.95 3859488.59 0.59358 490535.95 3859488.59 0.61268
490585.95 3859488.59 0.62517 490635.95 3859488.59 0.63487
490685.95 3859488.59 0.64068 490735.95 3859488.59 0.63765
490785.95 3859488.59 0.63482 490835.95 3859488.59 0.63754
490885.95 3859488.59 0.63624 490085.95 3859538.59 0.60943
490135.95 3859538.59 0.61381 490185.95 3859538.59 0.62202
490235.95 3859538.59 0.63633 490285.95 3859538.59 0.65410
490335.95 3859538.59 0.67257 490385.95 3859538.59 0.69403
490435.95 3859538.59 0.71623 490485.95 3859538.59 0.73538
490535.95 3859538.59 0.74844 490585.95 3859538.59 0.76022

```
         490635.95    3859538.59        0.76826                      490685.95
3859538.59        0.77233
         490735.95    3859538.59        0.76819                      490785.95
3859538.59        0.76597
         490835.95    3859538.59        0.76472                      490885.95
3859538.59        0.74933
         490135.95    3859588.59        0.72176                      490185.95
3859588.59        0.74183
         490235.95    3859588.59        0.76811                      490285.95
3859588.59        0.79876
         490335.95    3859588.59        0.82593                      490385.95
3859588.59        0.85632
         490435.95    3859588.59        0.88189                      490485.95
3859588.59        0.90189
         490535.95    3859588.59        0.91677                      490585.95
3859588.59        0.92528
         490635.95    3859588.59        0.92459                      490685.95
3859588.59        0.92667
         490735.95    3859588.59        0.92037                      490785.95
3859588.59        0.91162
         490835.95    3859588.59        0.90566                      490885.95
3859588.59        0.89231
         490135.95    3859638.59        0.85984                      490185.95
3859638.59        0.90140
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 241
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING6 ***
                                   INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
```

Y-COORD (M) CONC

- - - -

```
3859788.59        1.71078
         490135.95    3859788.59        1.78482                        490185.95
3859788.59        1.84628
         490235.95    3859788.59        1.89241                        490285.95
3859788.59        1.92151
         490335.95    3859788.59        1.93955                        490385.95
3859788.59        1.94537
         490435.95    3859788.59        1.94906                        490485.95
3859788.59        1.94045
         490535.95    3859788.59        1.92517                        490585.95
3859788.59        1.90126
         490635.95    3859788.59        1.86393                        490685.95
3859788.59        1.82616
         490735.95    3859788.59        1.79468                        490785.95
3859788.59        1.75633
         490835.95    3859788.59        1.71322                        490885.95
3859788.59        1.65707
         490085.95    3859838.59        2.28006                        490135.95
3859838.59        2.34646
         490185.95    3859838.59        2.38984                        490235.95
3859838.59        2.41314
         490285.95    3859838.59        2.41375                        490335.95
3859838.59        2.39816
         490385.95    3859838.59        2.37636                        490435.95
3859838.59        2.34918
         490485.95    3859838.59        2.31528                        490535.95
3859838.59        2.27819
         490585.95    3859838.59        2.23207                        490635.95
3859838.59        2.18092
         490685.95    3859838.59        2.12667                        490735.95
3859838.59        2.06948
         490785.95    3859838.59        2.00549                        490835.95
3859838.59        1.94690
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***       01:16:45

                                  PAGE 242
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING6 ***
                                  INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
```

, L0000314   , L0000315   , L0000316   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490885.95	3859838.59	1.88573	490085.95	3859888.59	3.05889
490135.95	3859888.59	3.08526	490185.95	3859888.59	3.08616
490235.95	3859888.59	3.05769	490285.95	3859888.59	3.00961
490335.95	3859888.59	2.95111	490385.95	3859888.59	2.88484
490435.95	3859888.59	2.81086	490485.95	3859888.59	2.73637
490535.95	3859888.59	2.66488	490585.95	3859888.59	2.59307
490635.95	3859888.59	2.51095	490685.95	3859888.59	2.42788
490735.95	3859888.59	2.34530	490785.95	3859888.59	2.26397
490835.95	3859888.59	2.18617	490885.95	3859888.59	2.10507
490135.95	3859938.59	4.03590	490185.95	3859938.59	3.94923
490235.95	3859938.59	3.84291	490285.95	3859938.59	3.72020
490335.95	3859938.59	3.58789	490385.95	3859938.59	3.45608
490435.95	3859938.59	3.32054	490485.95	3859938.59	3.18862
490535.95	3859938.59	3.07484	490585.95	3859938.59	2.96216
490635.95	3859938.59	2.84200	490685.95	3859938.59	2.73268
490735.95	3859938.59	2.61987	490785.95	3859938.59	2.51115
490835.95	3859938.59	2.40774	490885.95	3859938.59	2.30520
490135.95	3859988.59	5.20749	490185.95	3859988.59	4.98520
490235.95	3859988.59	4.76336	490285.95	3859988.59	4.52631

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         490335.95    3859988.59        4.29520                      490385.95
3859988.59        4.06125
         490435.95    3859988.59        3.84548                      490485.95
3859988.59        3.64980
         490535.95    3859988.59        3.47287                      490585.95
3859988.59        3.31195
         490635.95    3859988.59        3.16109                      490685.95
3859988.59        3.02068
         490735.95    3859988.59        2.87648                      490785.95
3859988.59        2.74004
         490835.95    3859988.59        2.61152                      490885.95
3859988.59        2.48583
         490135.95    3860038.59        6.54220                      490185.95
3860038.59        6.11108
         490235.95    3860038.59        5.70704                      490285.95
3860038.59        5.32477
         490335.95    3860038.59        4.98397                      490385.95
3860038.59        4.64897
         490435.95    3860038.59        4.34789                      490485.95
3860038.59        4.07825
         490535.95    3860038.59        3.84168                      490585.95
3860038.59        3.62309
         490635.95    3860038.59        3.41418                      490685.95
3860038.59        3.24043
         490735.95    3860038.59        3.09049                      490785.95
3860038.59        2.92863
         490835.95    3860038.59        2.77732                      490885.95
3860038.59        2.63146
         490135.95    3860088.59        7.85559                      490185.95
3860088.59        7.19869
         490235.95    3860088.59        6.59046                      490285.95
3860088.59        6.05418
         490335.95    3860088.59        5.56998                      490385.95
3860088.59        5.14214
         490435.95    3860088.59        4.76127                      490485.95
3860088.59        4.41590
         490535.95    3860088.59        4.12381                      490585.95
3860088.59        3.86251
         490635.95    3860088.59        3.61856                      490685.95
3860088.59        3.40848
         490735.95    3860088.59        3.22237                      490785.95
3860088.59        3.05204
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 243
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 , L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 , L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 , L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490835.95	3860088.59	2.88239	490885.95	3860088.59	2.72241
490135.95	3860138.59	8.83151	490185.95	3860138.59	7.95981
490235.95	3860138.59	7.18517	490285.95	3860138.59	6.52863
490335.95	3860138.59	5.95744	490385.95	3860138.59	5.45243
490435.95	3860138.59	5.00329	490485.95	3860138.59	4.61892
490535.95	3860138.59	4.29051	490585.95	3860138.59	3.99303
490635.95	3860138.59	3.72644	490685.95	3860138.59	3.48608
490735.95	3860138.59	3.27590	490785.95	3860138.59	3.09573
490835.95	3860138.59	2.91791	490885.95	3860138.59	2.74432
490935.95	3860138.59	2.58697	490985.95	3860138.59	2.45173
491035.95	3860138.59	2.32947	490135.95	3860188.59	9.19381
490185.95	3860188.59	8.22111	490235.95	3860188.59	7.37743
490285.95	3860188.59	6.66103	490335.95	3860188.59	6.04761
490385.95	3860188.59	5.51845	490435.95	3860188.59	5.05966
490485.95	3860188.59	4.65504	490535.95		

3860188.59 4.30777
490585.95 3860188.59 4.00946 490635.95
3860188.59 3.72898
490685.95 3860188.59 3.48908 490735.95
3860188.59 3.26198
490785.95 3860188.59 3.06910 490835.95
3860188.59 2.89360
490885.95 3860188.59 2.72109 490935.95
3860188.59 2.56377
490985.95 3860188.59 2.42791 491035.95
3860188.59 2.29926
491085.95 3860188.59 2.17740 491135.95
3860188.59 2.07413
490135.95 3860238.59 8.89410 490185.95
3860238.59 7.96732
490235.95 3860238.59 7.16630 490285.95
3860238.59 6.48035
490335.95 3860238.59 5.89166 490385.95
3860238.59 5.38218
490435.95 3860238.59 4.94306 490485.95
3860238.59 4.54966
490535.95 3860238.59 4.21187 490585.95
3860238.59 3.91467
490635.95 3860238.59 3.64955 490685.95
3860238.59 3.41244
490735.95 3860238.59 3.19675 490785.95
3860238.59 3.00133
490835.95 3860238.59 2.82326 490885.95
3860238.59 2.66296
490935.95 3860238.59 2.51583 490985.95
3860238.59 2.39511
491035.95 3860238.59 2.26622 491085.95
3860238.59 2.14204
491135.95 3860238.59 2.03560 490135.95
3860288.59 8.16931
490185.95 3860288.59 7.36725 490235.95
3860288.59 6.69083
490285.95 3860288.59 6.08055 490335.95
3860288.59 5.55172
490385.95 3860288.59 5.10103 490435.95
3860288.59 4.69848
490485.95 3860288.59 4.34424 490535.95
3860288.59 4.02572
490585.95 3860288.59 3.74481 490635.95
3860288.59 3.49884
490685.95 3860288.59 3.28039 490735.95
3860288.59 3.08015
490785.95 3860288.59 2.90003 490835.95
3860288.59 2.73120
490885.95 3860288.59 2.58118 490935.95

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
                                 INCLUDING SOURCE(S):   L0000288   , L0000289 , L0000290   , L0000291   , L0000292   ,
                  L0000293   , L0000294   , L0000295   , L0000296   , L0000297 , L0000298   , L0000299   , L0000300   ,
                  L0000301   , L0000302   , L0000303   , L0000304   , L0000305 , L0000306   , L0000307   , L0000308   ,
                  L0000309   , L0000310   , L0000311   , L0000312   , L0000313 , L0000314   , L0000315   , L0000316   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

490985.95 3860338.59 2.22017 491035.95
3860338.59 2.11095
491085.95 3860338.59 2.00886 490135.95
3860388.59 6.09027
490185.95 3860388.59 5.66152 490235.95
3860388.59 5.27923
490285.95 3860388.59 4.91533 490335.95
3860388.59 4.58069
490385.95 3860388.59 4.27164 490435.95
3860388.59 3.99282
490485.95 3860388.59 3.74283 490535.95
3860388.59 3.50998
490585.95 3860388.59 3.29823 490635.95
3860388.59 3.10100
490685.95 3860388.59 2.92712 490735.95
3860388.59 2.76244
490785.95 3860388.59 2.61431 490835.95
3860388.59 2.48138
490135.95 3860438.59 5.00295 490185.95
3860438.59 4.74411
490235.95 3860438.59 4.48712 490285.95
3860438.59 4.23828
490335.95 3860438.59 3.99557 490385.95
3860438.59 3.77451
490435.95 3860438.59 3.56551 490485.95
3860438.59 3.36879
490535.95 3860438.59 3.18856 490585.95
3860438.59 3.01603
490635.95 3860438.59 2.85532 490685.95
3860438.59 2.70907
490735.95 3860438.59 2.57559 490785.95
3860438.59 2.44636
490835.95 3860438.59 2.33364 490135.95
3860488.59 4.09884
490185.95 3860488.59 3.93433 490235.95
3860488.59 3.75822
490285.95 3860488.59 3.59633 490335.95
3860488.59 3.42875
490385.95 3860488.59 3.27549 490435.95
3860488.59 3.13576
490485.95 3860488.59 2.98726 490535.95
3860488.59 2.84437
490585.95 3860488.59 2.71037 490635.95
3860488.59 2.58899
490685.95 3860488.59 2.46792 490735.95
3860488.59 2.36006
490785.95 3860488.59 2.25700 490135.95
3860538.59 3.34795
490185.95 3860538.59 3.27643 490235.95
3860538.59 3.14865

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490785.95	3860538.59	2.05579	490135.95	3860588.59	2.73672
490185.95	3860588.59	2.65002	490235.95	3860588.59	2.62175
490285.95	3860588.59	2.56962	490335.95	3860588.59	2.49879
490385.95	3860588.59	2.42326	490435.95	3860588.59	2.37329
490485.95	3860588.59	2.31290	490535.95	3860588.59	2.22890
490585.95	3860588.59	2.12252	490635.95		

3860588.59 2.05277
490685.95 3860588.59 1.98328 490735.95 3860588.59 1.91707
490785.95 3860588.59 1.85104 490135.95 3860638.59 2.23244
490185.95 3860638.59 2.22070 490235.95 3860638.59 2.18770
490285.95 3860638.59 2.15963 490335.95 3860638.59 2.13104
490385.95 3860638.59 2.08815 490435.95 3860638.59 2.03524
490485.95 3860638.59 1.98340 490535.95 3860638.59 1.93723
490585.95 3860638.59 1.87623 490635.95 3860638.59 1.82292
490685.95 3860638.59 1.76813 490735.95 3860638.59 1.71086
490785.95 3860638.59 1.66150 490135.95 3860688.59 1.81498
490185.95 3860688.59 1.84911 490235.95 3860688.59 1.83434
490285.95 3860688.59 1.80464 490335.95 3860688.59 1.80722
490385.95 3860688.59 1.79493 490435.95 3860688.59 1.76634
490485.95 3860688.59 1.72679 490535.95 3860688.59 1.69171
490585.95 3860688.59 1.65429 490635.95 3860688.59 1.61617
490685.95 3860688.59 1.57958 490735.95 3860688.59 1.53728
490785.95 3860688.59 1.50128 490135.95 3860738.59 1.50345
490185.95 3860738.59 1.49439 490235.95 3860738.59 1.49989
490285.95 3860738.59 1.51177 490335.95 3860738.59 1.52166
490385.95 3860738.59 1.52769 490435.95 3860738.59 1.53777
490485.95 3860738.59 1.51783 490535.95 3860738.59 1.48225
490585.95 3860738.59 1.45514 490635.95 3860738.59 1.42861
490685.95 3860738.59 1.40539 490735.95 3860738.59 1.38014
490785.95 3860738.59 1.35630 490135.95 3860788.59 1.27669
490185.95 3860788.59 1.26934 490235.95 3860788.59 1.26674
490285.95 3860788.59 1.27131 490335.95

3860788.59   1.27846
         490385.95   3860788.59   1.29479   490435.95
3860788.59   1.30272
         490485.95   3860788.59   1.31148   490535.95
3860788.59   1.30243
         490585.95   3860788.59   1.28025   490635.95
3860788.59   1.26334
         490685.95   3860788.59   1.24701   490735.95
3860788.59   1.23165
         490785.95   3860788.59   1.20861   489985.95
3860838.59   1.11744
         490035.95   3860838.59   1.12300   490085.95
3860838.59   1.12428
         490135.95   3860838.59   1.12005   490185.95
3860838.59   1.10731
         490235.95   3860838.59   1.09718   490285.95
3860838.59   1.09446
         490335.95   3860838.59   1.09374   490385.95
3860838.59   1.09941

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING6 ***
                                  INCLUDING SOURCE(S):   L0000288   , L0000289
, L0000290   , L0000291   , L0000292   ,
                  L0000293   , L0000294   , L0000295   , L0000296   , L0000297
, L0000298   , L0000299   , L0000300   ,
                  L0000301   , L0000302   , L0000303   , L0000304   , L0000305
, L0000306   , L0000307   , L0000308   ,
                  L0000309   , L0000310   , L0000311   , L0000312   , L0000313
, L0000314   , L0000315   , L0000316   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         490435.95   3860838.59   1.11182   490485.95
3860838.59   1.12219

490535.95 3860838.59 1.12702 490585.95
3860838.59 1.12389
490635.95 3860838.59 1.11643 490685.95
3860838.59 1.10909
490735.95 3860838.59 1.10124 490785.95
3860838.59 1.08828
490835.95 3860838.59 1.07128 489835.95
3860888.59 0.93135
489885.95 3860888.59 0.94944 489935.95
3860888.59 0.96601
489985.95 3860888.59 0.97995 490035.95
3860888.59 0.98854
490085.95 3860888.59 0.99367 490135.95
3860888.59 0.99081
490185.95 3860888.59 0.98151 490235.95
3860888.59 0.97188
490285.95 3860888.59 0.96254 490335.95
3860888.59 0.95512
490385.95 3860888.59 0.95575 490435.95
3860888.59 0.96172
490485.95 3860888.59 0.96858 490535.95
3860888.59 0.97548
490585.95 3860888.59 0.97994 490635.95
3860888.59 0.98104
490685.95 3860888.59 0.98091 490735.95
3860888.59 0.97817
490785.95 3860888.59 0.97038 490835.95
3860888.59 0.96271
490885.95 3860888.59 0.95541 490935.95
3860888.59 0.94274
489835.95 3860938.59 0.81778 489885.95
3860938.59 0.83140
489935.95 3860938.59 0.84783 489985.95
3860938.59 0.86178
490035.95 3860938.59 0.87155 490085.95
3860938.59 0.87715
490135.95 3860938.59 0.87524 490185.95
3860938.59 0.87399
490235.95 3860938.59 0.86857 490285.95
3860938.59 0.86152
490335.95 3860938.59 0.85133 490385.95
3860938.59 0.84720
490435.95 3860938.59 0.84614 490485.95
3860938.59 0.84678
490535.95 3860938.59 0.85118 490585.95
3860938.59 0.85541
490635.95 3860938.59 0.86003 490685.95
3860938.59 0.86449
490735.95 3860938.59 0.86689 490785.95
3860938.59 0.86688

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         490835.95    3860938.59        0.86721                        490885.95
3860938.59        0.86558
         490935.95    3860938.59        0.85782                        489835.95
3860988.59        0.72789
         489885.95    3860988.59        0.73923                        489935.95
3860988.59        0.75215
         489985.95    3860988.59        0.76445                        490035.95
3860988.59        0.77360
         490085.95    3860988.59        0.78110                        490135.95
3860988.59        0.78412
         490185.95    3860988.59        0.78691                        490235.95
3860988.59        0.78188
         490285.95    3860988.59        0.77577                        490335.95
3860988.59        0.76889
         490385.95    3860988.59        0.76186                        490435.95
3860988.59        0.75862
         490485.95    3860988.59        0.75427                        490535.95
3860988.59        0.75184
         490585.95    3860988.59        0.75313                        490635.95
3860988.59        0.75779
         490685.95    3860988.59        0.76202                        490735.95
3860988.59        0.76592
         490785.95    3860988.59        0.77042                        490835.95
3860988.59        0.77448
         490885.95    3860988.59        0.77759                        490935.95
3860988.59        0.77499
         489835.95    3861038.59        0.65365                        489885.95
3861038.59        0.66218
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 247
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING6 ***
                                  INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
489935.95	3861038.59	0.67106	489985.95	3861038.59	0.68122
490035.95	3861038.59	0.69064	490085.95	3861038.59	0.69788
490135.95	3861038.59	0.70300	490185.95	3861038.59	0.70576
490235.95	3861038.59	0.70709	490285.95	3861038.59	0.70323
490335.95	3861038.59	0.69786	490385.95	3861038.59	0.69417
490435.95	3861038.59	0.68956	490485.95	3861038.59	0.68314
490535.95	3861038.59	0.67738	490585.95	3861038.59	0.67395
490635.95	3861038.59	0.67311	490685.95	3861038.59	0.67500
490735.95	3861038.59	0.67893	490785.95	3861038.59	0.68440
490835.95	3861038.59	0.69009	490885.95	3861038.59	0.69442
490935.95	3861038.59	0.69743	489835.95	3861088.59	0.59230
489885.95	3861088.59	0.59558	489935.95	3861088.59	0.60271
489985.95	3861088.59	0.61117	490035.95	3861088.59	0.61970
490085.95	3861088.59	0.62788	490135.95	3861088.59	0.63524
490185.95	3861088.59	0.64190	490235.95	3861088.59	0.64203
490285.95	3861088.59	0.64109	490335.95	3861088.59	0.63773
490385.95	3861088.59	0.63571	490435.95	3861088.59	0.63042
490485.95	3861088.59	0.62416	490535.95	3861088.59	0.61905
490585.95	3861088.59	0.61259	490635.95	3861088.59	0.60725
490685.95	3861088.59	0.60558	490735.95	3861088.59	0.60714
490785.95	3861088.59	0.61055	490835.95	3861088.59	0.61521
490885.95	3861088.59	0.62031	490935.95		

3861088.59   0.62548
         489020.79   3862564.85   0.12997   489043.15
3862350.21   0.15117
         489072.96   3862287.60   0.15821   488980.55
3862078.92   0.18955
         489037.19   3862822.72   0.10923   489120.66
3863016.49   0.09612
         489037.19   3863350.37   0.08063

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
                                   INCLUDING SOURCE(S):   L0000317   , L0000318 , L0000319   , L0000320   , L0000321   ,
                L0000322   , L0000323   , L0000324   , L0000325   , L0000326 , L0000327   , L0000328   , L0000329   ,
                L0000330   , L0000331   , L0000332   , L0000333   , L0000334 , L0000335   , L0000336   , L0000337   ,
                L0000338   , L0000339   , L0000340   , L0000341   , L0000342 , L0000343   , L0000344   , . . .   ,

                                    *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489237.26   489256.56   489275.86   489295.16   489314.46
489333.76   489353.06   489372.36   489391.66
 -
- -

  3859957.07 | 1.60431   1.61216   1.61822   1.61843   1.61472
 1.60723   1.60079   1.59066   1.54664
  3859937.65 | 1.44934   1.45247   1.45451   1.45178   1.44517
 1.43691   1.42648   1.41578   1.39861
  3859918.23 | 1.31541   1.31614   1.31524   1.30865   1.30115
 1.29137   1.28002   1.26740   1.25062
  3859898.81 | 1.20170   1.20029   1.19676   1.18905   1.17975
 1.16949   1.15928   1.14719   1.13723
  3859879.39 | 1.10229   1.09972   1.09553   1.08698   1.07682
 1.06718   1.05678   1.04732   1.03888

```
  3859859.97 |       1.01440      1.01079      1.00465      0.99576      0.98588
 0.97695      0.96800      0.96035      0.95339
  3859840.55 |       0.93655      0.93167      0.92431      0.91603      0.90709
 0.89904      0.89114      0.88523      0.87969
  3859821.13 |       0.86729      0.86102      0.85310      0.84514      0.83763
 0.83018      0.82397      0.81899      0.81561
  3859801.71 |       0.80522      0.79816      0.79149      0.78359      0.77745
 0.77199      0.76566      0.76230      0.76046
  3859782.29 |       0.74962      0.74290      0.73697      0.72888      0.72380
 0.71976      0.71438      0.71193      0.71087
  3859762.87 |       0.70038      0.69394      0.68816      0.68113      0.67587
 0.67153      0.66847      0.66503      0.66468
  3859743.45 |       0.65626      0.65019      0.64441      0.63856      0.63351
 0.62991      0.62716      0.62544      0.62530
  3859724.03 |       0.61600      0.61092      0.60566      0.60044      0.59609
 0.59278      0.59097      0.59056      0.59054
  3859704.61 |       0.57999      0.57471      0.57078      0.56617      0.56296
 0.56073      0.55917      0.55880      0.55940
  3859685.19 |       0.54711      0.54273      0.53977      0.53606      0.53347
 0.53146      0.52995      0.52976      0.53019
  3859665.77 |       0.51774      0.51418      0.51157      0.50924      0.50691
 0.50487      0.50345      0.50278      0.50249
  3859646.35 |       0.49068      0.48730      0.48441      0.48259      0.48033
 0.47920      0.47882      0.47884      0.47861
  3859626.93 |       0.46591      0.46286      0.45960      0.45826      0.45671
 0.45596      0.45633      0.45690      0.45634
  3859607.51 |       0.44307      0.44045      0.43801      0.43662      0.43556
 0.43531      0.43585      0.43600      0.43581
  3859588.09 |       0.42150      0.41939      0.41767      0.41658      0.41556
 0.41540      0.41576      0.41633      0.41648
  3859568.67 |       0.40214      0.39945      0.39853      0.39764      0.39703
 0.39706      0.39784      0.39821      0.39817
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 249
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                   INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,
```

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	489410.96	489430.26	489449.56	489468.86	489488.16	489507.46	489526.76	489546.06	489565.36	
3859957.07	1.51043	1.49032	1.46085	1.44681	1.42022	1.40040	1.40962	1.41478	1.40895	
3859937.65	1.36652	1.34146	1.32652	1.32268	1.32661	1.32544	1.33577	1.33638	1.32851	
3859918.23	1.21590	1.18901	1.18415	1.19055	1.19181	1.19278	1.19742	1.19151	1.17730	
3859898.81	1.12194	1.09249	1.07724	1.07512	1.07839	1.08453	1.08508	1.07038	1.06248	
3859879.39	1.03275	1.02918	0.99085	0.97854	0.98323	0.99691	0.99388	0.97562	0.96739	
3859859.97	0.94860	0.94716	0.94227	0.92526	0.92341	0.92755	0.92100	0.90341	0.89737	
3859840.55	0.87681	0.87556	0.87570	0.87531	0.87009	0.86197	0.85089	0.83918	0.83098	
3859821.13	0.81403	0.81191	0.81159	0.81137	0.80977	0.79606	0.78518	0.77600	0.76773	
3859801.71	0.75952	0.75910	0.75769	0.75631	0.75288	0.74455	0.73317	0.72168	0.71564	
3859782.29	0.71096	0.71118	0.71079	0.70766	0.70262	0.69726	0.68705	0.67279	0.66699	
3859762.87	0.66579	0.66654	0.66737	0.66543	0.65872	0.64433	0.64266	0.63272	0.62596	
3859743.45	0.62607	0.62707	0.62804	0.62561	0.61898	0.60442	0.60569	0.59570	0.58744	
3859724.03	0.59115	0.59175	0.59230	0.58955	0.58297	0.57158	0.56988	0.56066	0.55199	
3859704.61	0.56033	0.56030	0.56027	0.55752	0.55052	0.54002	0.53772	0.52940	0.52262	
3859685.19	0.53112	0.53142	0.53098	0.52789	0.52112	0.51169	0.50887	0.50220	0.49448	
3859665.77	0.50339	0.50355	0.50368	0.50034	0.49436	0.48685	0.48326	0.47579	0.46915	
3859646.35	0.47871	0.47871	0.47855	0.47540	0.46954	0.46254	0.45939	0.45208	0.44538	
3859626.93	0.45619	0.45580	0.45569	0.45255	0.44744	0.44125	0.43721	0.43085	0.42554	
3859607.51	0.43584	0.43549	0.43467	0.43212	0.42775					

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***

INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 , L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 , L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489584.66	489603.96	489623.26
3859957.07	1.38657	1.33429	1.26382
3859937.65	1.30920	1.28362	1.20923
3859918.23	1.16422	1.15567	1.11052
3859898.81	1.05606	1.04491	1.02398
3859879.39	0.96711	0.95409	0.94443
3859859.97	0.89261	0.87583	0.87033
3859840.55	0.82566	0.80868	0.80710
3859821.13	0.76059	0.75628	0.75177
3859801.71	0.71024	0.70323	0.70266
3859782.29	0.66522	0.65608	0.65863
3859762.87	0.62097	0.61231	0.62126
3859743.45	0.58161	0.57450	0.58234
3859724.03	0.54738	0.54336	0.54745
3859704.61	0.51808	0.51412	0.51559
3859685.19	0.49007	0.48552	0.48632

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 0.16193      0.15863      0.15588      0.15292
  3859022.43 |       0.16182      0.16219      0.16183      0.16099      0.15930
 0.15748      0.15479      0.15175      0.14865
  3859000.86 |       0.15702      0.15755      0.15768      0.15668      0.15503
 0.15287      0.15026      0.14759      0.14444
  3858979.29 |       0.15280      0.15328      0.15370      0.15264      0.15090
 0.14863      0.14623      0.14360      0.14075
  3858957.72 |       0.14929      0.14973      0.14954      0.14899      0.14721
 0.14494      0.14226      0.13968      0.13722
  3858936.15 |       0.14570      0.14610      0.14582      0.14494      0.14331
 0.14085      0.13829      0.13555      0.13314
  3858914.58 |       0.14221      0.14230      0.14205      0.14122      0.13963
 0.13728      0.13474      0.13188      0.12932
  3858893.01 |       0.13884      0.13881      0.13818      0.13747      0.13635
 0.13401      0.13097      0.12853      0.12604
  3858871.44 |       0.13585      0.13578      0.13494      0.13419      0.13263
 0.13036      0.12770      0.12531      0.12263
  3858849.87 |       0.13295      0.13261      0.13198      0.13102      0.12928
 0.12700      0.12449      0.12196      0.11925
  3858828.30 |       0.12985      0.12956      0.12896      0.12811      0.12621
 0.12387      0.12119      0.11865      0.11637
  3858806.73 |       0.12694      0.12668      0.12590      0.12501      0.12324
 0.12066      0.11761      0.11563      0.11332
  3858785.16 |       0.12398      0.12391      0.12324      0.12215      0.12052
 0.11798      0.11499      0.11281      0.11041
  3858763.59 |       0.12105      0.12094      0.12036      0.11919      0.11754
 0.11518      0.11272      0.11011      0.10785
  3858742.02 |       0.11799      0.11777      0.11710      0.11595      0.11428
 0.11213      0.10965      0.10758      0.10539
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 252
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                   INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                    *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***
```

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489482.19	489506.84	489531.49	489556.14	489580.79	489605.44	489630.09	489654.74	489679.39
3859173.42	0.17992	0.17663	0.17408	0.17288	0.17063	0.16877	0.16675	0.16468	0.16298
3859151.85	0.17458	0.17114	0.16853	0.16689	0.16528	0.16419	0.16201	0.16002	0.15811
3859130.28	0.16912	0.16592	0.16368	0.16175	0.16059	0.15933	0.15710	0.15519	0.15295
3859108.71	0.16388	0.16079	0.15869	0.15721	0.15576	0.15393	0.15243	0.15010	0.14831
3859087.14	0.15905	0.15696	0.15430	0.15289	0.15103	0.14902	0.14786	0.14559	0.14386
3859065.57	0.15468	0.15243	0.15010	0.14829	0.14649	0.14459	0.14323	0.14131	0.13964
3859044.00	0.15029	0.14763	0.14610	0.14388	0.14240	0.14047	0.13929	0.13732	0.13547
3859022.43	0.14563	0.14352	0.14183	0.14060	0.13850	0.13664	0.13519	0.13328	0.13137
3859000.86	0.14186	0.13915	0.13773	0.13655	0.13465	0.13284	0.13145	0.12963	0.12768
3858979.29	0.13803	0.13541	0.13383	0.13270	0.13128	0.12954	0.12789	0.12603	0.12392
3858957.72	0.13437	0.13204	0.13021	0.12858	0.12805	0.12637	0.12438	0.12267	0.12075
3858936.15	0.13046	0.12862	0.12684	0.12516	0.12414	0.12283	0.12108	0.11946	0.11750
3858914.58	0.12712	0.12553	0.12381	0.12198	0.12048	0.11942	0.11794	0.11628	0.11448
3858893.01	0.12382	0.12257	0.12060	0.11912	0.11738	0.11597	0.11502	0.11342	0.11168
3858871.44	0.12046	0.11869	0.11716	0.11589	0.11450	0.11283	0.11203	0.11036	0.10898
3858849.87	0.11724	0.11562	0.11421	0.11300	0.11173	0.11029	0.10922	0.10754	0.10620
3858828.30	0.11442	0.11276	0.11122	0.11030	0.10924	0.10766	0.10663	0.10500	0.10361
3858806.73	0.11162	0.10984	0.10843	0.10754	0.10668	0.10514	0.10379	0.10218	0.10111
3858785.16	0.10859	0.10712	0.10566	0.10461	0.10377	0.10254	0.10129	0.09938	0.09862
3858763.59	0.10584	0.10441	0.10308	0.10207	0.10124	0.09986	0.09891	0.09713	0.09613

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):   L0000317   , L0000318
, L0000319   , L0000320   , L0000321   ,
                  L0000322   , L0000323   , L0000324   , L0000325   , L0000326
, L0000327   , L0000328   , L0000329   ,
                  L0000330   , L0000331   , L0000332   , L0000333   , L0000334
, L0000335   , L0000336   , L0000337   ,
                  L0000338   , L0000339   , L0000340   , L0000341   , L0000342
, L0000343   , L0000344   , . . .   ,

                                  *** NETWORK ID: UCART2   ; NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489704.04   489728.69   489753.34
 -
- -

  3859173.42 | 0.16131   0.16008   0.15915
  3859151.85 | 0.15608   0.15485   0.15372
  3859130.28 | 0.15108   0.14984   0.14885
  3859108.71 | 0.14672   0.14471   0.14368
  3859087.14 | 0.14206   0.14058   0.13978
  3859065.57 | 0.13812   0.13650   0.13568
  3859044.00 | 0.13398   0.13241   0.13157
  3859022.43 | 0.12992   0.12848   0.12761
  3859000.86 | 0.12594   0.12439   0.12387
  3858979.29 | 0.12233   0.12093   0.12027
  3858957.72 | 0.11943   0.11806   0.11664
  3858936.15 | 0.11622   0.11479   0.11347
  3858914.58 | 0.11305   0.11174   0.11045
  3858893.01 | 0.11029   0.10883   0.10766
  3858871.44 | 0.10765   0.10582   0.10476
  3858849.87 | 0.10481   0.10332   0.10228
  3858828.30 | 0.10226   0.10091   0.09962
  3858806.73 | 0.09990   0.09850   0.09751

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
                                   INCLUDING SOURCE(S):   L0000317   , L0000318 , L0000319   , L0000320   , L0000321   ,
                                      L0000322   , L0000323   , L0000324   , L0000325   , L0000326 , L0000327   , L0000328   , L0000329   ,
                                      L0000330   , L0000331   , L0000332   , L0000333   , L0000334 , L0000335   , L0000336   , L0000337   ,
                                      L0000338   , L0000339   , L0000340   , L0000341   , L0000342 , L0000343   , L0000344   , . . .   ,

                                    *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

    Y-COORD | X-COORD (METERS)
    (METERS) | 488584.66   488614.48   488644.30   488674.12   488703.94   488733.76   488763.58   488793.40   488823.22
 -

  3858904.98 | 0.14932   0.14836   0.14695   0.14585   0.14458   0.14315   0.14061   0.14023   0.13856
  3858880.05 | 0.14475   0.14372   0.14244   0.14145   0.13981   0.13758   0.13650   0.13528   0.13502
  3858855.12 | 0.14034   0.13949   0.13802   0.13676   0.13557   0.13280   0.13362   0.13140   0.13036
  3858830.19 | 0.13621   0.13525   0.13355   0.13094   0.13165   0.13059   0.12925   0.12797   0.12655
  3858805.26 | 0.13136   0.12896   0.12972   0.12871   0.12789   0.12645   0.12515   0.12365   0.12248
  3858780.33 | 0.12817   0.12731   0.12615   0.12505   0.12364   0.12250   0.12096   0.11952   0.11852
  3858755.40 | 0.12473   0.12389   0.12263   0.12153   0.12013   0.11844   0.11711   0.11583   0.11487
  3858730.47 | 0.12126   0.12035   0.11916   0.11821   0.11691   0.11529   0.11386   0.11267   0.11160

```
  3858705.54 |       0.11791      0.11710      0.11585      0.11490      0.11369
 0.11250      0.11076      0.10944      0.10870
  3858680.61 |       0.11465      0.11388      0.11213      0.11084      0.10978
 0.10893      0.10781      0.10658      0.10595
  3858655.68 |       0.11140      0.11070      0.10966      0.10823      0.10683
 0.10549      0.10452      0.10352      0.10294
  3858630.75 |       0.10815      0.10761      0.10637      0.10500      0.10363
 0.10242      0.10164      0.10055      0.10038
  3858605.82 |       0.10482      0.10432      0.10311      0.10211      0.10079
 0.09960      0.09895      0.09794      0.09776
  3858580.89 |       0.10168      0.10116      0.09996      0.09911      0.09772
 0.09679      0.09599      0.09545      0.09509
  3858555.96 |       0.09954      0.09858      0.09726      0.09616      0.09512
 0.09395      0.09311      0.09281      0.09281
  3858531.03 |       0.09621      0.09535      0.09452      0.09357      0.09262
 0.09170      0.09074      0.09075      0.09084
  3858506.10 |       0.09365      0.09280      0.09171      0.09062      0.08988
 0.08908      0.08870      0.08843      0.08871
  3858481.17 |       0.09106      0.09023      0.08896      0.08828      0.08737
 0.08684      0.08640      0.08627      0.08653
  3858456.24 |       0.08843      0.08755      0.08663      0.08601      0.08528
 0.08456      0.08426      0.08421      0.08457
  3858431.31 |       0.08605      0.08508      0.08438      0.08382      0.08324
 0.08274      0.08234      0.08199      0.08258
  3858406.38 |       0.08398      0.08298      0.08260      0.08191      0.08124
 0.08071      0.08058      0.08031      0.08083
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 255
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                   *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

Y-COORD (METERS)	X-COORD (METERS)								
	488853.04	488882.86	488912.68	488942.50	488972.32	489002.14	489031.96	489061.78	489091.60
3858904.98	0.13659	0.13662	0.13568	0.13612	0.13483	0.13511	0.13581	0.13676	0.13785
3858880.05	0.13291	0.13200	0.13132	0.13167	0.13123	0.13131	0.13225	0.13318	0.13418
3858855.12	0.12901	0.12795	0.12693	0.12768	0.12760	0.12775	0.12906	0.13002	0.13073
3858830.19	0.12532	0.12419	0.12326	0.12365	0.12330	0.12467	0.12577	0.12687	0.12714
3858805.26	0.12144	0.12082	0.12015	0.11999	0.11899	0.12128	0.12254	0.12325	0.12436
3858780.33	0.11703	0.11649	0.11617	0.11654	0.11660	0.11768	0.11909	0.12016	0.12102
3858755.40	0.11382	0.11311	0.11307	0.11357	0.11420	0.11487	0.11616	0.11694	0.11774
3858730.47	0.11098	0.11040	0.11061	0.11098	0.11168	0.11240	0.11367	0.11402	0.11480
3858705.54	0.10820	0.10802	0.10806	0.10840	0.10906	0.11023	0.11129	0.11184	0.11254
3858680.61	0.10515	0.10475	0.10521	0.10580	0.10662	0.10765	0.10861	0.10967	0.11055
3858655.68	0.10266	0.10238	0.10283	0.10337	0.10459	0.10548	0.10625	0.10688	0.10786
3858630.75	0.10005	0.09994	0.10066	0.10112	0.10236	0.10302	0.10397	0.10453	0.10528
3858605.82	0.09760	0.09771	0.09860	0.09911	0.10018	0.10086	0.10171	0.10244	0.10291
3858580.89	0.09510	0.09569	0.09663	0.09719	0.09782	0.09879	0.09959	0.10025	0.10068
3858555.96	0.09311	0.09353	0.09432	0.09518	0.09584	0.09658	0.09735	0.09808	0.09852
3858531.03	0.09122	0.09152	0.09225	0.09298	0.09393	0.09478	0.09541	0.09603	0.09649
3858506.10	0.08911	0.08949	0.09012	0.09084	0.09174	0.09272	0.09352	0.09394	0.09453
3858481.17	0.08684	0.08730	0.08824	0.08893	0.08995	0.09084	0.09148	0.09207	0.09242
3858456.24	0.08465	0.08529	0.08638	0.08723	0.08826	0.08906	0.08961	0.09016	0.09059
3858431.31	0.08325	0.08392	0.08459	0.08563	0.08648	0.08724	0.08779	0.08831	0.08865
3858406.38	0.08167	0.08222	0.08297	0.08394	0.08485	0.08561	0.08613	0.08646	0.08674

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 ,
L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 ,
L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 ,
L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489121.42	489151.24	489181.06
3858904.98	0.13862	0.13962	0.13954
3858880.05	0.13505	0.13532	0.13588
3858855.12	0.13143	0.13165	0.13210
3858830.19	0.12751	0.12853	0.12849
3858805.26	0.12476	0.12485	0.12517
3858780.33	0.12174	0.12199	0.12207
3858755.40	0.11858	0.11889	0.11931
3858730.47	0.11557	0.11590	0.11630
3858705.54	0.11279	0.11303	0.11334
3858680.61	0.11051	0.11094	0.11076
3858655.68	0.10831	0.10859	0.10841
3858630.75	0.10606	0.10650	0.10628
3858605.82	0.10364	0.10395	0.10397
3858580.89	0.10109	0.10125	0.10155
3858555.96	0.09873	0.09911	0.09953
3858531.03	0.09668	0.09699	0.09729
3858506.10	0.09482	0.09500	0.09523
3858481.17	0.09274	0.09304	0.09330
3858456.24	0.09074	0.09113	0.09127
3858431.31	0.08890	0.08908	0.08931
3858406.38	0.08693	0.08730	0.08757

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 , L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 , L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489386.10	489460.62	489535.14	489609.66	489684.18	489758.70	489833.22	489907.74	489982.26
3861675.76	0.45959	0.46163	0.45364	0.44710	0.44392	0.44922	0.45629	0.45921	0.45881
3861650.62	0.48271	0.48290	0.47810	0.47118	0.46771	0.47210	0.47890	0.48279	0.47903
3861625.48	0.50716	0.50408	0.50064	0.49402	0.49196	0.49859	0.50393	0.50943	0.50449
3861600.34	0.53241	0.53317	0.52442	0.51882	0.52190	0.53148	0.53343	0.53455	0.53598
3861575.20	0.56931	0.55893	0.54887	0.54584	0.55039	0.55658	0.56078	0.56006	0.56633
3861550.06	0.60051	0.58832	0.57963	0.57400	0.57357	0.58110	0.58796	0.59097	0.59638
3861524.92	0.63226	0.62194	0.61184	0.60334	0.60220	0.61119	0.61892	0.62342	0.62654
3861499.78	0.66691	0.65717	0.64559	0.63790	0.63902	0.64486	0.65430	0.65970	0.66634
3861474.64	0.70487	0.69499	0.68273	0.67694	0.68150	0.68353	0.69403	0.69958	0.71376
3861449.50	0.74461	0.73665	0.72382	0.71746	0.71864				

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490429.38    490503.90    490578.42    490652.94
 - - -
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 , L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 , L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	490727.46	490801.98	490876.50
3861675.76	0.47403	0.47205	0.47362
3861650.62	0.49977	0.49792	0.49874
3861625.48	0.52228	0.52187	0.52048
3861600.34	0.54697	0.54684	0.54291
3861575.20	0.57440	0.57281	0.56719
3861550.06	0.60308	0.60019	0.59269
3861524.92	0.63482	0.62861	0.61993
3861499.78	0.66701	0.66044	0.64912
3861474.64	0.70006	0.69366	0.68044
3861449.50	0.73666	0.72471	0.71314
3861424.36	0.77321	0.76078	0.74467
3861399.22	0.81508	0.79795	0.78138
3861374.08	0.85843	0.83866	0.81983
3861348.94	0.90259	0.88265	0.86128
3861323.80	0.95105	0.92809	0.90592
3861298.66	1.00958	0.98278	0.95251
3861273.52	1.06399	1.03563	1.00090
3861248.38	1.12236	1.09211	1.05312
3861223.24	1.18648	1.15134	1.10762
3861198.10	1.25272	1.21051	1.16170
3861172.96	1.32061	1.26981	1.21820

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***

INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 , L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 , L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	491611.20	491641.99	491672.78	491703.57	491734.36	491765.15	491795.94	491826.73	491857.52
3861693.54	0.42409	0.42268	0.42172	0.41881	0.41658	0.41438	0.41284	0.41150	0.41014
3861664.09	0.44084	0.43906	0.43660	0.43486	0.43290	0.43095	0.42899	0.42680	0.42438
3861634.64	0.45902	0.45682	0.45439	0.45246	0.45029	0.44740	0.44615	0.44347	0.44054
3861605.19	0.47771	0.47580	0.47312	0.47070	0.46878	0.46583	0.46360	0.46084	0.45805
3861575.74	0.49793	0.49550	0.49253	0.49008	0.48707	0.48430	0.48174	0.47863	0.47548
3861546.29	0.51891	0.51645	0.51283	0.50976	0.50692	0.50376	0.50108	0.49755	0.49449
3861516.84	0.54118	0.53804	0.53457	0.53077	0.52721	0.52332	0.51966	0.51622	0.51245
3861487.39	0.56409	0.56048	0.55682	0.55250	0.54813	0.54372	0.53955	0.53532	0.53105
3861457.94	0.58782	0.58334	0.57881	0.57422	0.56958	0.56458	0.55985	0.55536	0.55054
3861428.49	0.61296	0.60714	0.60229	0.59706	0.59178	0.58645	0.58110	0.57571	0.57000
3861399.04	0.63836	0.63178	0.62622	0.61994	0.61431	0.60831	0.60197	0.59564	0.58963

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                   INCLUDING SOURCE(S):   L0000317   , L0000318
, L0000319   , L0000320   , L0000321   ,
                  L0000322   , L0000323   , L0000324   , L0000325   , L0000326
, L0000327   , L0000328   , L0000329   ,
                  L0000330   , L0000331   , L0000332   , L0000333   , L0000334
, L0000335   , L0000336   , L0000337   ,
                  L0000338   , L0000339   , L0000340   , L0000341   , L0000342
, L0000343   , L0000344   , . . .   ,

                                    *** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 491888.31   491919.10   491949.89   491980.68   492011.47
492042.26   492073.05   492103.84   492134.63
 -
- -

 3861693.54 | 0.40794   0.40404   0.40243   0.40058   0.39868
0.39675   0.39397   0.39175   0.38969
 3861664.09 | 0.42259   0.42012   0.41804   0.41656   0.41460
0.41239   0.40765   0.40515   0.40303
 3861634.64 | 0.43803   0.43595   0.43403   0.43184   0.42981
0.42750   0.42429   0.41978   0.41651
 3861605.19 | 0.45546   0.45282   0.45035   0.44761   0.44481
0.44240   0.43906   0.43589   0.43184
 3861575.74 | 0.47302   0.46976   0.46670   0.46405   0.46065
0.45834   0.45597   0.45087   0.44798
 3861546.29 | 0.49111   0.48768   0.48420   0.48067   0.47805
0.47419   0.46959   0.46569   0.46222
 3861516.84 | 0.50942   0.50553   0.50134   0.49712   0.49437
0.49032   0.48480   0.48098   0.47667
 3861487.39 | 0.52728   0.52319   0.51905   0.51435   0.51015
0.50669   0.50070   0.49599   0.49153
 3861457.94 | 0.54568   0.54108   0.53618   0.53181   0.52688
0.52327   0.51654   0.51165   0.50680
 3861428.49 | 0.56428   0.55916   0.55403   0.54890   0.54350
0.53948   0.53304   0.52747   0.52195
 3861399.04 | 0.58364   0.57797   0.57231   0.56638   0.56050
0.55578   0.54915   0.54314   0.53748
 3861369.59 | 0.60346   0.59628   0.59072   0.58398   0.57760
0.57217   0.56479   0.55864   0.55312
 3861340.14 | 0.62341   0.61499   0.60860   0.60166   0.59480
0.58893   0.58165   0.57507   0.56858
 3861310.69 | 0.64246   0.63411   0.62655   0.61943   0.61240
0.60608   0.59834   0.59162   0.58443
 3861281.24 | 0.66157   0.65334   0.64525   0.63729   0.63043
0.62240   0.61452   0.60739   0.60008
 3861251.79 | 0.68074   0.67233   0.66405   0.65592   0.64826
0.63943   0.63142   0.62324   0.61552
 3861222.34 | 0.70075   0.69215   0.68334   0.67435   0.66554
0.65656   0.64843   0.64012   0.63166
 3861192.89 | 0.72203   0.71212   0.70278   0.69326   0.68395
0.67380   0.66555   0.65713   0.64854
 3861163.44 | 0.74273   0.73224   0.72199   0.71195   0.70249
0.69183   0.68278   0.67425   0.66490
 3861133.99 | 0.76157   0.75134   0.74056   0.72964   0.71933
0.70926   0.69975   0.69045   0.68066
 3861104.54 | 0.78127   0.76970   0.75839   0.74735   0.73694
0.72675   0.71678   0.70668   0.69680

Y-COORD (METERS)	X-COORD (METERS) 492165.42	492196.21	492227.00
3861693.54	0.38758	0.38524	0.38323
3861664.09	0.40065	0.39822	0.39595
3861634.64	0.41300	0.41154	0.40858
3861605.19	0.42733	0.42474	0.42148
3861575.74	0.44265	0.43841	0.43505
3861546.29	0.45806	0.45412	0.44974
3861516.84	0.47306	0.46853	0.46446
3861487.39	0.48732	0.48289	0.47848
3861457.94	0.50197	0.49717	0.49265
3861428.49	0.51699	0.51182	0.50670
3861399.04	0.53213	0.52659	0.52136
3861369.59	0.54712	0.54146	0.53588
3861340.14	0.56219	0.55617	0.55050
3861310.69	0.57764	0.57069	0.56467
3861281.24	0.59261	0.58556	0.57891
3861251.79	0.60795	0.60022	0.59292
3861222.34	0.62368	0.61555	0.60728
3861192.89	0.63982	0.63097	0.62230
3861163.44	0.65575	0.64648	0.63771
3861133.99	0.67142	0.66269	0.65383
3861104.54	0.68713	0.67833	0.66906

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 ,
L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 ,
L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 ,
L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488802.97	3861310.09	0.69539	488863.58	3861309.29	0.73161
488847.63	3861279.78	0.75991	488850.82	3861262.24	0.78908
488810.14	3861261.44	0.76781	488810.94	3861289.36	0.72518
488819.72	3861306.90	0.70510	488816.53	3861235.92	0.81285
488841.25	3861126.66	1.07302	488879.53	3861121.88	1.13725
488913.82	3861121.08	1.19258	488925.79	3861092.37	1.31392
488920.03	3861067.49	1.37869	488996.74	3861113.92	1.36557
488974.03	3861097.77	1.40836	488931.63	3860976.64	1.53419
488935.67	3861034.68	1.49366	488959.90	3861061.43	1.52062
489165.81	3861208.80	1.33607	489317.74	3861109.28	2.36439
489385.87	3861014.75	4.94346	489372.24	3861112.69	2.47065
489420.79	3861106.73	2.63975	489436.12	3861037.74	4.27538
489488.07	3861036.89	4.55826	489473.59	3861110.99	2.62539
489431.01	3861167.20	1.94777	489662.66		

3860915.95 17.55818
489644.78 3861076.07 3.29372 489659.26
3861099.06 2.79984
489735.91 3861020.71 5.02712 489700.14
3861029.23 4.78111
489708.65 3861062.44 3.66535 489779.34
3861099.06 2.83489
489835.95 3859138.59 0.15071 489885.95
3859138.59 0.15166
489935.95 3859138.59 0.15297 489985.95
3859138.59 0.15085
490035.95 3859138.59 0.14809 490085.95
3859138.59 0.14772
490135.95 3859138.59 0.15020 490185.95
3859138.59 0.15094
490235.95 3859138.59 0.14958 490285.95
3859138.59 0.14402
490335.95 3859138.59 0.13787 490385.95
3859138.59 0.12976
490435.95 3859138.59 0.12781 490485.95
3859138.59 0.12244
490535.95 3859138.59 0.11493 490585.95
3859138.59 0.11138
490635.95 3859138.59 0.10689 490685.95
3859138.59 0.10398
490735.95 3859138.59 0.10341 490785.95
3859138.59 0.10234
490835.95 3859138.59 0.10042 490885.95
3859138.59 0.09913
489835.95 3859188.59 0.16337 489885.95
3859188.59 0.16394
489935.95 3859188.59 0.16558 489985.95
3859188.59 0.16294
490035.95 3859188.59 0.16274 490085.95
3859188.59 0.16580
490135.95 3859188.59 0.16504 490185.95
3859188.59 0.16319
490235.95 3859188.59 0.15843 490285.95
3859188.59 0.15435
490335.95 3859188.59 0.15117 490385.95
3859188.59 0.14588
490435.95 3859188.59 0.13939 490485.95
3859188.59 0.13013
490535.95 3859188.59 0.12552 490585.95
3859188.59 0.12361
490635.95 3859188.59 0.11783 490685.95
3859188.59 0.11096
490735.95 3859188.59 0.10784 490785.95
3859188.59 0.10659
490835.95 3859188.59 0.11117 490885.95

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                  INCLUDING SOURCE(S):   L0000317   , L0000318
, L0000319   , L0000320   , L0000321   ,
                  L0000322   , L0000323   , L0000324   , L0000325   , L0000326
, L0000327   , L0000328   , L0000329   ,
                  L0000330   , L0000331   , L0000332   , L0000333   , L0000334
, L0000335   , L0000336   , L0000337   ,
                  L0000338   , L0000339   , L0000340   , L0000341   , L0000342
, L0000343   , L0000344   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         489935.95   3859238.59   0.17908   489985.95
3859238.59   0.17449
         490035.95   3859238.59   0.17653   490085.95
3859238.59   0.18081
         490135.95   3859238.59   0.18182   490185.95
3859238.59   0.18100
         490235.95   3859238.59   0.17508   490285.95
3859238.59   0.16855
         490335.95   3859238.59   0.16351   490385.95
3859238.59   0.15991
         490435.95   3859238.59   0.15542   490485.95
3859238.59   0.15235
         490535.95   3859238.59   0.14516   490585.95
3859238.59   0.13914
         490635.95   3859238.59   0.13470   490685.95
3859238.59   0.13529
         490735.95   3859238.59   0.13132   490785.95
3859238.59   0.13229

490835.95 3859238.59 0.13295 490885.95 3859238.59 0.13108
489835.95 3859288.59 0.19281 489885.95 3859288.59 0.19493
489935.95 3859288.59 0.19466 489985.95 3859288.59 0.18971
490035.95 3859288.59 0.19378 490085.95 3859288.59 0.19640
490135.95 3859288.59 0.19807 490185.95 3859288.59 0.19719
490235.95 3859288.59 0.19267 490285.95 3859288.59 0.18947
490335.95 3859288.59 0.18273 490385.95 3859288.59 0.17693
490435.95 3859288.59 0.16923 490485.95 3859288.59 0.17115
490535.95 3859288.59 0.17592 490585.95 3859288.59 0.16921
490635.95 3859288.59 0.17041 490685.95 3859288.59 0.16801
490735.95 3859288.59 0.16098 490785.95 3859288.59 0.16076
490835.95 3859288.59 0.16047 490885.95 3859288.59 0.15868
489835.95 3859338.59 0.21320 489885.95 3859338.59 0.21632
489935.95 3859338.59 0.21300 489985.95 3859338.59 0.21342
490035.95 3859338.59 0.21606 490085.95 3859338.59 0.21946
490135.95 3859338.59 0.21932 490185.95 3859338.59 0.21802
490235.95 3859338.59 0.21628 490285.95 3859338.59 0.21348
490335.95 3859338.59 0.20733 490385.95 3859338.59 0.20476
490435.95 3859338.59 0.20411 490485.95 3859338.59 0.20338
490535.95 3859338.59 0.20434 490585.95 3859338.59 0.20455
490635.95 3859338.59 0.20591 490685.95 3859338.59 0.20150
490735.95 3859338.59 0.19592 490785.95 3859338.59 0.19364
490835.95 3859338.59 0.19773 490885.95 3859338.59 0.19447
489835.95 3859388.59 0.23370 489885.95 3859388.59 0.23670
489935.95 3859388.59 0.24057 489985.95 3859388.59 0.23954

```
         490035.95    3859388.59        0.24248                       490085.95
3859388.59        0.24597
         490135.95    3859388.59        0.24571                       490185.95
3859388.59        0.24430
         490235.95    3859388.59        0.24328                       490285.95
3859388.59        0.24403
         490335.95    3859388.59        0.24202                       490385.95
3859388.59        0.24234
         490435.95    3859388.59        0.24434                       490485.95
3859388.59        0.24649
         490535.95    3859388.59        0.24754                       490585.95
3859388.59        0.24918
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 265
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         490635.95    3859388.59        0.24729                       490685.95
3859388.59        0.23681
         490735.95    3859388.59        0.22425                       490785.95
3859388.59        0.22900
         490835.95    3859388.59        0.24007                       490885.95
3859388.59        0.24122
         489835.95    3859438.59        0.26669                       489885.95
3859438.59        0.26757
         489935.95    3859438.59        0.26914                       489985.95
```

3859438.59 0.27139
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490235.95 3859438.59 0.27797 490285.95
3859438.59 0.27990
490335.95 3859438.59 0.28252 490385.95
3859438.59 0.28579
490435.95 3859438.59 0.28928 490485.95
3859438.59 0.29110
490535.95 3859438.59 0.29354 490585.95
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3859438.59 0.29163
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3859438.59 0.28471
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3859438.59 0.29083
490085.95 3859488.59 0.31142 490135.95
3859488.59 0.31338
490185.95 3859488.59 0.31870 490235.95
3859488.59 0.32301
490285.95 3859488.59 0.32533 490335.95
3859488.59 0.33237
490385.95 3859488.59 0.33603 490435.95
3859488.59 0.34190
490485.95 3859488.59 0.34570 490535.95
3859488.59 0.34925
490585.95 3859488.59 0.34867 490635.95
3859488.59 0.34965
490685.95 3859488.59 0.35033 490735.95
3859488.59 0.34708
490785.95 3859488.59 0.34475 490835.95
3859488.59 0.34582
490885.95 3859488.59 0.34460 490085.95
3859538.59 0.35793
490135.95 3859538.59 0.36364 490185.95
3859538.59 0.37085
490235.95 3859538.59 0.37999 490285.95
3859538.59 0.38710
490335.95 3859538.59 0.39238 490385.95
3859538.59 0.39835
490435.95 3859538.59 0.40456 490485.95
3859538.59 0.40953
490535.95 3859538.59 0.41381 490585.95
3859538.59 0.41554
490635.95 3859538.59 0.41663 490685.95
3859538.59 0.41663
490735.95 3859538.59 0.41287 490785.95

3859538.59   0.41067
         490835.95   3859538.59   0.40947   490885.95
3859538.59   0.40056
         490135.95   3859588.59   0.42493   490185.95
3859588.59   0.43377
         490235.95   3859588.59   0.44647   490285.95
3859588.59   0.45813
         490335.95   3859588.59   0.46574   490385.95
3859588.59   0.47567
         490435.95   3859588.59   0.48323   490485.95
3859588.59   0.48829
         490535.95   3859588.59   0.49186   490585.95
3859588.59   0.49464
         490635.95   3859588.59   0.49350   490685.95
3859588.59   0.49320
         490735.95   3859588.59   0.48771   490785.95
3859588.59   0.48251
         490835.95   3859588.59   0.48003   490885.95
3859588.59   0.47421
         490135.95   3859638.59   0.49190   490185.95
3859638.59   0.51623

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
                                    INCLUDING SOURCE(S):   L0000317   , L0000318 , L0000319   , L0000320   , L0000321   ,
                                     L0000322   , L0000323   , L0000324   , L0000325   , L0000326 , L0000327   , L0000328   , L0000329   ,
                                     L0000330   , L0000331   , L0000332   , L0000333   , L0000334 , L0000335   , L0000336   , L0000337   ,
                                     L0000338   , L0000339   , L0000340   , L0000341   , L0000342 , L0000343   , L0000344   , . . .   ,

                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

490235.95 3859638.59 0.52870 490285.95
3859638.59 0.54490
490335.95 3859638.59 0.55705 490385.95
3859638.59 0.56696
490435.95 3859638.59 0.57709 490485.95
3859638.59 0.58153
490535.95 3859638.59 0.58484 490585.95
3859638.59 0.58709
490635.95 3859638.59 0.58398 490685.95
3859638.59 0.58002
490735.95 3859638.59 0.57349 490785.95
3859638.59 0.56778
490835.95 3859638.59 0.56513 490885.95
3859638.59 0.56265
490135.95 3859688.59 0.60057 490185.95
3859688.59 0.61836
490235.95 3859688.59 0.63550 490285.95
3859688.59 0.64775
490335.95 3859688.59 0.66424 490385.95
3859688.59 0.67957
490435.95 3859688.59 0.68670 490485.95
3859688.59 0.69204
490535.95 3859688.59 0.69256 490585.95
3859688.59 0.69404
490635.95 3859688.59 0.68905 490685.95
3859688.59 0.68151
490735.95 3859688.59 0.67344 490785.95
3859688.59 0.66650
490835.95 3859688.59 0.66236 490885.95
3859688.59 0.66637
490085.95 3859738.59 0.70938 490135.95
3859738.59 0.73240
490185.95 3859738.59 0.75414 490235.95
3859738.59 0.77265
490285.95 3859738.59 0.78830 490335.95
3859738.59 0.80348
490385.95 3859738.59 0.81027 490435.95
3859738.59 0.81898
490485.95 3859738.59 0.82134 490535.95
3859738.59 0.82432
490585.95 3859738.59 0.81923 490635.95
3859738.59 0.81125
490685.95 3859738.59 0.80306 490735.95
3859738.59 0.79560
490785.95 3859738.59 0.78994 490835.95
3859738.59 0.78295
490885.95 3859738.59 0.77766 490085.95
3859788.59 0.88270
490135.95 3859788.59 0.90847 490185.95
3859788.59 0.92988

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         490235.95    3859788.59        0.94711                      490285.95
3859788.59        0.96064
         490335.95    3859788.59        0.97064                      490385.95
3859788.59        0.97667
         490435.95    3859788.59        0.98076                      490485.95
3859788.59        0.98015
         490535.95    3859788.59        0.97353                      490585.95
3859788.59        0.96960
         490635.95    3859788.59        0.95536                      490685.95
3859788.59        0.94215
         490735.95    3859788.59        0.93623                      490785.95
3859788.59        0.92569
         490835.95    3859788.59        0.91202                      490885.95
3859788.59        0.89023
         490085.95    3859838.59        1.12018                      490135.95
3859838.59        1.14339
         490185.95    3859838.59        1.15959                      490235.95
3859838.59        1.17099
         490285.95    3859838.59        1.17677                      490335.95
3859838.59        1.17702
         490385.95    3859838.59        1.17448                      490435.95
3859838.59        1.16961
         490485.95    3859838.59        1.16160                      490535.95
3859838.59        1.15043
         490585.95    3859838.59        1.13647                      490635.95
3859838.59        1.12085
         490685.95    3859838.59        1.10705                      490735.95
3859838.59        1.08820
         490785.95    3859838.59        1.06377                      490835.95
3859838.59        1.04706
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 267
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490885.95	3859838.59	1.02762	490085.95	3859888.59	1.44136
490135.95	3859888.59	1.45159	490185.95	3859888.59	1.45587
490235.95	3859888.59	1.45255	490285.95	3859888.59	1.44253
490335.95	3859888.59	1.42835	490385.95	3859888.59	1.41081
490435.95	3859888.59	1.39020	490485.95	3859888.59	1.36922
490535.95	3859888.59	1.34828	490585.95	3859888.59	1.32435
490635.95	3859888.59	1.29937	490685.95	3859888.59	1.27451
490735.95	3859888.59	1.25027	490785.95	3859888.59	1.22741
490835.95	3859888.59	1.20271	490885.95	3859888.59	1.17149
490135.95	3859938.59	1.85078	490185.95	3859938.59	1.82794
490235.95	3859938.59	1.79856	490285.95	3859938.59	1.76309
490335.95	3859938.59	1.72351	490385.95	3859938.59	1.68356
490435.95	3859938.59	1.64213	490485.95	3859938.59	1.60176
490535.95	3859938.59	1.56688	490585.95	3859938.59	1.53110
490635.95	3859938.59	1.49396	490685.95	3859938.59	1.45544
490735.95	3859938.59	1.41830	490785.95	3859938.59	1.38550
490835.95	3859938.59	1.35275	490885.95	3859938.59	1.32567
490135.95	3859988.59	2.34847	490185.95	3859988.59	2.28053
490235.95	3859988.59	2.21148	490285.95	3859988.59	2.13702
490335.95	3859988.59	2.06355	490385.95	3859988.59	1.98863
490435.95	3859988.59	1.91919	490485.95		

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3859988.59        1.85633
         490535.95    3859988.59        1.79922                        490585.95
3859988.59        1.74689
         490635.95    3859988.59        1.69700                        490685.95
3859988.59        1.64750
         490735.95    3859988.59        1.59902                        490785.95
3859988.59        1.55330
         490835.95    3859988.59        1.50963                        490885.95
3859988.59        1.46720
         490135.95    3860038.59        2.93450                        490185.95
3860038.59        2.79606
         490235.95    3860038.59        2.66447                        490285.95
3860038.59        2.53866
         490335.95    3860038.59        2.42515                        490385.95
3860038.59        2.31305
         490435.95    3860038.59        2.21206                        490485.95
3860038.59        2.12075
         490535.95    3860038.59        2.04026                        490585.95
3860038.59        1.96528
         490635.95    3860038.59        1.89281                        490685.95
3860038.59        1.83106
         490735.95    3860038.59        1.77557                        490785.95
3860038.59        1.71632
         490835.95    3860038.59        1.65981                        490885.95
3860038.59        1.60479
         490135.95    3860088.59        3.56234                        490185.95
3860088.59        3.34204
         490235.95    3860088.59        3.13596                        490285.95
3860088.59        2.95181
         490335.95    3860088.59        2.78396                        490385.95
3860088.59        2.63448
         490435.95    3860088.59        2.50037                        490485.95
3860088.59        2.37727
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3860088.59        2.17657
         490635.95    3860088.59        2.08587                        490685.95
3860088.59        2.00634
         490735.95    3860088.59        1.93424                        490785.95
3860088.59        1.86627
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 268
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000317    , L0000318
```

```
, L0000319    , L0000320    , L0000321    ,
                L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3860088.59        1.73177
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         490235.95    3860138.59        3.56112                       490285.95
3860138.59        3.32369
         490335.95    3860138.59        3.11488                       490385.95
3860138.59        2.92867
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3860138.59        2.61435
         490535.95    3860138.59        2.48750                       490585.95
3860138.59        2.37029
         490635.95    3860138.59        2.26300                       490685.95
3860138.59        2.16397
         490735.95    3860138.59        2.07562                       490785.95
3860138.59        1.99795
         490835.95    3860138.59        1.91960                       490885.95
3860138.59        1.84099
         490935.95    3860138.59        1.76731                       490985.95
3860138.59        1.70295
         491035.95    3860138.59        1.64351                       490135.95
3860188.59        4.60991
         490185.95    3860188.59        4.23870                       490235.95
3860188.59        3.91322
         490285.95    3860188.59        3.63278                       490335.95
3860188.59        3.39000
         490385.95    3860188.59        3.17713                       490435.95
3860188.59        2.98931
         490485.95    3860188.59        2.82098                       490535.95
3860188.59        2.67316
         490585.95    3860188.59        2.54369                       490635.95
3860188.59        2.41867
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         490685.95    3860188.59        2.30966                    490735.95
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         490785.95    3860188.59        2.11144                    490835.95
3860188.59        2.02586
         490885.95    3860188.59        1.93894                    490935.95
3860188.59        1.85768
         490985.95    3860188.59        1.78636                    491035.95
3860188.59        1.71703
         491085.95    3860188.59        1.64961                    491135.95
3860188.59        1.59191
         490135.95    3860238.59        4.93894                    490185.95
3860238.59        4.53430
         490235.95    3860238.59        4.18307                    490285.95
3860238.59        3.87987
         490335.95    3860238.59        3.61672                    490385.95
3860238.59        3.38578
         490435.95    3860238.59        3.18325                    490485.95
3860238.59        2.99877
         490535.95    3860238.59        2.83630                    490585.95
3860238.59        2.69029
         490635.95    3860238.59        2.55715                    490685.95
3860238.59        2.43543
         490735.95    3860238.59        2.32209                    490785.95
3860238.59        2.21705
         490835.95    3860238.59        2.11912                    490885.95
3860238.59        2.02910
         490935.95    3860238.59        1.94468                    490985.95
3860238.59        1.87454
         491035.95    3860238.59        1.79753                    491085.95
3860238.59        1.72150
         491135.95    3860238.59        1.65539                    490135.95
3860288.59        5.15409
         490185.95    3860288.59        4.73761                    490235.95
3860288.59        4.38451
         490285.95    3860288.59        4.06972                    490335.95
3860288.59        3.79471
         490385.95    3860288.59        3.55672                    490435.95
3860288.59        3.34221
         490485.95    3860288.59        3.14967                    490535.95
3860288.59        2.97284
         490585.95    3860288.59        2.81368                    490635.95
3860288.59        2.67173
         490685.95    3860288.59        2.54328                    490735.95
3860288.59        2.42317
         490785.95    3860288.59        2.31307                    490835.95
3860288.59        2.20782
         490885.95    3860288.59        2.11263                    490935.95
3860288.59        2.02002
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
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                            *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
                            INCLUDING SOURCE(S):   L0000317   , L0000318 , L0000319   , L0000320   , L0000321   ,
                 L0000322   , L0000323   , L0000324   , L0000325   , L0000326 , L0000327   , L0000328   , L0000329   ,
                 L0000330   , L0000331   , L0000332   , L0000333   , L0000334 , L0000335   , L0000336   , L0000337   ,
                 L0000338   , L0000339   , L0000340   , L0000341   , L0000342 , L0000343   , L0000344   , . . .   ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                 ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3860388.59 5.30589
490185.95 3860388.59 4.92208 490235.95
3860388.59 4.59228
490285.95 3860388.59 4.29405 490335.95
3860388.59 4.02651
490385.95 3860388.59 3.78245 490435.95
3860388.59 3.56232
490485.95 3860388.59 3.36434 490535.95
3860388.59 3.18014
490585.95 3860388.59 3.01179 490635.95
3860388.59 2.85437
490685.95 3860388.59 2.71401 490735.95
3860388.59 2.58053
490785.95 3860388.59 2.45922 490835.95
3860388.59 2.34918
490135.95 3860438.59 5.31146 490185.95
3860438.59 4.95581
490235.95 3860438.59 4.63574 490285.95
3860438.59 4.34660
490335.95 3860438.59 4.08044 490385.95
3860438.59 3.84291
490435.95 3860438.59 3.62476 490485.95
3860438.59 3.42397
490535.95 3860438.59 3.24201 490585.95
3860438.59 3.07091
490635.95 3860438.59 2.91282 490685.95
3860438.59 2.76910
490735.95 3860438.59 2.63792 490785.95
3860438.59 2.51205
490835.95 3860438.59 2.40095 490135.95
3860488.59 5.33792
490185.95 3860488.59 4.98959 490235.95
3860488.59 4.66825
490285.95 3860488.59 4.38615 490335.95
3860488.59 4.12066
490385.95 3860488.59 3.88533 490435.95
3860488.59 3.67605
490485.95 3860488.59 3.47157 490535.95
3860488.59 3.28194
490585.95 3860488.59 3.10830 490635.95
3860488.59 2.95254
490685.95 3860488.59 2.80279 490735.95
3860488.59 2.66939
490785.95 3860488.59 2.54419 490135.95
3860538.59 5.37089
490185.95 3860538.59 5.04468 490235.95
3860538.59 4.70733
490285.95 3860538.59 4.41679 490335.95
3860538.59 4.15794
490385.95 3860538.59 3.92562 490435.95

3860538.59   3.70741
         490485.95   3860538.59   3.50750   490535.95
3860538.59   3.33611
         490585.95   3860538.59   3.13730   490635.95
3860538.59   2.97245
         490685.95   3860538.59   2.82471   490735.95
3860538.59   2.68491

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
                                INCLUDING SOURCE(S):   L0000317   , L0000318 , L0000319   , L0000320   , L0000321   ,
                  L0000322   , L0000323   , L0000324   , L0000325   , L0000326 , L0000327   , L0000328   , L0000329   ,
                  L0000330   , L0000331   , L0000332   , L0000333   , L0000334 , L0000335   , L0000336   , L0000337   ,
                  L0000338   , L0000339   , L0000340   , L0000341   , L0000342 , L0000343   , L0000344   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                *** CONC OF PM_10   IN MICROGRAMS/M**3   **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

```
        490785.95    3860588.59        2.55037                    490135.95
3860638.59        5.52270
        490185.95    3860638.59        5.13531                    490235.95
3860638.59        4.76552
        490285.95    3860638.59        4.45893                    490335.95
3860638.59        4.19612
        490385.95    3860638.59        3.94753                    490435.95
3860638.59        3.71341
        490485.95    3860638.59        3.50309                    490535.95
3860638.59        3.31763
        490585.95    3860638.59        3.12966                    490635.95
3860638.59        2.96407
        490685.95    3860638.59        2.80819                    490735.95
3860638.59        2.65940
        490785.95    3860638.59        2.52893                    490135.95
3860688.59        5.57253
        490185.95    3860688.59        5.20523                    490235.95
3860688.59        4.81695
        490285.95    3860688.59        4.44201                    490335.95
3860688.59        4.17563
        490385.95    3860688.59        3.92517                    490435.95
3860688.59        3.68563
        490485.95    3860688.59        3.45995                    490535.95
3860688.59        3.26503
        490585.95    3860688.59        3.08610                    490635.95
3860688.59        2.92206
        490685.95    3860688.59        2.77324                    490735.95
3860688.59        2.62861
        490785.95    3860688.59        2.50186                    490135.95
3860738.59        5.55428
        490185.95    3860738.59        5.09672                    490235.95
3860738.59        4.71766
        490285.95    3860738.59        4.39218                    490335.95
3860738.59        4.10273
        490385.95    3860738.59        3.84689                    490435.95
3860738.59        3.63407
        490485.95    3860738.59        3.40749                    490535.95
3860738.59        3.18608
        490585.95    3860738.59        3.00276                    490635.95
3860738.59        2.84044
        490685.95    3860738.59        2.69900                    490735.95
3860738.59        2.56717
        490785.95    3860738.59        2.44771                    490135.95
3860788.59        5.42599
        490185.95    3860788.59        4.97627                    490235.95
3860788.59        4.58490
        490285.95    3860788.59        4.24805                    490335.95
3860788.59        3.94913
        490385.95    3860788.59        3.70519                    490435.95
3860788.59        3.47467
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```
         490485.95    3860788.59        3.27820                      490535.95
3860788.59        3.08012
         490585.95    3860788.59        2.88643                      490635.95
3860788.59        2.72631
         490685.95    3860788.59        2.58670                      490735.95
3860788.59        2.46382
         490785.95    3860788.59        2.34105                      489985.95
3860838.59        7.04882
         490035.95    3860838.59        6.30560                      490085.95
3860838.59        5.70239
         490135.95    3860838.59        5.19182                      490185.95
3860838.59        4.73226
         490235.95    3860838.59        4.34415                      490285.95
3860838.59        4.02125
         490335.95    3860838.59        3.73012                      490385.95
3860838.59        3.48110
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):   L0000317   , L0000318
, L0000319   , L0000320   , L0000321   ,
                  L0000322   , L0000323   , L0000324   , L0000325   , L0000326
, L0000327   , L0000328   , L0000329   ,
                  L0000330   , L0000331   , L0000332   , L0000333   , L0000334
, L0000335   , L0000336   , L0000337   ,
                  L0000338   , L0000339   , L0000340   , L0000341   , L0000342
, L0000343   , L0000344   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         490435.95   3860838.59   3.27283   490485.95
3860838.59   3.08255
         490535.95   3860838.59   2.90538   490585.95
3860838.59   2.73741
         490635.95   3860838.59   2.58505   490685.95
```
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3860838.59 2.45406
490735.95 3860838.59 2.33912 490785.95
3860838.59 2.22905
490835.95 3860838.59 2.12385 489835.95
3860888.59 9.83787
489885.95 3860888.59 8.37777 489935.95
3860888.59 7.28366
489985.95 3860888.59 6.44547 490035.95
3860888.59 5.77066
490085.95 3860888.59 5.22603 490135.95
3860888.59 4.75512
490185.95 3860888.59 4.34551 490235.95
3860888.59 4.00200
490285.95 3860888.59 3.70409 490335.95
3860888.59 3.44107
490385.95 3860888.59 3.22295 490435.95
3860888.59 3.03312
490485.95 3860888.59 2.85807 490535.95
3860888.59 2.69863
490585.95 3860888.59 2.55133 490635.95
3860888.59 2.41570
490685.95 3860888.59 2.29623 490735.95
3860888.59 2.18830
490785.95 3860888.59 2.08539 490835.95
3860888.59 1.99519
490885.95 3860888.59 1.91549 490935.95
3860888.59 1.83493
489835.95 3860938.59 7.80022 489885.95
3860938.59 6.84706
489935.95 3860938.59 6.10505 489985.95
3860938.59 5.49675
490035.95 3860938.59 4.98679 490085.95
3860938.59 4.55455
490135.95 3860938.59 4.16670 490185.95
3860938.59 3.85451
490235.95 3860938.59 3.57902 490285.95
3860938.59 3.33902
490335.95 3860938.59 3.11569 490385.95
3860938.59 2.93218
490435.95 3860938.59 2.76752 490485.95
3860938.59 2.61376
490535.95 3860938.59 2.47705 490585.95
3860938.59 2.34815
490635.95 3860938.59 2.23124 490685.95
3860938.59 2.12661
490735.95 3860938.59 2.03064 490785.95
3860938.59 1.94255
490835.95 3860938.59 1.86675 490885.95
3860938.59 1.79693
490935.95 3860938.59 1.72479 489835.95

3860988.59   5.73839
         489885.95   3860988.59   5.28351   489935.95
3860988.59   4.86416
         489985.95   3860988.59   4.49069   490035.95
3860988.59   4.15401
         490085.95   3860988.59   3.86172   490135.95
3860988.59   3.59262
         490185.95   3860988.59   3.36536   490235.95
3860988.59   3.14154
         490285.95   3860988.59   2.94809   490335.95
3860988.59   2.77842
         490385.95   3860988.59   2.62636   490435.95
3860988.59   2.49737
         490485.95   3860988.59   2.36878   490535.95
3860988.59   2.24826
         490585.95   3860988.59   2.14045   490635.95
3860988.59   2.04489
         490685.95   3860988.59   1.95339   490735.95
3860988.59   1.86868
         490785.95   3860988.59   1.79417   490835.95
3860988.59   1.72775
         490885.95   3860988.59   1.66793   490935.95
3860988.59   1.60532
         489835.95   3861038.59   4.12453   489885.95
3861038.59   3.95432

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
                                  INCLUDING SOURCE(S):   L0000317   , L0000318 , L0000319   , L0000320   , L0000321   ,
                 L0000322   , L0000323   , L0000324   , L0000325   , L0000326 , L0000327   , L0000328   , L0000329   ,
                 L0000330   , L0000331   , L0000332   , L0000333   , L0000334 , L0000335   , L0000336   , L0000337   ,
                 L0000338   , L0000339   , L0000340   , L0000341   , L0000342 , L0000343   , L0000344   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
489935.95	3861038.59	3.75028	489985.95	3861038.59	3.55314
490035.95	3861038.59	3.36669	490085.95	3861038.59	3.18847
490135.95	3861038.59	3.02014	490185.95	3861038.59	2.86102
490235.95	3861038.59	2.71629	490285.95	3861038.59	2.57122
490335.95	3861038.59	2.44045	490385.95	3861038.59	2.33199
490435.95	3861038.59	2.23058	490485.95	3861038.59	2.12888
490535.95	3861038.59	2.03137	490585.95	3861038.59	1.94064
490635.95	3861038.59	1.85652	490685.95	3861038.59	1.77987
490735.95	3861038.59	1.71019	490785.95	3861038.59	1.64771
490835.95	3861038.59	1.59067	490885.95	3861038.59	1.53659
490935.95	3861038.59	1.48625	489835.95	3861088.59	3.01454
489885.95	3861088.59	2.95213	489935.95	3861088.59	2.87589
489985.95	3861088.59	2.78580	490035.95	3861088.59	2.69148
490085.95	3861088.59	2.59971	490135.95	3861088.59	2.51034
490185.95	3861088.59	2.42413	490235.95	3861088.59	2.31955
490285.95	3861088.59	2.22163	490335.95	3861088.59	2.12658
490385.95	3861088.59	2.04793	490435.95	3861088.59	1.96764
490485.95	3861088.59	1.89111	490535.95	3861088.59	1.82153
490585.95	3861088.59	1.74828	490635.95	3861088.59	1.67684
490685.95	3861088.59	1.61366	490735.95	3861088.59	1.55724
490785.95	3861088.59	1.50469	490835.95	3861088.59	1.45599
490885.95	3861088.59	1.41062	490935.95	3861088.59	1.36891
489020.79	3862564.85	0.17571	489043.15	3862350.21	0.21086

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0001073   , L0001074
, L0001075   , L0001076   , L0001077   ,
                  L0001078   , L0001079   , L0001080   , L0001081   , L0001082
, L0001083   , L0001084   , L0001085   ,
                  L0001086   , L0001087   , L0001088   , L0001089   , L0001090
, L0001091   , L0001092   , L0001093   ,
                  L0001094   , L0001095   , L0001096   , L0001097   , L0001098
, L0001099   , L0001100   , . . .   ,

                                   *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489237.26   489256.56   489275.86   489295.16   489314.46
489333.76   489353.06   489372.36   489391.66
 -
- -

  3859957.07 | 8.23456   6.94928   6.02582   5.29415   4.70273
 4.22325   3.83962   3.50974   3.22037
  3859937.65 | 8.27042   6.97742   6.03996   5.30697   4.71542
 4.24907   3.86924   3.54487   3.26140
  3859918.23 | 8.27028   6.98667   6.04733   5.29598   4.72122
 4.26050   3.88019   3.55066   3.26758
  3859898.81 | 8.29271   7.02225   6.07642   5.32910   4.74781
 4.28296   3.90020   3.57527   3.29799
  3859879.39 | 8.31881   7.06252   6.12371   5.37502   4.78139
 4.31084   3.92148   3.59977   3.32645
  3859859.97 | 8.33557   7.08119   6.13189   5.38205   4.78776
 4.31653   3.93027   3.61115   3.33786
  3859840.55 | 8.34028   7.09249   6.13522   5.38511   4.79444

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 4.32240      3.93576      3.61903      3.34835
  3859821.13 |       8.35140      7.09777      6.12625      5.37797      4.79332
 4.32174      3.93846      3.62161      3.35573
  3859801.71 |       8.35204      7.09563      6.13800      5.38201      4.80097
 4.33431      3.94430      3.62920      3.36433
  3859782.29 |       8.36275      7.10124      6.14922      5.38016      4.80477
 4.34003      3.95007      3.63420      3.36877
  3859762.87 |       8.36947      7.11512      6.15439      5.39100      4.80478
 4.33541      3.95338      3.62818      3.36439
  3859743.45 |       8.37757      7.12893      6.16073      5.40199      4.80955
 4.33953      3.95450      3.63420      3.36771
  3859724.03 |       8.38289      7.14133      6.17297      5.41288      4.81853
 4.34385      3.95851      3.64220      3.37479
  3859704.61 |       8.38645      7.14561      6.18380      5.42312      4.82967
 4.35533      3.96853      3.64901      3.38112
  3859685.19 |       8.39186      7.15716      6.19231      5.43495      4.83812
 4.36160      3.97355      3.65261      3.38441
  3859665.77 |       8.34609      7.16057      6.18526      5.41749      4.83284
 4.36393      3.97779      3.65500      3.38534
  3859646.35 |       8.33705      7.16619      6.20374      5.43933      4.84607
 4.36863      3.98056      3.65970      3.39016
  3859626.93 |       8.32374      7.17198      6.20829      5.44797      4.84922
 4.37134      3.98382      3.66364      3.39366
  3859607.51 |       8.33789      7.17449      6.21114      5.45098      4.85253
 4.37471      3.98687      3.66678      3.39719
  3859588.09 |       8.41647      7.18064      6.21430      5.45437      4.85604
 4.37837      3.99029      3.66973      3.39996
  3859568.67 |       8.40884      7.18819      6.21843      5.45980      4.86059
 4.38172      3.99391      3.67205      3.40274
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 274
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                  L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                  L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                  L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***
```

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	489410.96	489430.26	489449.56	489468.86	489488.16	489507.46	489526.76	489546.06	489565.36	
3859957.07	2.96375	2.70401	2.49409	2.33565	2.17890	2.04853	1.96779	1.89452	1.82028	
3859937.65	3.01969	2.81226	2.58440	2.42562	2.30286	2.18941	2.10741	2.02296	1.93750	
3859918.23	3.02082	2.79104	2.58383	2.44815	2.32407	2.21443	2.13053	2.04006	1.95231	
3859898.81	3.05156	2.83798	2.63886	2.45649	2.33758	2.24480	2.16075	2.05540	1.97223	
3859879.39	3.09279	2.88859	2.67821	2.46534	2.35358	2.29555	2.19692	2.07667	1.99483	
3859859.97	3.10754	2.90872	2.72418	2.56053	2.42977	2.32367	2.22007	2.11616	2.03409	
3859840.55	3.11800	2.92151	2.74589	2.59146	2.45391	2.33602	2.23002	2.13364	2.04861	
3859821.13	3.12732	2.92626	2.75068	2.60066	2.46539	2.34072	2.23472	2.14059	2.05493	
3859801.71	3.13713	2.93857	2.76357	2.60923	2.47431	2.35148	2.24316	2.14712	2.06316	
3859782.29	3.14266	2.94664	2.77388	2.61872	2.48035	2.35941	2.25102	2.15304	2.06878	
3859762.87	3.14126	2.94699	2.77971	2.62784	2.48634	2.35646	2.25692	2.16034	2.07437	
3859743.45	3.14263	2.94976	2.78313	2.63141	2.49182	2.36103	2.26387	2.16588	2.07950	
3859724.03	3.14739	2.95277	2.78569	2.63413	2.49586	2.36740	2.26935	2.17117	2.08331	
3859704.61	3.15424	2.95782	2.78890	2.63816	2.49982	2.37350	2.27436	2.17605	2.08828	
3859685.19	3.15726	2.96152	2.79156	2.64085	2.50370	2.37911	2.27890	2.18086	2.09302	
3859665.77	3.15846	2.96292	2.79384	2.64347	2.50749	2.38457	2.28326	2.18445	2.09735	
3859646.35	3.16061	2.96507	2.79655	2.64615	2.51041	2.38856	2.28709	2.18898	2.10077	
3859626.93	3.16403	2.96734	2.79934	2.64888	2.51467	2.39515	2.29019	2.19350	2.10568	
3859607.51	3.16849	2.97231	2.80216	2.65182	2.51870	2.39993	2.29346	2.19718	2.10999	
3859588.09	3.17121	2.97501	2.80414	2.65396	2.52093	2.40230	2.29549	2.19921	2.11243	

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0001073   , L0001074
, L0001075   , L0001076   , L0001077   ,
                  L0001078   , L0001079   , L0001080   , L0001081   , L0001082
, L0001083   , L0001084   , L0001085   ,
                  L0001086   , L0001087   , L0001088   , L0001089   , L0001090
, L0001091   , L0001092   , L0001093   ,
                  L0001094   , L0001095   , L0001096   , L0001097   , L0001098
, L0001099   , L0001100   , . . .   ,

                                   *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489584.66   489603.96   489623.26
 -
- -

  3859957.07 | 1.73333   1.62407   1.50981
  3859937.65 | 1.84745   1.75627   1.62395
  3859918.23 | 1.86975   1.79419   1.68625
  3859898.81 | 1.90002   1.82200   1.73599
  3859879.39 | 1.92881   1.84616   1.77471
  3859859.97 | 1.95892   1.86865   1.80199
  3859840.55 | 1.97249   1.88982   1.82636
  3859821.13 | 1.97707   1.90701   1.84077
  3859801.71 | 1.98635   1.91425   1.85071
  3859782.29 | 1.99319   1.91984   1.85794
  3859762.87 | 1.99708   1.92378   1.86552
  3859743.45 | 2.00088   1.92865   1.87060
  3859724.03 | 2.00563   1.93438   1.87429
  3859704.61 | 2.01032   1.93885   1.87731
  3859685.19 | 2.01477   1.94222   1.87980
  3859665.77 | 2.01815   1.94553   1.88217
  3859646.35 | 2.02147   1.94878   1.88443
  3859626.93 | 2.02596   1.95266   1.88683

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1   ***
                                    INCLUDING SOURCE(S):   L0001073   , L0001074 , L0001075   , L0001076   , L0001077   ,
                                       L0001078   , L0001079   , L0001080   , L0001081   , L0001082 , L0001083   , L0001084   , L0001085   ,
                                       L0001086   , L0001087   , L0001088   , L0001089   , L0001090 , L0001091   , L0001092   , L0001093   ,
                                       L0001094   , L0001095   , L0001096   , L0001097   , L0001098 , L0001099   , L0001100   , . . .   ,

                                     *** NETWORK ID: UCART2   ; NETWORK TYPE: GRIDCART ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489260.34   489284.99   489309.64   489334.29   489358.94   489383.59   489408.24   489432.89   489457.54
 -

  3859173.42 | 7.05343   5.95458   5.06754   4.42240   3.95431   3.57424   3.27018   3.02043   2.80902
  3859151.85 | 6.98982   5.86793   5.03477   4.42108   3.95903   3.57980   3.27665   3.02691   2.81500
  3859130.28 | 6.88384   5.78294   5.02155   4.42779   3.96819   3.59274   3.28476   3.03460   2.82089
  3859108.71 | 6.85830   5.79169   5.04537   4.45621   3.98737   3.60340   3.29392   3.04140   2.82634
  3859087.14 | 6.92435   5.88406   5.08197   4.47975   4.00020   3.61166   3.30429   3.04815   2.83177
  3859065.57 | 7.02411   5.94297   5.11886   4.50208   4.01048   3.62335   3.31176   3.05512   2.83944
  3859044.00 | 7.14688   6.01584   5.15506   4.51165   4.01845   3.63139   3.31803   3.06227   2.84741
  3859022.43 | 7.20635   6.03118   5.16409   4.51917   4.02531   3.63851   3.32667   3.07025   2.85492

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  3859000.86 |       7.22372      6.04087      5.17138      4.52629      4.03196
 3.64457      3.33282      3.07750      2.86264
  3858979.29 |       7.23329      6.05002      5.17851      4.53363      4.03871
 3.65009      3.33984      3.08494      2.87128
  3858957.72 |       7.24293      6.05797      5.18912      4.54151      4.04678
 3.65826      3.34703      3.09252      2.87999
  3858936.15 |       7.25728      6.07014      5.19815      4.54930      4.05332
 3.66460      3.35377      3.09898      2.88737
  3858914.58 |       7.26938      6.08059      5.20675      4.55695      4.06142
 3.67271      3.36202      3.10776      2.89580
  3858893.01 |       7.28133      6.08981      5.21292      4.56472      4.07114
 3.68275      3.37029      3.11744      2.90585
  3858871.44 |       7.29340      6.10283      5.22319      4.57463      4.07898
 3.69199      3.38102      3.12848      2.91644
  3858849.87 |       7.30333      6.11517      5.23667      4.58576      4.09070
 3.70287      3.39362      3.14059      2.92892
  3858828.30 |       7.32342      6.12795      5.24908      4.60040      4.10471
 3.71753      3.40776      3.15560      2.94558
  3858806.73 |       7.34018      6.14182      5.26423      4.61678      4.12228
 3.73510      3.42374      3.17555      2.96658
  3858785.16 |       7.35745      6.15890      5.28541      4.63949      4.14836
 3.76368      3.45406      3.20484      2.99493
  3858763.59 |       7.37801      6.18674      5.32094      4.68013      4.19111
 3.80728      3.49915      3.24623      3.03497
  3858742.02 |       7.44977      6.27690      5.41194      4.76461      4.26730
 3.87637      3.56120      3.30469      3.08900
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 277
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1   ***
                                 INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                  L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                  L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                  L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
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    Y-COORD  |                                                X-COORD (METERS)
    (METERS) |     489482.19    489506.84    489531.49    489556.14    489580.79
489605.44    489630.09    489654.74    489679.39
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3859173.42 |       2.62669      2.46998      2.33352      2.21779      2.11181
 2.01895      1.93551      1.86009      1.79211
  3859151.85 |       2.63295      2.47500      2.33867      2.22098      2.11686
 2.02533      1.94129      1.86591      1.79744
  3859130.28 |       2.63851      2.48043      2.34494      2.22640      2.12281
 2.03050      1.94654      1.87126      1.80260
  3859108.71 |       2.64438      2.48615      2.35073      2.23272      2.12842
 2.03505      1.95218      1.87609      1.80797
  3859087.14 |       2.65046      2.49473      2.35759      2.23937      2.13374
 2.04038      1.95760      1.88214      1.81412
  3859065.57 |       2.65795      2.50141      2.36496      2.24532      2.14032
 2.04609      1.96350      1.88793      1.82001
  3859044.00 |       2.66522      2.50815      2.37295      2.25274      2.14750
 2.05318      1.97048      1.89486      1.82642
  3859022.43 |       2.67233      2.51623      2.38048      2.26202      2.15557
 2.06116      1.97776      1.90190      1.83337
  3859000.86 |       2.68123      2.52408      2.38943      2.27114      2.16460
 2.07002      1.98650      1.91066      1.84124
  3858979.29 |       2.68980      2.53306      2.39814      2.28028      2.17518
 2.08067      1.99651      1.91988      1.85071
  3858957.72 |       2.69851      2.54319      2.40806      2.28913      2.18646
 2.09222      2.00698      1.93132      1.86205
  3858936.15 |       2.70697      2.55288      2.41837      2.30002      2.19655
 2.10339      2.01940      1.94394      1.87431
  3858914.58 |       2.71659      2.56366      2.42977      2.31124      2.20725
 2.11560      2.03271      1.95731      1.88834
  3858893.01 |       2.72704      2.57504      2.44109      2.32405      2.22010
 2.12795      2.04707      1.97247      1.90444
  3858871.44 |       2.73798      2.58542      2.45247      2.33700      2.23424
 2.14185      2.06220      1.98826      1.92199
  3858849.87 |       2.75106      2.59908      2.46769      2.35259      2.25040
 2.15932      2.07936      2.00608      1.94064
  3858828.30 |       2.76843      2.61711      2.48533      2.37129      2.27007
 2.17899      2.09948      2.02682      1.96166
  3858806.73 |       2.79085      2.63904      2.50748      2.39368      2.29317
 2.20243      2.12219      2.04978      1.98560
  3858785.16 |       2.81850      2.66741      2.53541      2.42088      2.32036
 2.23020      2.15013      2.07691      2.01319
  3858763.59 |       2.85594      2.70393      2.57125      2.45589      2.35470
 2.26353      2.18362      2.11014      2.04569
  3858742.02 |       2.90668      2.75100      2.61766      2.50037      2.39608
 2.30299      2.22415      2.15053      2.08487
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489704.04	489728.69	489753.34
3859173.42	1.72950	1.67213	1.61895
3859151.85	1.73447	1.67728	1.62445
3859130.28	1.74002	1.68303	1.63019
3859108.71	1.74590	1.68833	1.63571
3859087.14	1.75173	1.69465	1.64269
3859065.57	1.75820	1.70128	1.64949
3859044.00	1.76469	1.70768	1.65608
3859022.43	1.77165	1.71466	1.66320
3859000.86	1.77910	1.72231	1.67147
3858979.29	1.78829	1.73146	1.68064
3858957.72	1.80016	1.74323	1.69031
3858936.15	1.81257	1.75523	1.70304
3858914.58	1.82652	1.77000	1.71763
3858893.01	1.84321	1.78653	1.73456
3858871.44	1.86132	1.80432	1.75327
3858849.87	1.88060	1.82513	1.77456
3858828.30	1.90226	1.84772	1.79761
3858806.73	1.92693	1.87298	1.82381
3858785.16	1.95421	1.90104	1.85272
3858763.59	1.98674	1.93341	1.88524
3858742.02	2.02574	1.97120	1.92291

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)					
	488584.66	488614.48	488644.30	488674.12	488703.94	488733.76
488763.58	488793.40	488823.22				
3858904.98	0.50510	0.52589	0.54989	0.57527	0.60430	0.63667
0.67502	0.71144	0.75570				
3858880.05	0.50477	0.52633	0.54952	0.57378	0.60421	0.63753
0.67139	0.71020	0.75088				
3858855.12	0.50364	0.52497	0.54971	0.57522	0.60317	0.63653
0.66431	0.70570	0.74902				
3858830.19	0.49966	0.52229	0.55003	0.57917	0.60120	0.63040
0.66308	0.70107	0.74453				
3858805.26	0.49672	0.52461	0.54548	0.57255	0.59842	0.62937
0.66250	0.69964	0.74107				
3858780.33	0.48657	0.51031	0.53731	0.56631	0.59654	0.62774
0.66174	0.69879	0.73933				
3858755.40	0.47822	0.50097	0.52791	0.55705	0.58829	0.62266
0.65782	0.69621	0.73797				
3858730.47	0.47172	0.49398	0.51920	0.54608	0.57667	0.61139
0.64875	0.68921	0.73377				
3858705.54	0.46550	0.48669	0.51144	0.53700	0.56550	0.59824
0.63587	0.67799	0.72365				
3858680.61	0.45904	0.47962	0.50547	0.53048	0.55799	

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489002.14    489031.96    489061.78    489091.60
 - - -
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 ,
L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 ,
L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489121.42	489151.24	489181.06
3858904.98	2.21282	2.79013	3.89943
3858880.05	2.21237	2.81262	3.90464
3858855.12	2.21540	2.82290	3.92477
3858830.19	2.21906	2.80944	3.93765
3858805.26	2.19088	2.81797	3.94217
3858780.33	2.16873	2.78350	3.93019
3858755.40	2.14104	2.74959	3.87377
3858730.47	2.09262	2.67541	3.73623
3858705.54	2.02351	2.54856	3.45169
3858680.61	1.92853	2.37582	3.14134
3858655.68	1.83415	2.22289	2.86447
3858630.75	1.75217	2.08342	2.62466
3858605.82	1.68877	1.98485	2.44525
3858580.89	1.63338	1.90982	2.30779
3858555.96	1.56465	1.82059	2.17083
3858531.03	1.47475	1.71553	2.04228
3858506.10	1.38098	1.59421	1.88205
3858481.17	1.29383	1.47542	1.71405
3858456.24	1.21252	1.36199	1.55946
3858431.31	1.14435	1.27341	1.43117
3858406.38	1.07785	1.18784	1.32156

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489386.10	489460.62	489535.14	489609.66	489684.18	489758.70	489833.22	489907.74	489982.26
3861675.76	0.09414	0.09526	0.09569	0.09624	0.09612	0.09576	0.09544	0.09524	0.09518
3861650.62	0.09628	0.09726	0.09818	0.09870	0.09846	0.09788	0.09749	0.09743	0.09695
3861625.48	0.09844	0.09914	0.10031	0.10087	0.10069	0.10027	0.09970	0.09984	0.09923
3861600.34	0.10055	0.10176	0.10245	0.10312	0.10341	0.10320	0.10227	0.10192	0.10206
3861575.20	0.10371	0.10387	0.10453	0.10546	0.10577	0.10509	0.10443	0.10390	0.10456
3861550.06	0.10610	0.10620	0.10712	0.10773	0.10739	0.10678	0.10641	0.10631	0.10685
3861524.92	0.10837	0.10878	0.10967	0.10995	0.10941	0.10888	0.10863	0.10869	0.10897
3861499.78	0.11073	0.11132	0.11216	0.11247	0.11204	0.11116	0.11110	0.11126	0.11189
3861474.64	0.11320	0.11389	0.11475	0.11518	0.11494	0.11369	0.11376	0.11395	0.11532
3861449.50	0.11561	0.11656	0.11745	0.11775	0.11710	0.11667	0.11664	0.11677	0.11736
3861424.36	0.11830	0.11944	0.12016	0.12034	0.12002	0.11948	0.11974	0.12053	0.12002

```
 3861675.76 |       0.09556      0.09598      0.09586      0.09603      0.09648
0.09663      0.09666      0.09643      0.09658
 3861650.62 |       0.09733      0.09782      0.09812      0.09878      0.09843
0.09860      0.09856      0.09891      0.09936
 3861625.48 |       0.09955      0.10023      0.10084      0.10183      0.10112
0.10134      0.10116      0.10177      0.10205
 3861600.34 |       0.10238      0.10305      0.10380      0.10457      0.10488
0.10508      0.10479      0.10443      0.10401
 3861575.20 |       0.10449      0.10498      0.10620      0.10674      0.10688
0.10708      0.10694      0.10677      0.10609
 3861550.06 |       0.10676      0.10791      0.10863      0.10944      0.10921
0.10988      0.10916      0.10890      0.10830
 3861524.92 |       0.10954      0.11037      0.11091      0.11200      0.11226
0.11203      0.11151      0.11116      0.11066
 3861499.78 |       0.11225      0.11267      0.11382      0.11499      0.11516
0.11437      0.11387      0.11350      0.11312
 3861474.64 |       0.11465      0.11535      0.11734      0.11816      0.11744
0.11720      0.11646      0.11594      0.11557
 3861449.50 |       0.11724      0.11925      0.12046      0.12031      0.11965
0.11965      0.11929      0.11869      0.11820
 3861424.36 |       0.12011      0.12135      0.12309      0.12280      0.12222
0.12233      0.12175      0.12144      0.12091
 3861399.22 |       0.12305      0.12413      0.12529      0.12523      0.12495
0.12498      0.12446      0.12419      0.12370
 3861374.08 |       0.12630      0.12729      0.12819      0.12790      0.12780
0.12782      0.12747      0.12724      0.12679
 3861348.94 |       0.12972      0.13043      0.13144      0.13091      0.13084
0.13079      0.13064      0.13039      0.13007
 3861323.80 |       0.13323      0.13372      0.13408      0.13421      0.13428
0.13417      0.13400      0.13374      0.13354
 3861298.66 |       0.13692      0.13770      0.13734      0.13768      0.13765
0.13783      0.13773      0.13785      0.13713
 3861273.52 |       0.14061      0.14094      0.14112      0.14132      0.14130
0.14190      0.14161      0.14156      0.14117
 3861248.38 |       0.14469      0.14462      0.14500      0.14508      0.14528
0.14588      0.14584      0.14643      0.14535
 3861223.24 |       0.14908      0.14888      0.14919      0.14964      0.14971
0.15032      0.15062      0.15142      0.14984
 3861198.10 |       0.15370      0.15348      0.15385      0.15481      0.15446
0.15545      0.15579      0.15598      0.15466
 3861172.96 |       0.15891      0.15814      0.15882      0.15936      0.15956
0.16034      0.16091      0.16069      0.15963
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                         ***        01:16:45

                                    PAGE 284
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 490727.46	490801.98	490876.50
3861675.76	0.09740	0.09668	0.09665
3861650.62	0.09981	0.09916	0.09910
3861625.48	0.10158	0.10121	0.10094
3861600.34	0.10351	0.10329	0.10281
3861575.20	0.10567	0.10539	0.10487
3861550.06	0.10787	0.10760	0.10703
3861524.92	0.11034	0.10985	0.10936
3861499.78	0.11275	0.11246	0.11186
3861474.64	0.11516	0.11514	0.11456
3861449.50	0.11789	0.11747	0.11734
3861424.36	0.12050	0.12031	0.11988
3861399.22	0.12360	0.12317	0.12294
3861374.08	0.12674	0.12632	0.12608
3861348.94	0.12984	0.12970	0.12943
3861323.80	0.13325	0.13310	0.13302
3861298.66	0.13754	0.13735	0.13669
3861273.52	0.14126	0.14127	0.14044
3861248.38	0.14525	0.14544	0.14451
3861223.24	0.14968	0.14980	0.14876
3861198.10	0.15423	0.15410	0.15293
3861172.96	0.15891	0.15841	0.15737

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 ,
L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 ,
L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	491611.20	491641.99	491672.78	491703.57	491734.36	491765.15	491795.94	491826.73	491857.52
3861693.54	0.09441	0.09441	0.09449	0.09419	0.09402	0.09384	0.09379	0.09379	0.09378
3861664.09	0.09652	0.09647	0.09628	0.09622	0.09612	0.09601	0.09591	0.09577	0.09559
3861634.64	0.09879	0.09868	0.09852	0.09845	0.09833	0.09808	0.09814	0.09794	0.09770
3861605.19	0.10104	0.10100	0.10083	0.10070	0.10066	0.10044	0.10036	0.10018	0.10001
3861575.74	0.10346	0.10336	0.10317	0.10308	0.10288	0.10274	0.10264	0.10245	0.10227
3861546.29	0.10591	0.10585	0.10560	0.10543	0.10532	0.10516	0.10510	0.10489	0.10478
3861516.84	0.10850	0.10837	0.10820	0.10797	0.10779	0.10757	0.10739	0.10727	0.10710
3861487.39	0.11113	0.11098	0.11084	0.11059	0.11035	0.11010	0.10991	0.10972	0.10953
3861457.94	0.11384	0.11363	0.11342	0.11320	0.11299	0.11272	0.11251	0.11236	0.11215
3861428.49	0.11677	0.11642	0.11624	0.11601	0.11578	0.11554	0.11531	0.11508	0.11481
3861399.04	0.11975	0.11938	0.11918	0.11886	0.11866	0.11841	0.11810	0.11780	0.11755
3861369.59	0.12272	0.12238	0.12216	0.12182	0.12154	0.12132	0.12099	0.12072	0.12045
3861340.14	0.12580	0.12549	0.12519	0.12488	0.12458				

0.12428 0.12398 0.12380 0.12339
3861310.69 | 0.12905 0.12866 0.12833 0.12800 0.12767
0.12741 0.12708 0.12682 0.12644
3861281.24 | 0.13250 0.13208 0.13165 0.13136 0.13100
0.13064 0.13029 0.12994 0.12965
3861251.79 | 0.13608 0.13562 0.13517 0.13484 0.13439
0.13400 0.13362 0.13330 0.13292
3861222.34 | 0.13981 0.13931 0.13882 0.13839 0.13797
0.13748 0.13707 0.13671 0.13636
3861192.89 | 0.14361 0.14314 0.14275 0.14229 0.14169
0.14116 0.14064 0.14032 0.14000
3861163.44 | 0.14763 0.14720 0.14691 0.14633 0.14562
0.14497 0.14462 0.14412 0.14376
3861133.99 | 0.15166 0.15149 0.15108 0.15046 0.14969
0.14900 0.14874 0.14791 0.14744
3861104.54 | 0.15600 0.15563 0.15511 0.15451 0.15383
0.15309 0.15227 0.15168 0.15117
↟ *** AERMOD - VERSION 23132 *** *** C:\Users\dlarocca\Desktop\Lakes Files\15054 Lennwood\Lennwood\Lennwo *** 07/17/24
*** AERMET - VERSION 19191 *** *** 01:16:45

PAGE 286
*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 ,
L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 ,
L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS) | X-COORD (METERS)
491888.31 491919.10 491949.89 491980.68 492011.47 492042.26 492073.05 492103.84 492134.63
- - - -

```
 3861664.09 |       0.09553      0.09536      0.09527      0.09532      0.09528
0.09521      0.09465      0.09455      0.09452
 3861634.64 |       0.09755      0.09749      0.09748      0.09743      0.09743
0.09738      0.09718      0.09672      0.09652
 3861605.19 |       0.09989      0.09978      0.09971      0.09960      0.09950
0.09949      0.09931      0.09918      0.09887
 3861575.74 |       0.10223      0.10205      0.10192      0.10189      0.10174
0.10180      0.10187      0.10141      0.10139
 3861546.29 |       0.10463      0.10449      0.10435      0.10421      0.10426
0.10409      0.10379      0.10362      0.10353
 3861516.84 |       0.10707      0.10691      0.10671      0.10651      0.10660
0.10645      0.10603      0.10594      0.10575
 3861487.39 |       0.10945      0.10932      0.10919      0.10898      0.10886
0.10889      0.10844      0.10824      0.10808
 3861457.94 |       0.11195      0.11180      0.11161      0.11152      0.11134
0.11141      0.11088      0.11070      0.11052
 3861428.49 |       0.11453      0.11437      0.11421      0.11405      0.11385
0.11390      0.11350      0.11325      0.11300
 3861399.04 |       0.11731      0.11713      0.11695      0.11672      0.11649
0.11648      0.11610      0.11583      0.11560
 3861369.59 |       0.12024      0.11987      0.11978      0.11947      0.11922
0.11913      0.11868      0.11843      0.11829
 3861340.14 |       0.12327      0.12276      0.12259      0.12231      0.12204
0.12193      0.12155      0.12129      0.12102
 3861310.69 |       0.12624      0.12581      0.12550      0.12525      0.12501
0.12488      0.12447      0.12424      0.12389
 3861281.24 |       0.12930      0.12896      0.12862      0.12829      0.12814
0.12775      0.12738      0.12712      0.12680
 3861251.79 |       0.13248      0.13216      0.13186      0.13155      0.13131
0.13084      0.13049      0.13009      0.12975
 3861222.34 |       0.13589      0.13560      0.13526      0.13487      0.13448
0.13403      0.13372      0.13335      0.13292
 3861192.89 |       0.13961      0.13917      0.13879      0.13836      0.13793
0.13733      0.13705      0.13671      0.13631
 3861163.44 |       0.14333      0.14285      0.14237      0.14190      0.14151
0.14086      0.14049      0.14018      0.13969
 3861133.99 |       0.14684      0.14645      0.14593      0.14536      0.14486
0.14438      0.14397      0.14357      0.14304
 3861104.54 |       0.15059      0.15002      0.14946      0.14891      0.14845
0.14800      0.14755      0.14705      0.14656
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 287
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1   ***
```

Y-COORD (METERS)	X-COORD (METERS)		
	492165.42	492196.21	492227.00
3861693.54	0.09249	0.09239	0.09237
3861664.09	0.09446	0.09438	0.09435
3861634.64	0.09627	0.09643	0.09630
3861605.19	0.09848	0.09846	0.09831
3861575.74	0.10088	0.10059	0.10047
3861546.29	0.10332	0.10314	0.10286
3861516.84	0.10569	0.10545	0.10529
3861487.39	0.10796	0.10779	0.10761
3861457.94	0.11034	0.11015	0.11000
3861428.49	0.11284	0.11263	0.11242
3861399.04	0.11543	0.11520	0.11502
3861369.59	0.11805	0.11785	0.11765
3861340.14	0.12075	0.12054	0.12037
3861310.69	0.12360	0.12326	0.12307
3861281.24	0.12643	0.12612	0.12587
3861251.79	0.12942	0.12902	0.12869
3861222.34	0.13256	0.13214	0.13166
3861192.89	0.13586	0.13535	0.13485
3861163.44	0.13921	0.13867	0.13819
3861133.99	0.14259	0.14220	0.14175
3861104.54	0.14607	0.14571	0.14523

VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074
, L0001075 , L0001076 , L0001077 ,
L0001078 , L0001079 , L0001080 , L0001081 , L0001082
, L0001083 , L0001084 , L0001085 ,
L0001086 , L0001087 , L0001088 , L0001089 , L0001090
, L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098
, L0001099 , L0001100 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488802.97	3861310.09	0.13950	488863.58	3861309.29	0.13923
488847.63	3861279.78	0.14328	488850.82	3861262.24	0.14594
488810.14	3861261.44	0.14662	488810.94	3861289.36	0.14216
488819.72	3861306.90	0.13940	488816.53	3861235.92	0.15062
488841.25	3861126.66	0.17468	488879.53	3861121.88	0.17497
488913.82	3861121.08	0.17489	488925.79	3861092.37	0.18340
488920.03	3861067.49	0.19251	488996.74	3861113.92	0.17639
488974.03	3861097.77	0.18261	488931.63	3860976.64	0.21699
488935.67	3861034.68	0.20265	488959.90	3861061.43	0.19541
489165.81	3861208.80	0.15397	489317.74	3861109.28	0.16929
489385.87	3861014.75	0.19411	489372.24	3861112.69	0.16952
489420.79	3861106.73	0.17163	489436.12	3861037.74	0.18750
489488.07	3861036.89	0.18917	489473.59	3861110.99	0.17141
489431.01	3861167.20	0.16008	489662.66	3860915.95	0.23661
489644.78	3861076.07	0.18028	489659.26	3861099.06	0.17428

```
        489735.91    3861020.71        0.19746                    489700.14
3861029.23        0.19465
        489708.65    3861062.44        0.18501                    489779.34
3861099.06        0.17566
        489835.95    3859138.59        1.47790                    489885.95
3859138.59        1.40169
        489935.95    3859138.59        1.33668                    489985.95
3859138.59        1.27738
        490035.95    3859138.59        1.22592                    490085.95
3859138.59        1.18372
        490135.95    3859138.59        1.14710                    490185.95
3859138.59        1.11291
        490235.95    3859138.59        1.08036                    490285.95
3859138.59        1.04143
        490335.95    3859138.59        0.99841                    490385.95
3859138.59        0.95028
        490435.95    3859138.59        0.92128                    490485.95
3859138.59        0.88343
        490535.95    3859138.59        0.83579                    490585.95
3859138.59        0.79917
        490635.95    3859138.59        0.75688                    490685.95
3859138.59        0.71881
        490735.95    3859138.59        0.69008                    490785.95
3859138.59        0.65969
        490835.95    3859138.59        0.62600                    490885.95
3859138.59        0.59545
        489835.95    3859188.59        1.46411                    489885.95
3859188.59        1.38744
        489935.95    3859188.59        1.32235                    489985.95
3859188.59        1.26320
        490035.95    3859188.59        1.21447                    490085.95
3859188.59        1.17279
        490135.95    3859188.59        1.13343                    490185.95
3859188.59        1.09573
        490235.95    3859188.59        1.05712                    490285.95
3859188.59        1.01825
        490335.95    3859188.59        0.98158                    490385.95
3859188.59        0.94314
        490435.95    3859188.59        0.90304                    490485.95
3859188.59        0.85338
        490535.95    3859188.59        0.81437                    490585.95
3859188.59        0.78270
        490635.95    3859188.59        0.73635                    490685.95
3859188.59        0.68239
        490735.95    3859188.59        0.64542                    490785.95
3859188.59        0.60963
        490835.95    3859188.59        0.60529                    490885.95
3859188.59        0.57869
        489835.95    3859238.59        1.45047                    489885.95
3859238.59        1.37592
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
489935.95	3859238.59	1.30960	489985.95	3859238.59	1.24934
490035.95	3859238.59	1.20229	490085.95	3859238.59	1.16037
490135.95	3859238.59	1.12046	490185.95	3859238.59	1.08215
490235.95	3859238.59	1.04309	490285.95	3859238.59	1.00170
490335.95	3859238.59	0.96234	490385.95	3859238.59	0.92804
490435.95	3859238.59	0.89235	490485.95	3859238.59	0.86088
490535.95	3859238.59	0.81404	490585.95	3859238.59	0.77002
490635.95	3859238.59	0.73035	490685.95	3859238.59	0.70274
490735.95	3859238.59	0.66963	490785.95	3859238.59	0.64087
490835.95	3859238.59	0.61933	490885.95	3859238.59	0.59354
489835.95	3859288.59	1.44010	489885.95		

3859288.59 1.36493
489935.95 3859288.59 1.29847 489985.95
3859288.59 1.23815
490035.95 3859288.59 1.19217 490085.95
3859288.59 1.14799
490135.95 3859288.59 1.10693 490185.95
3859288.59 1.06793
490235.95 3859288.59 1.02898 490285.95
3859288.59 0.99302
490335.95 3859288.59 0.95374 490385.95
3859288.59 0.91512
490435.95 3859288.59 0.87143 490485.95
3859288.59 0.84654
490535.95 3859288.59 0.82684 490585.95
3859288.59 0.78657
490635.95 3859288.59 0.75992 490685.95
3859288.59 0.72472
490735.95 3859288.59 0.68212 490785.95
3859288.59 0.65739
490835.95 3859288.59 0.63434 490885.95
3859288.59 0.60885
489835.95 3859338.59 1.43297 489885.95
3859338.59 1.35878
489935.95 3859338.59 1.28896 489985.95
3859338.59 1.23270
490035.95 3859338.59 1.18338 490085.95
3859338.59 1.13835
490135.95 3859338.59 1.09496 490185.95
3859338.59 1.05543
490235.95 3859338.59 1.01910 490285.95
3859338.59 0.98472
490335.95 3859338.59 0.94821 490385.95
3859338.59 0.91404
490435.95 3859338.59 0.88243 490485.95
3859338.59 0.85109
490535.95 3859338.59 0.82154 490585.95
3859338.59 0.79188
490635.95 3859338.59 0.76527 490685.95
3859338.59 0.73063
490735.95 3859338.59 0.69543 490785.95
3859338.59 0.66809
490835.95 3859338.59 0.65489 490885.95
3859338.59 0.62894
489835.95 3859388.59 1.42325 489885.95
3859388.59 1.34879
489935.95 3859388.59 1.28575 489985.95
3859388.59 1.22669
490035.95 3859388.59 1.17603 490085.95
3859388.59 1.12904
490135.95 3859388.59 1.08470 490185.95

3859388.59 1.04451
 490235.95 3859388.59 1.00944 490285.95
3859388.59 0.97752
 490335.95 3859388.59 0.94506 490385.95
3859388.59 0.91399
 490435.95 3859388.59 0.88536 490485.95
3859388.59 0.85655
 490535.95 3859388.59 0.82734 490585.95
3859388.59 0.80056

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 ,
L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 ,
L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490635.95	3859388.59	0.76944	490685.95	3859388.59	0.72870
490735.95	3859388.59	0.68489	490785.95	3859388.59	0.67049
490835.95	3859388.59	0.66694	490885.95	3859388.59	0.64955
489835.95	3859438.59	1.42212	489885.95	3859438.59	1.34548
489935.95	3859438.59	1.27937	489985.95	3859438.59	1.22122
490035.95	3859438.59	1.16881	490085.95	3859438.59	1.11920

490135.95 3859438.59 1.07496 490185.95
3859438.59 1.03537
490235.95 3859438.59 1.00062 490285.95
3859438.59 0.96898
490335.95 3859438.59 0.93869 490385.95
3859438.59 0.90905
490435.95 3859438.59 0.88038 490485.95
3859438.59 0.85197
490535.95 3859438.59 0.82492 490585.95
3859438.59 0.79796
490635.95 3859438.59 0.76940 490685.95
3859438.59 0.74254
490735.95 3859438.59 0.71859 490785.95
3859438.59 0.68882
490835.95 3859438.59 0.67248 490885.95
3859438.59 0.65710
490085.95 3859488.59 1.11043 490135.95
3859488.59 1.06681
490185.95 3859488.59 1.02803 490235.95
3859488.59 0.99227
490285.95 3859488.59 0.96016 490335.95
3859488.59 0.93011
490385.95 3859488.59 0.90140 490435.95
3859488.59 0.87406
490485.95 3859488.59 0.84717 490535.95
3859488.59 0.82087
490585.95 3859488.59 0.79374 490635.95
3859488.59 0.76812
490685.95 3859488.59 0.74407 490735.95
3859488.59 0.71860
490785.95 3859488.59 0.69562 490835.95
3859488.59 0.67709
490885.95 3859488.59 0.65764 490085.95
3859538.59 1.10146
490135.95 3859538.59 1.05839 490185.95
3859538.59 1.01995
490235.95 3859538.59 0.98457 490285.95
3859538.59 0.95174
490335.95 3859538.59 0.92066 490385.95
3859538.59 0.89256
490435.95 3859538.59 0.86584 490485.95
3859538.59 0.84006
490535.95 3859538.59 0.81486 490585.95
3859538.59 0.78939
490635.95 3859538.59 0.76505 490685.95
3859538.59 0.74180
490735.95 3859538.59 0.71753 490785.95
3859538.59 0.69585
490835.95 3859538.59 0.67618 490885.95
3859538.59 0.65185

```
         490135.95    3859588.59        1.04984                       490185.95
3859588.59        1.01202
         490235.95    3859588.59        0.97589                       490285.95
3859588.59        0.94252
         490335.95    3859588.59        0.91189                       490385.95
3859588.59        0.88297
         490435.95    3859588.59        0.85616                       490485.95
3859588.59        0.83118
         490535.95    3859588.59        0.80654                       490585.95
3859588.59        0.78295
         490635.95    3859588.59        0.75888                       490685.95
3859588.59        0.73642
         490735.95    3859588.59        0.71353                       490785.95
3859588.59        0.69139
         490835.95    3859588.59        0.67191                       490885.95
3859588.59        0.65137
         490135.95    3859638.59        1.04365                       490185.95
3859638.59        1.00249
```

```
                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                  L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                  L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                  L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         490235.95    3859638.59        0.96732                       490285.95
3859638.59        0.93270
         490335.95    3859638.59        0.90236                       490385.95
```

3859638.59 0.87388
490435.95 3859638.59 0.84638 490485.95
3859638.59 0.82022
490535.95 3859638.59 0.79689 490585.95
3859638.59 0.77394
490635.95 3859638.59 0.75158 490685.95
3859638.59 0.72930
490735.95 3859638.59 0.70730 490785.95
3859638.59 0.68675
490835.95 3859638.59 0.66827 490885.95
3859638.59 0.65078
490135.95 3859688.59 1.03496 490185.95
3859688.59 0.99512
490235.95 3859688.59 0.95837 490285.95
3859688.59 0.92590
490335.95 3859688.59 0.89391 490385.95
3859688.59 0.86325
490435.95 3859688.59 0.83668 490485.95
3859688.59 0.81041
490535.95 3859688.59 0.78626 490585.95
3859688.59 0.76406
490635.95 3859688.59 0.74252 490685.95
3859688.59 0.72134
490735.95 3859688.59 0.70021 490785.95
3859688.59 0.68047
490835.95 3859688.59 0.66267 490885.95
3859688.59 0.64847
490085.95 3859738.59 1.07171 490135.95
3859738.59 1.02756
490185.95 3859738.59 0.98618 490235.95
3859738.59 0.94818
490285.95 3859738.59 0.91569 490335.95
3859738.59 0.88257
490385.95 3859738.59 0.85509 490435.95
3859738.59 0.82655
490485.95 3859738.59 0.80035 490535.95
3859738.59 0.77539
490585.95 3859738.59 0.75262 490635.95
3859738.59 0.73290
490685.95 3859738.59 0.71273 490735.95
3859738.59 0.69371
490785.95 3859738.59 0.67564 490835.95
3859738.59 0.65813
490885.95 3859738.59 0.64183 490085.95
3859788.59 1.06436
490135.95 3859788.59 1.01954 490185.95
3859788.59 0.97821
490235.95 3859788.59 0.94009 490285.95
3859788.59 0.90406
490335.95 3859788.59 0.87140 490385.95

```
3859788.59        0.84064
         490435.95    3859788.59        0.81448                        490485.95
3859788.59        0.78865
         490535.95    3859788.59        0.76490                        490585.95
3859788.59        0.74169
         490635.95    3859788.59        0.72185                        490685.95
3859788.59        0.70290
         490735.95    3859788.59        0.68435                        490785.95
3859788.59        0.66694
         490835.95    3859788.59        0.64998                        490885.95
3859788.59        0.63144
         490085.95    3859838.59        1.05601                        490135.95
3859838.59        1.01072
         490185.95    3859838.59        0.96926                        490235.95
3859838.59        0.93140
         490285.95    3859838.59        0.89533                        490335.95
3859838.59        0.86104
         490385.95    3859838.59        0.83025                        490435.95
3859838.59        0.80237
         490485.95    3859838.59        0.77649                        490535.95
3859838.59        0.75307
         490585.95    3859838.59        0.73045                        490635.95
3859838.59        0.70940
         490685.95    3859838.59        0.68946                        490735.95
3859838.59        0.67145
         490785.95    3859838.59        0.65587                        490835.95
3859838.59        0.63917
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1   ***
                                INCLUDING SOURCE(S):   L0001073   , L0001074 , L0001075   , L0001076   , L0001077   ,
                 L0001078   , L0001079   , L0001080   , L0001081   , L0001082 , L0001083   , L0001084   , L0001085   ,
                 L0001086   , L0001087   , L0001088   , L0001089   , L0001090 , L0001091   , L0001092   , L0001093   ,
                 L0001094   , L0001095   , L0001096   , L0001097   , L0001098 , L0001099   , L0001100   , . . .   ,

                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490885.95	3859838.59	0.62283	490085.95	3859888.59	1.04615
490135.95	3859888.59	1.00056	490185.95	3859888.59	0.95928
490235.95	3859888.59	0.92043	490285.95	3859888.59	0.88380
490335.95	3859888.59	0.85001	490385.95	3859888.59	0.81869
490435.95	3859888.59	0.78925	490485.95	3859888.59	0.76269
490535.95	3859888.59	0.73945	490585.95	3859888.59	0.71830
490635.95	3859888.59	0.69724	490685.95	3859888.59	0.67754
490735.95	3859888.59	0.65901	490785.95	3859888.59	0.64128
490835.95	3859888.59	0.62497	490885.95	3859888.59	0.61131
490135.95	3859938.59	0.98930	490185.95	3859938.59	0.94709
490235.95	3859938.59	0.90808	490285.95	3859938.59	0.87137
490335.95	3859938.59	0.83685	490385.95	3859938.59	0.80522
490435.95	3859938.59	0.77542	490485.95	3859938.59	0.74816
490535.95	3859938.59	0.72541	490585.95	3859938.59	0.70443
490635.95	3859938.59	0.68332	490685.95	3859938.59	0.66497
490735.95	3859938.59	0.64677	490785.95	3859938.59	0.62894
490835.95	3859938.59	0.61212	490885.95	3859938.59	0.59404
490135.95	3859988.59	0.97605	490185.95	3859988.59	0.93374
490235.95	3859988.59	0.89526	490285.95	3859988.59	0.85827
490335.95	3859988.59	0.82382	490385.95	3859988.59	0.79054
490435.95	3859988.59	0.76030	490485.95	3859988.59	0.73326
490535.95	3859988.59	0.70928	490585.95	3859988.59	0.68794

```
         490635.95    3859988.59        0.66839                      490685.95
3859988.59        0.65046
         490735.95    3859988.59        0.63200                      490785.95
3859988.59        0.61434
         490835.95    3859988.59        0.59723                      490885.95
3859988.59        0.57979
         490135.95    3860038.59        0.96062                      490185.95
3860038.59        0.91770
         490235.95    3860038.59        0.87805                      490285.95
3860038.59        0.84080
         490335.95    3860038.59        0.80711                      490385.95
3860038.59        0.77416
         490435.95    3860038.59        0.74405                      490485.95
3860038.59        0.71678
         490535.95    3860038.59        0.69272                      490585.95
3860038.59        0.67040
         490635.95    3860038.59        0.64879                      490685.95
3860038.59        0.63087
         490735.95    3860038.59        0.61549                      490785.95
3860038.59        0.59800
         490835.95    3860038.59        0.58111                      490885.95
3860038.59        0.56405
         490135.95    3860088.59        0.94188                      490185.95
3860088.59        0.89952
         490235.95    3860088.59        0.85941                      490285.95
3860088.59        0.82233
         490335.95    3860088.59        0.78748                      490385.95
3860088.59        0.75535
         490435.95    3860088.59        0.72569                      490485.95
3860088.59        0.69787
         490535.95    3860088.59        0.67381                      490585.95
3860088.59        0.65182
         490635.95    3860088.59        0.63064                      490685.95
3860088.59        0.61212
         490735.95    3860088.59        0.59536                      490785.95
3860088.59        0.57953
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
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                                   PAGE 293
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1   ***
                                   INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
```

L0001086 , L0001087 , L0001088 , L0001089 , L0001090
, L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098
, L0001099 , L0001100 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490835.95	3860088.59	0.56286	490885.95	3860088.59	0.54638
490135.95	3860138.59	0.91860	490185.95	3860138.59	0.87622
490235.95	3860138.59	0.83617	490285.95	3860138.59	0.79954
490335.95	3860138.59	0.76561	490385.95	3860138.59	0.73387
490435.95	3860138.59	0.70406	490485.95	3860138.59	0.67738
490535.95	3860138.59	0.65383	490585.95	3860138.59	0.63164
490635.95	3860138.59	0.61100	490685.95	3860138.59	0.59163
490735.95	3860138.59	0.57418	490785.95	3860138.59	0.55895
490835.95	3860138.59	0.54285	490885.95	3860138.59	0.52605
490935.95	3860138.59	0.51017	490985.95	3860138.59	0.49636
491035.95	3860138.59	0.48358	490135.95	3860188.59	0.89081
490185.95	3860188.59	0.84879	490235.95	3860188.59	0.80941
490285.95	3860188.59	0.77309	490335.95	3860188.59	0.73962
490385.95	3860188.59	0.70882	490435.95	3860188.59	0.68058
490485.95	3860188.59	0.65438	490535.95	3860188.59	0.63097
490585.95	3860188.59	0.61019	490635.95	3860188.59	0.58954
490685.95	3860188.59	0.57134	490735.95	3860188.59	0.55299
490785.95	3860188.59	0.53704	490835.95		

```
3860188.59        0.52190
         490885.95    3860188.59        0.50590                    490935.95
3860188.59        0.49066
         490985.95    3860188.59        0.47733                    491035.95
3860188.59        0.46408
         491085.95    3860188.59        0.45094                    491135.95
3860188.59        0.43996
         490135.95    3860238.59        0.85708                    490185.95
3860238.59        0.81605
         490235.95    3860238.59        0.77796                    490285.95
3860238.59        0.74287
         490335.95    3860238.59        0.71066                    490385.95
3860238.59        0.68108
         490435.95    3860238.59        0.65426                    490485.95
3860238.59        0.62907
         490535.95    3860238.59        0.60656                    490585.95
3860238.59        0.58598
         490635.95    3860238.59        0.56685                    490685.95
3860238.59        0.54898
         490735.95    3860238.59        0.53192                    490785.95
3860238.59        0.51573
         490835.95    3860238.59        0.50029                    490885.95
3860238.59        0.48588
         490935.95    3860238.59        0.47213                    490985.95
3860238.59        0.46107
         491035.95    3860238.59        0.44801                    491085.95
3860238.59        0.43472
         491135.95    3860238.59        0.42336                    490135.95
3860288.59        0.81725
         490185.95    3860288.59        0.77757                    490235.95
3860288.59        0.74186
         490285.95    3860288.59        0.70830                    490335.95
3860288.59        0.67757
         490385.95    3860288.59        0.65006                    490435.95
3860288.59        0.62453
         490485.95    3860288.59        0.60122                    490535.95
3860288.59        0.57944
         490585.95    3860288.59        0.55951                    490635.95
3860288.59        0.54146
         490685.95    3860288.59        0.52484                    490735.95
3860288.59        0.50889
         490785.95    3860288.59        0.49398                    490835.95
3860288.59        0.47928
         490885.95    3860288.59        0.46587                    490935.95
3860288.59        0.45240
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490985.95	3860288.59	0.44136	491035.95	3860288.59	0.42944
491085.95	3860288.59	0.41765	490135.95	3860338.59	0.77103
490185.95	3860338.59	0.73393	490235.95	3860338.59	0.70088
490285.95	3860338.59	0.66972	490335.95	3860338.59	0.64128
490385.95	3860338.59	0.61553	490435.95	3860338.59	0.59198
490485.95	3860338.59	0.57032	490535.95	3860338.59	0.55088
490585.95	3860338.59	0.53218	490635.95	3860338.59	0.51516
490685.95	3860338.59	0.49943	490735.95	3860338.59	0.48459
490785.95	3860338.59	0.47153	490835.95	3860338.59	0.45761
490885.95	3860338.59	0.44467	490935.95	3860338.59	0.43217
490985.95	3860338.59	0.42020	491035.95	3860338.59	0.40941
491085.95	3860338.59	0.39903	490135.95	3860388.59	0.71882
490185.95	3860388.59	0.68506	490235.95	3860388.59	0.65502

490285.95 3860388.59 0.62718 490335.95
3860388.59 0.60173
490385.95 3860388.59 0.57831 490435.95
3860388.59 0.55710
490485.95 3860388.59 0.53800 490535.95
3860388.59 0.52007
490585.95 3860388.59 0.50352 490635.95
3860388.59 0.48771
490685.95 3860388.59 0.47348 490735.95
3860388.59 0.45947
490785.95 3860388.59 0.44652 490835.95
3860388.59 0.43468
490135.95 3860438.59 0.66164 490185.95
3860438.59 0.63294
490235.95 3860438.59 0.60651 490285.95
3860438.59 0.58223
490335.95 3860438.59 0.55963 490385.95
3860438.59 0.53943
490435.95 3860438.59 0.52083 490485.95
3860438.59 0.50365
490535.95 3860438.59 0.48806 490585.95
3860438.59 0.47317
490635.95 3860438.59 0.45918 490685.95
3860438.59 0.44628
490735.95 3860438.59 0.43432 490785.95
3860438.59 0.42239
490835.95 3860438.59 0.41196 490135.95
3860488.59 0.60375
490185.95 3860488.59 0.57947 490235.95
3860488.59 0.55667
490285.95 3860488.59 0.53645 490335.95
3860488.59 0.51725
490385.95 3860488.59 0.50018 490435.95
3860488.59 0.48509
490485.95 3860488.59 0.47001 490535.95
3860488.59 0.45580
490585.95 3860488.59 0.44262 490635.95
3860488.59 0.43075
490685.95 3860488.59 0.41882 490735.95
3860488.59 0.40817
490785.95 3860488.59 0.39788 490135.95
3860538.59 0.54614
490185.95 3860538.59 0.52764 490235.95
3860538.59 0.50793
490285.95 3860538.59 0.49088 490335.95
3860538.59 0.47564
490385.95 3860538.59 0.46201 490435.95
3860538.59 0.44901
490485.95 3860538.59 0.43700 490535.95
3860538.59 0.42710

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074
, L0001075 , L0001076 , L0001077 ,
L0001078 , L0001079 , L0001080 , L0001081 , L0001082
, L0001083 , L0001084 , L0001085 ,
L0001086 , L0001087 , L0001088 , L0001089 , L0001090
, L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098
, L0001099 , L0001100 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490785.95	3860538.59	0.37384	490135.95	3860588.59	0.49219
490185.95	3860588.59	0.47234	490235.95	3860588.59	0.45990
490285.95	3860588.59	0.44751	490335.95	3860588.59	0.43518
490385.95	3860588.59	0.42365	490435.95	3860588.59	0.41534
490485.95	3860588.59	0.40669	490535.95	3860588.59	0.39646
490585.95	3860588.59	0.38393	490635.95	3860588.59	0.37521
490685.95	3860588.59	0.36656	490735.95	3860588.59	0.35832
490785.95	3860588.59	0.35012	490135.95	3860638.59	0.44172
490185.95	3860638.59	0.42927	490235.95		

3860638.59 0.41632
490285.95 3860638.59 0.40566 490335.95
3860638.59 0.39682
490385.95 3860638.59 0.38806 490435.95
3860638.59 0.37937
490485.95 3860638.59 0.37152 490535.95
3860638.59 0.36476
490585.95 3860638.59 0.35660 490635.95
3860638.59 0.34940
490685.95 3860638.59 0.34204 490735.95
3860638.59 0.33435
490785.95 3860638.59 0.32766 490135.95
3860688.59 0.39330
490185.95 3860688.59 0.38746 490235.95
3860688.59 0.37777
490285.95 3860688.59 0.36683 490335.95
3860688.59 0.36092
490385.95 3860688.59 0.35478 490435.95
3860688.59 0.34809
490485.95 3860688.59 0.34110 490535.95
3860688.59 0.33529
490585.95 3860688.59 0.32958 490635.95
3860688.59 0.32399
490685.95 3860688.59 0.31868 490735.95
3860688.59 0.31268
490785.95 3860688.59 0.30753 490135.95
3860738.59 0.34868
490185.95 3860738.59 0.34217 490235.95
3860738.59 0.33684
490285.95 3860738.59 0.33213 490335.95
3860738.59 0.32753
490385.95 3860738.59 0.32328 490435.95
3860738.59 0.32053
490485.95 3860738.59 0.31511 490535.95
3860738.59 0.30850
490585.95 3860738.59 0.30354 490635.95
3860738.59 0.29905
490685.95 3860738.59 0.29526 490735.95
3860738.59 0.29136
490785.95 3860738.59 0.28777 490135.95
3860788.59 0.30927
490185.95 3860788.59 0.30619 490235.95
3860788.59 0.30291
490285.95 3860788.59 0.29980 490335.95
3860788.59 0.29647
490385.95 3860788.59 0.29440 490435.95
3860788.59 0.29140
490485.95 3860788.59 0.28912 490535.95
3860788.59 0.28510
490585.95 3860788.59 0.27990 490635.95

3860788.59   0.27603
         490685.95   3860788.59   0.27272   490735.95
3860788.59   0.26990
         490785.95   3860788.59   0.26620   489985.95
3860838.59   0.28028
         490035.95   3860838.59   0.27969   490085.95
3860838.59   0.27910
         490135.95   3860838.59   0.27811   490185.95
3860838.59   0.27582
         490235.95   3860838.59   0.27363   490285.95
3860838.59   0.27197
         490335.95   3860838.59   0.26970   490385.95
3860838.59   0.26770

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1   ***
                                   INCLUDING SOURCE(S):   L0001073   , L0001074 , L0001075   , L0001076   , L0001077   ,
                                      L0001078   , L0001079   , L0001080   , L0001081   , L0001082 , L0001083   , L0001084   , L0001085   ,
                                      L0001086   , L0001087   , L0001088   , L0001089   , L0001090 , L0001091   , L0001092   , L0001093   ,
                                      L0001094   , L0001095   , L0001096   , L0001097   , L0001098 , L0001099   , L0001100   , . . .   ,

                                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                                   ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

```
         490835.95    3860838.59        0.24488                    489835.95
3860888.59        0.25123
         489885.95    3860888.59        0.25135                    489935.95
3860888.59        0.25146
         489985.95    3860888.59        0.25174                    490035.95
3860888.59        0.25175
         490085.95    3860888.59        0.25182                    490135.95
3860888.59        0.25116
         490185.95    3860888.59        0.24990                    490235.95
3860888.59        0.24884
         490285.95    3860888.59        0.24767                    490335.95
3860888.59        0.24624
         490385.95    3860888.59        0.24543                    490435.95
3860888.59        0.24467
         490485.95    3860888.59        0.24331                    490535.95
3860888.59        0.24154
         490585.95    3860888.59        0.23929                    490635.95
3860888.59        0.23671
         490685.95    3860888.59        0.23439                    490735.95
3860888.59        0.23218
         490785.95    3860888.59        0.22967                    490835.95
3860888.59        0.22766
         490885.95    3860888.59        0.22611                    490935.95
3860888.59        0.22394
         489835.95    3860938.59        0.22756                    489885.95
3860938.59        0.22716
         489935.95    3860938.59        0.22730                    489985.95
3860938.59        0.22752
         490035.95    3860938.59        0.22767                    490085.95
3860938.59        0.22771
         490135.95    3860938.59        0.22701                    490185.95
3860938.59        0.22707
         490235.95    3860938.59        0.22691                    490285.95
3860938.59        0.22676
         490335.95    3860938.59        0.22593                    490385.95
3860938.59        0.22581
         490435.95    3860938.59        0.22548                    490485.95
3860938.59        0.22452
         490535.95    3860938.59        0.22343                    490585.95
3860938.59        0.22170
         490635.95    3860938.59        0.21978                    490685.95
3860938.59        0.21792
         490735.95    3860938.59        0.21600                    490785.95
3860938.59        0.21412
         490835.95    3860938.59        0.21282                    490885.95
3860938.59        0.21165
         490935.95    3860938.59        0.20982                    489835.95
3860988.59        0.20888
         489885.95    3860988.59        0.20861                    489935.95
3860988.59        0.20822
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```
         489985.95    3860988.59        0.20799                      490035.95
3860988.59        0.20781
         490085.95    3860988.59        0.20799                      490135.95
3860988.59        0.20795
         490185.95    3860988.59        0.20848                      490235.95
3860988.59        0.20811
         490285.95    3860988.59        0.20804                      490335.95
3860988.59        0.20812
         490385.95    3860988.59        0.20817                      490435.95
3860988.59        0.20859
         490485.95    3860988.59        0.20806                      490535.95
3860988.59        0.20700
         490585.95    3860988.59        0.20584                      490635.95
3860988.59        0.20470
         490685.95    3860988.59        0.20309                      490735.95
3860988.59        0.20135
         490785.95    3860988.59        0.19992                      490835.95
3860988.59        0.19876
         490885.95    3860988.59        0.19786                      490935.95
3860988.59        0.19633
         489835.95    3861038.59        0.19304                      489885.95
3861038.59        0.19302
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 297
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                  L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                  L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                  L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - -

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1   ***
                                   INCLUDING SOURCE(S):   L0000494   , L0000495 , L0000496   , L0000497   , L0000498   ,
                                      L0000499   , L0000500   , L0000501   , L0000502   , L0000503 , L0000504   , L0000505   , L0000506   ,
                                      L0000507   , L0000508   , L0000509   , L0000510   , L0000511 , L0000512   , L0000513   , L0000514   ,
                                      L0000515   , L0000516   , L0000517   , L0000518   , L0000519 , L0000520   , L0000521   , . . .   ,

                                    *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489237.26   489256.56   489275.86   489295.16   489314.46   489333.76   489353.06   489372.36   489391.66
 -

  3859957.07 | 0.33678   0.32235   0.31355   0.30509   0.29717   0.29139   0.28956   0.28798   0.28547
  3859937.65 | 0.32664   0.31220   0.30293   0.29471   0.28683   0.28271   0.28143   0.28057   0.27914
  3859918.23 | 0.31374   0.30092   0.29208   0.28238   0.27630   0.27282   0.27120   0.26930   0.26791
  3859898.81 | 0.30321   0.29189   0.28349   0.27496   0.26890   0.26520   0.26324   0.26193   0.26131
  3859879.39 | 0.29400   0.28406   0.27760   0.27019   0.26343   0.25954   0.25651   0.25567   0.25567
  3859859.97 | 0.28456   0.27516   0.26829   0.26113   0.25447   0.25046   0.24795   0.24756   0.24737
  3859840.55 | 0.27496   0.26605   0.25881   0.25189   0.24605   0.24194   0.23921   0.23923   0.23953
  3859821.13 | 0.26527   0.25680   0.24857   0.24187   0.23678   0.23259   0.23036   0.23010   0.23148

```
  3859801.71 |       0.25552      0.24745      0.24083      0.23373      0.22936
 0.22641      0.22270      0.22279      0.22450
  3859782.29 |       0.24690      0.23922      0.23348      0.22543      0.22173
 0.21931      0.21549      0.21531      0.21672
  3859762.87 |       0.23930      0.23199      0.22594      0.21877      0.21394
 0.21025      0.20811      0.20536      0.20655
  3859743.45 |       0.23208      0.22512      0.21879      0.21244      0.20715
 0.20345      0.20061      0.19883      0.19920
  3859724.03 |       0.22471      0.21858      0.21253      0.20642      0.20127
 0.19702      0.19409      0.19322      0.19333
  3859704.61 |       0.21771      0.21137      0.20656      0.20068      0.19618
 0.19250      0.18949      0.18790      0.18778
  3859685.19 |       0.21106      0.20547      0.20135      0.19619      0.19182
 0.18768      0.18411      0.18187      0.18154
  3859665.77 |       0.20518      0.20029      0.19636      0.19234      0.18763
 0.18308      0.17901      0.17570      0.17471
  3859646.35 |       0.19914      0.19446      0.18981      0.18591      0.18087
 0.17684      0.17324      0.17079      0.16963
  3859626.93 |       0.19338      0.18890      0.18358      0.17981      0.17491
 0.17093      0.16822      0.16613      0.16438
  3859607.51 |       0.18788      0.18360      0.17890      0.17443      0.17009
 0.16619      0.16345      0.16128      0.15940
  3859588.09 |       0.18186      0.17775      0.17362      0.16930      0.16509
 0.16126      0.15810      0.15585      0.15428
  3859568.67 |       0.17650      0.17218      0.16858      0.16441      0.15992
 0.15617      0.15341      0.15071      0.14943
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 299
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK1   ***
                                 INCLUDING SOURCE(S):     L0000494    , L0000495
, L0000496    , L0000497    , L0000498    ,
                  L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                  L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                  L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

Y-COORD (METERS)	X-COORD (METERS)									
	489410.96	489430.26	489449.56	489468.86	489488.16	489507.46	489526.76	489546.06	489565.36	
3859957.07	0.28273	0.28000	0.27313	0.26818	0.25837	0.25159	0.24997	0.24865	0.24544	
3859937.65	0.27777	0.27657	0.27244	0.27001	0.26694	0.26403	0.26468	0.26321	0.25982	
3859918.23	0.26597	0.26256	0.26156	0.26216	0.26104	0.25934	0.25992	0.25763	0.25274	
3859898.81	0.25964	0.25759	0.25459	0.25296	0.25293	0.25393	0.25449	0.25067	0.24838	
3859879.39	0.25638	0.25625	0.24934	0.24423	0.24521	0.25019	0.24998	0.24482	0.24341	
3859859.97	0.24876	0.25021	0.24834	0.24548	0.24522	0.24707	0.24621	0.24212	0.24149	
3859840.55	0.24082	0.24299	0.24346	0.24313	0.24185	0.24107	0.23967	0.23790	0.23659	
3859821.13	0.23327	0.23419	0.23485	0.23607	0.23578	0.23333	0.23212	0.23113	0.22989	
3859801.71	0.22670	0.22821	0.22903	0.22927	0.22926	0.22779	0.22618	0.22469	0.22414	
3859782.29	0.21930	0.22187	0.22335	0.22327	0.22240	0.22182	0.22046	0.21854	0.21805	
3859762.87	0.20951	0.21256	0.21678	0.21797	0.21581	0.21274	0.21439	0.21323	0.21224	
3859743.45	0.20137	0.20481	0.20946	0.21077	0.20946	0.20625	0.20908	0.20758	0.20669	
3859724.03	0.19472	0.19746	0.20200	0.20341	0.20285	0.20053	0.20343	0.20215	0.20088	
3859704.61	0.18943	0.19148	0.19538	0.19732	0.19651	0.19500	0.19799	0.19693	0.19581	
3859685.19	0.18297	0.18531	0.18861	0.19058	0.19042	0.18965	0.19272	0.19190	0.19095	
3859665.77	0.17592	0.17810	0.18173	0.18414	0.18458	0.18448	0.18763	0.18659	0.18626	
3859646.35	0.16971	0.17171	0.17562	0.17800	0.17855	0.17906	0.18270	0.18190	0.18131	
3859626.93	0.16428	0.16565	0.16980	0.17213	0.17357	0.17505	0.17753	0.17776	0.17735	
3859607.51	0.15955	0.16114	0.16426	0.16731	0.16956	0.17151	0.17331	0.17371	0.17388	
3859588.09	0.15425	0.15566	0.15782	0.16041	0.16305	0.16544	0.16699	0.16793	0.16899	
3859568.67	0.14963	0.15006	0.15170	0.15382	0.15646	0.15927	0.16056	0.16200	0.16356	

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489584.66	489603.96	489623.26
3859957.07	0.23935	0.22775	0.21530
3859937.65	0.25377	0.24624	0.22844
3859918.23	0.24863	0.24488	0.23231
3859898.81	0.24694	0.24168	0.23574
3859879.39	0.24351	0.23906	0.23568
3859859.97	0.24077	0.23502	0.23309
3859840.55	0.23587	0.23107	0.23046
3859821.13	0.22855	0.22781	0.22648
3859801.71	0.22345	0.22211	0.22199
3859782.29	0.21797	0.21608	0.21706
3859762.87	0.21161	0.20979	0.21286
3859743.45	0.20557	0.20434	0.20776
3859724.03	0.20033	0.19965	0.20239
3859704.61	0.19532	0.19466	0.19680
3859685.19	0.19053	0.18944	0.19102
3859665.77	0.18548	0.18445	0.18553
3859646.35	0.18065	0.17970	0.18030
3859626.93	0.17683	0.17556	0.17532
3859607.51	0.17351	0.17157	0.17058
3859588.09	0.16876	0.16735	0.16604
3859568.67	0.16419	0.16329	0.16134

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 ,
L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 ,
L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 ,
L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489260.34	489284.99	489309.64	489334.29	489358.94	489383.59	489408.24	489432.89	489457.54
3859173.42	0.10414	0.10072	0.09925	0.09713	0.09427	0.09207	0.09000	0.08825	0.08701
3859151.85	0.10187	0.09981	0.09755	0.09508	0.09230	0.09014	0.08809	0.08631	0.08499
3859130.28	0.10008	0.09829	0.09570	0.09310	0.09040	0.08808	0.08625	0.08424	0.08306
3859108.71	0.09834	0.09641	0.09371	0.09099	0.08836	0.08629	0.08447	0.08227	0.08102
3859087.14	0.09646	0.09422	0.09179	0.08915	0.08659	0.08475	0.08258	0.08056	0.07907
3859065.57	0.09446	0.09229	0.08993	0.08718	0.08488	0.08290	0.08057	0.07893	0.07758
3859044.00	0.09235	0.09024	0.08795	0.08545	0.08303	0.08110	0.07882	0.07735	0.07615
3859022.43	0.09048	0.08844	0.08621	0.08379	0.08143	0.07955	0.07765	0.07601	0.07459
3859000.86	0.08834	0.08652	0.08453	0.08217	0.07988	0.07787	0.07601	0.07455	0.07310
3858979.29	0.08643	0.08467	0.08290	0.08060	0.07837				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 ,
L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 ,
L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 ,
L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489482.19	489506.84	489531.49	489556.14	489580.79

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489605.44    489630.09    489654.74    489679.39
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489704.04	489728.69	489753.34
3859173.42	0.09888	0.09854	0.09774
3859151.85	0.09655	0.09630	0.09556
3859130.28	0.09428	0.09412	0.09346
3859108.71	0.09226	0.09179	0.09121
3859087.14	0.09010	0.08992	0.08962
3859065.57	0.08817	0.08809	0.08787
3859044.00	0.08611	0.08612	0.08597
3859022.43	0.08410	0.08420	0.08412
3859000.86	0.08195	0.08214	0.08232
3858979.29	0.08003	0.08030	0.08056
3858957.72	0.07849	0.07885	0.07867
3858936.15	0.07666	0.07709	0.07699
3858914.58	0.07486	0.07537	0.07534
3858893.01	0.07326	0.07368	0.07390
3858871.44	0.07169	0.07203	0.07232
3858849.87	0.07001	0.07057	0.07093
3858828.30	0.06851	0.06914	0.06941
3858806.73	0.06704	0.06773	0.06822
3858785.16	0.06532	0.06621	0.06690
3858763.59	0.06377	0.06472	0.06547
3858742.02	0.06267	0.06326	0.06406

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***

INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	488584.66	488614.48	488644.30	488674.12	488703.94	488733.76	488763.58	488793.40	488823.22
3858904.98	0.08722	0.08822	0.08890	0.08970	0.09030	0.09097	0.09149	0.09377	0.09596
3858880.05	0.08561	0.08646	0.08721	0.08808	0.08822	0.08858	0.09004	0.09190	0.09471
3858855.12	0.08394	0.08500	0.08544	0.08598	0.08648	0.08671	0.08924	0.09056	0.09292
3858830.19	0.08245	0.08345	0.08348	0.08331	0.08506	0.08603	0.08745	0.08926	0.09147
3858805.26	0.08021	0.08024	0.08203	0.08258	0.08368	0.08442	0.08574	0.08759	0.08994
3858780.33	0.07937	0.08024	0.08073	0.08112	0.08170	0.08272	0.08410	0.08598	0.08833
3858755.40	0.07821	0.07902	0.07934	0.07970	0.08030	0.08109	0.08265	0.08458	0.08677
3858730.47	0.07687	0.07750	0.07787	0.07844	0.07906	0.07992	0.08140	0.08335	0.08538
3858705.54	0.07555	0.07622	0.07644	0.07699	0.07775	0.07878	0.08019	0.08203	0.08416
3858680.61	0.07416	0.07486	0.07471	0.07523	0.07599	0.07732	0.07903	0.08088	0.08295
3858655.68	0.07279	0.07352	0.07378	0.07409	0.07478	0.07592	0.07767	0.07954	0.08167

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  3858630.75 |       0.07136      0.07202      0.07234      0.07276      0.07349
 0.07469      0.07647      0.07835      0.08042
  3858605.82 |       0.06995      0.07055      0.07093      0.07148      0.07226
 0.07350      0.07533      0.07709      0.07909
  3858580.89 |       0.06866      0.06920      0.06957      0.07024      0.07095
 0.07225      0.07411      0.07598      0.07771
  3858555.96 |       0.06776      0.06808      0.06834      0.06893      0.06981
 0.07105      0.07272      0.07469      0.07654
  3858531.03 |       0.06633      0.06670      0.06715      0.06778      0.06871
 0.07012      0.07160      0.07374      0.07549
  3858506.10 |       0.06519      0.06553      0.06580      0.06646      0.06744
 0.06890      0.07071      0.07261      0.07428
  3858481.17 |       0.06399      0.06431      0.06449      0.06528      0.06633
 0.06783      0.06966      0.07152      0.07310
  3858456.24 |       0.06281      0.06302      0.06341      0.06426      0.06536
 0.06680      0.06864      0.07045      0.07193
  3858431.31 |       0.06165      0.06186      0.06237      0.06327      0.06443
 0.06601      0.06774      0.06932      0.07079
  3858406.38 |       0.06070      0.06082      0.06156      0.06242      0.06353
 0.06505      0.06687      0.06839      0.06966
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 305
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK1   ***
                                   INCLUDING SOURCE(S):     L0000494    , L0000495
, L0000496    , L0000497    , L0000498    ,
                   L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                   L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                   L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                    *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     488853.04    488882.86    488912.68    488942.50    488972.32
489002.14    489031.96    489061.78    489091.60
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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 3858904.98 | 0.09825   0.10095   0.10212   0.10222   0.09995
0.09671   0.09313   0.08986   0.08745
 3858880.05 | 0.09680   0.09894   0.09992   0.09983   0.09771
0.09431   0.09080   0.08766   0.08538
 3858855.12 | 0.09524   0.09711   0.09779   0.09751   0.09527
0.09184   0.08872   0.08571   0.08340
 3858830.19 | 0.09372   0.09532   0.09570   0.09512   0.09249
0.08975   0.08655   0.08367   0.08117
 3858805.26 | 0.09211   0.09369   0.09402   0.09291   0.08964
0.08744   0.08431   0.08139   0.07965
 3858780.33 | 0.09019   0.09152   0.09168   0.09064   0.08796
0.08492   0.08200   0.07936   0.07772
 3858755.40 | 0.08867   0.08975   0.08985   0.08867   0.08619
0.08291   0.07993   0.07740   0.07573
 3858730.47 | 0.08742   0.08834   0.08828   0.08686   0.08434
0.08110   0.07822   0.07551   0.07395
 3858705.54 | 0.08607   0.08695   0.08662   0.08498   0.08241
0.07948   0.07656   0.07412   0.07265
 3858680.61 | 0.08444   0.08507   0.08479   0.08315   0.08054
0.07752   0.07483   0.07278   0.07153
 3858655.68 | 0.08315   0.08363   0.08311   0.08137   0.07897
0.07589   0.07316   0.07094   0.06992
 3858630.75 | 0.08178   0.08212   0.08156   0.07962   0.07721
0.07418   0.07154   0.06943   0.06836
 3858605.82 | 0.08035   0.08064   0.08004   0.07803   0.07550
0.07252   0.06998   0.06811   0.06686
 3858580.89 | 0.07894   0.07927   0.07855   0.07648   0.07372
0.07092   0.06848   0.06670   0.06553
 3858555.96 | 0.07774   0.07784   0.07690   0.07487   0.07211
0.06925   0.06690   0.06521   0.06425
 3858531.03 | 0.07656   0.07643   0.07528   0.07319   0.07055
0.06788   0.06549   0.06390   0.06301
 3858506.10 | 0.07522   0.07496   0.07370   0.07145   0.06881
0.06631   0.06414   0.06252   0.06180
 3858481.17 | 0.07373   0.07343   0.07216   0.06986   0.06734
0.06479   0.06271   0.06129   0.06053
 3858456.24 | 0.07236   0.07193   0.07064   0.06841   0.06592
0.06344   0.06133   0.06011   0.05940
 3858431.31 | 0.07134   0.07079   0.06916   0.06699   0.06443
0.06202   0.06011   0.05885   0.05821
 3858406.38 | 0.07016   0.06942   0.06771   0.06552   0.06309
0.06075   0.05892   0.05764   0.05705

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***

INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489121.42	489151.24	489181.06
3858904.98	0.08600	0.08538	0.08446
3858880.05	0.08404	0.08317	0.08261
3858855.12	0.08200	0.08120	0.08068
3858830.19	0.07988	0.07959	0.07882
3858805.26	0.07843	0.07761	0.07703
3858780.33	0.07675	0.07612	0.07543
3858755.40	0.07498	0.07441	0.07402
3858730.47	0.07328	0.07276	0.07239
3858705.54	0.07164	0.07116	0.07082
3858680.61	0.07044	0.07012	0.06943
3858655.68	0.06928	0.06886	0.06820
3858630.75	0.06803	0.06776	0.06712
3858605.82	0.06658	0.06634	0.06584
3858580.89	0.06506	0.06475	0.06450
3858555.96	0.06371	0.06353	0.06341
3858531.03	0.06251	0.06236	0.06214
3858506.10	0.06146	0.06122	0.06101
3858481.17	0.06023	0.06011	0.05992
3858456.24	0.05903	0.05904	0.05876
3858431.31	0.05798	0.05780	0.05763
3858406.38	0.05676	0.05679	0.05663

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489386.10	489460.62	489535.14	489609.66	489684.18	489758.70	489833.22	489907.74	489982.26
3861675.76	0.74847	0.76937	0.76481	0.77285	0.78359	0.79602	0.80429	0.80427	0.79830
3861650.62	0.79895	0.81562	0.81963	0.83001	0.84082	0.85021	0.85570	0.85520	0.84382
3861625.48	0.85362	0.86386	0.87432	0.88814	0.90146	0.91210	0.91259	0.91288	0.90010
3861600.34	0.91176	0.92934	0.93483	0.95318	0.97415	0.98558	0.97848	0.97198	0.96885
3861575.20	0.99496	0.99254	1.00076	1.02616	1.04793	1.05079	1.04497	1.03635	1.04080
3861550.06	1.07057	1.06717	1.08333	1.10589	1.11735	1.11883	1.11639	1.11426	1.11800
3861524.92	1.15170	1.15589	1.17476	1.19303	1.19961	1.20047	1.20010	1.20128	1.20103
3861499.78	1.24426	1.25540	1.27642	1.29549	1.30140	1.29513	1.29897	1.30141	1.30334
3861474.64	1.35122	1.36947	1.39319	1.41330	1.42082	1.40798	1.41445	1.41473	1.42159
3861449.50	1.47222	1.50316	1.52785	1.54331	1.54316	1.54649	1.54869	1.54228	1.53138
3861424.36	1.62080	1.66335	1.68177	1.69308	1.70233	1.70215	1.70372	1.69853	1.65969
3861399.22	1.80034	1.84853	1.85959	1.87885	1.89292	1.88725	1.88174	1.85132	1.80269
3861374.08	2.01705	2.06681	2.07853	2.10589	2.11613				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 ,
L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 ,
L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 ,
L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	490056.78	490131.30	490205.82	490280.34	490354.86	490429.38	490503.90	490578.42	490652.94
3861675.76	0.79438	0.79096	0.78272	0.77799	0.77623	0.77156	0.76601	0.75834	0.75462

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 3861650.62 |       0.84090      0.83894      0.83468      0.83371      0.82143
0.81494      0.80705      0.80384      0.80133
 3861625.48 |       0.89739      0.89768      0.89561      0.89567      0.87727
0.86900      0.85760      0.85504      0.84909
 3861600.34 |       0.96655      0.96595      0.96307      0.95781      0.94702
0.93556      0.92085      0.90658      0.89227
 3861575.20 |       1.03378      1.02950      1.02890      1.01803      1.00222
0.98800      0.97227      0.95760      0.93851
 3861550.06 |       1.10916      1.10962      1.09962      1.08746      1.06401
1.05149      1.02717      1.00906      0.98801
 3861524.92 |       1.19767      1.19006      1.17331      1.15975      1.13730
1.11205      1.08642      1.06429      1.04089
 3861499.78 |       1.29240      1.27434      1.25936      1.24111      1.21326
1.17814      1.14891      1.12280      1.09661
 3861474.64 |       1.39061      1.36972      1.35745      1.32931      1.28748
1.25327      1.21684      1.18456      1.15375
 3861449.50 |       1.49916      1.48717      1.45758      1.41345      1.36511
1.32816      1.29039      1.25167      1.21403
 3861424.36 |       1.62061      1.59052      1.56006      1.50625      1.45121
1.40925      1.36233      1.32037      1.27584
 3861399.22 |       1.75262      1.71018      1.66429      1.60344      1.54374
1.49303      1.43917      1.39011      1.33879
 3861374.08 |       1.90020      1.84365      1.78310      1.70848      1.64157
1.58171      1.52088      1.46373      1.40491
 3861348.94 |       2.06152      1.98530      1.91355      1.82299      1.74543
1.67394      1.60534      1.53839      1.47245
 3861323.80 |       2.23499      2.13708      2.04042      1.94601      1.85746
1.77263      1.69209      1.61456      1.54115
 3861298.66 |       2.42161      2.30802      2.18131      2.07457      1.96980
1.87532      1.78286      1.69882      1.60987
 3861273.52 |       2.61641      2.47177      2.33480      2.20791      2.08662
1.98275      1.87411      1.77645      1.68213
 3861248.38 |       2.82598      2.64735      2.49250      2.34359      2.20747
2.08723      1.96767      1.86573      1.75409
 3861223.24 |       3.04758      2.83748      2.65677      2.49198      2.33327
2.19538      2.06549      1.95336      1.82743
 3861198.10 |       3.27759      3.03565      2.82857      2.64729      2.46048
2.30926      2.16478      2.03394      1.90193
 3861172.96 |       3.52180      3.23357      3.00295      2.78854      2.58825
2.41591      2.25971      2.11332      1.97528
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 309
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK1   ***
```

Y-COORD (METERS)	X-COORD (METERS)		
	490727.46	490801.98	490876.50
3861675.76	0.75622	0.74368	0.73599
3861650.62	0.79799	0.78444	0.77465
3861625.48	0.83591	0.82289	0.80938
3861600.34	0.87680	0.86288	0.84523
3861575.20	0.92143	0.90439	0.88351
3861550.06	0.96790	0.94785	0.92335
3861524.92	1.01836	0.99267	0.96521
3861499.78	1.06948	1.04144	1.00906
3861474.64	1.12148	1.09142	1.05482
3861449.50	1.17724	1.13828	1.10128
3861424.36	1.23207	1.18988	1.14528
3861399.22	1.29175	1.24131	1.19369
3861374.08	1.35134	1.29500	1.24230
3861348.94	1.40968	1.35024	1.29225
3861323.80	1.47032	1.40476	1.34347
3861298.66	1.53900	1.46647	1.39451
3861273.52	1.60031	1.52363	1.44520
3861248.38	1.66277	1.58183	1.49750
3861223.24	1.72804	1.64018	1.54984
3861198.10	1.79247	1.69623	1.59983
3861172.96	1.85572	1.75026	1.65009

VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495
, L0000496 , L0000497 , L0000498 ,
L0000499 , L0000500 , L0000501 , L0000502 , L0000503
, L0000504 , L0000505 , L0000506 ,
L0000507 , L0000508 , L0000509 , L0000510 , L0000511
, L0000512 , L0000513 , L0000514 ,
L0000515 , L0000516 , L0000517 , L0000518 , L0000519
, L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)					
	491611.20	491641.99	491672.78	491703.57	491734.36	491765.15	491795.94	491826.73	491857.52
3861693.54	0.59247	0.58731	0.58263	0.57593	0.56998	0.56410	0.55896	0.55409	0.54925
3861664.09	0.61342	0.60757	0.60104	0.59531	0.58940	0.58355	0.57777	0.57182	0.56572
3861634.64	0.63554	0.62893	0.62215	0.61595	0.60957	0.60254	0.59727	0.59064	0.58387
3861605.19	0.65772	0.65111	0.64379	0.63682	0.63045	0.62315	0.61669	0.60982	0.60305
3861575.74	0.68096	0.67351	0.66561	0.65836	0.65068	0.64336	0.63640	0.62903	0.62177
3861546.29	0.70435	0.69657	0.68778	0.67968	0.67197	0.66409	0.65685	0.64895	0.64165
3861516.84	0.72837	0.71966	0.71079	0.70178	0.69319	0.68447	0.67615	0.66823	0.66016
3861487.39	0.75233	0.74295	0.73371	0.72405	0.71454	0.70521	0.69630	0.68755	0.67894
3861457.94	0.77645	0.76605	0.75584	0.74580	0.73594	0.72597	0.71647	0.70740	0.69822
3861428.49	0.80129	0.78950	0.77888	0.76815	0.75763	0.74729	0.73715	0.72720	0.71715
3861399.04	0.82582	0.81324	0.80190	0.79014	0.77923	0.76824	0.75716	0.74630	0.73595
3861369.59	0.84958	0.83655	0.82447	0.81198	0.80007	0.78872	0.77699	0.76580	0.75484
3861340.14	0.87315	0.85968	0.84650	0.83361	0.82099	0.80865	0.79658	0.78536	0.77318
3861310.69	0.89681	0.88217	0.86823	0.85460	0.84129	0.82859	0.81586	0.80371	0.79121

 3861693.54 | 0.54362   0.53633   0.53149   0.52648   0.52152
0.51662   0.51095   0.50596   0.50123
 3861664.09 | 0.56037   0.55441   0.54896   0.54421   0.53908
0.53380   0.52612   0.52079   0.51593
 3861634.64 | 0.57765   0.57196   0.56655   0.56098   0.55567

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 0.55022      0.54402      0.53664      0.53060
  3861605.19 |       0.59660      0.59023      0.58417      0.57796      0.57183
 0.56620      0.55981      0.55370      0.54685
  3861575.74 |       0.61533      0.60826      0.60152      0.59533      0.58854
 0.58293      0.57736      0.56940      0.56360
  3861546.29 |       0.63422      0.62690      0.61968      0.61257      0.60645
 0.59931      0.59162      0.58470      0.57831
  3861516.84 |       0.65297      0.64514      0.63719      0.62937      0.62305
 0.61568      0.60710      0.60019      0.59296
  3861487.39 |       0.67099      0.66290      0.65494      0.64662      0.63892
 0.63202      0.62296      0.61517      0.60774
  3861457.94 |       0.68920      0.68059      0.67188      0.66381      0.65538
 0.64827      0.63848      0.63049      0.62263
  3861428.49 |       0.70730      0.69816      0.68919      0.68037      0.67145
 0.66390      0.65434      0.64565      0.63712
  3861399.04 |       0.72579      0.71610      0.70660      0.69700      0.68758
 0.67934      0.66952      0.66038      0.65164
  3861369.59 |       0.74438      0.73328      0.72379      0.71340      0.70348
 0.69452      0.68396      0.67462      0.66593
  3861340.14 |       0.76273      0.75047      0.74018      0.72953      0.71910
 0.70967      0.69913      0.68932      0.67970
  3861310.69 |       0.77989      0.76763      0.75622      0.74533      0.73467
 0.72475      0.71373      0.70371      0.69339
  3861281.24 |       0.79666      0.78442      0.77246      0.76076      0.75015
 0.73867      0.72744      0.71698      0.70648
  3861251.79 |       0.81298      0.80049      0.78828      0.77634      0.76495
 0.75270      0.74127      0.72984      0.71892
  3861222.34 |       0.82942      0.81668      0.80393      0.79117      0.77872
 0.76628      0.75467      0.74307      0.73146
  3861192.89 |       0.84628      0.83235      0.81906      0.80580      0.79286
 0.77937      0.76762      0.75585      0.74409
  3861163.44 |       0.86191      0.84745      0.83334      0.81959      0.80647
 0.79253      0.78007      0.76817      0.75575
  3861133.99 |       0.87528      0.86098      0.84640      0.83189      0.81806
 0.80458      0.79172      0.77917      0.76639
  3861104.54 |       0.88858      0.87316      0.85816      0.84355      0.82963
 0.81605      0.80282      0.78964      0.77679
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 312
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK1   ***
                                   INCLUDING SOURCE(S):     L0000494    , L0000495
, L0000496    , L0000497    , L0000498    ,
                L0000499    , L0000500    , L0000501    , L0000502    , L0000503
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, L0000504   , L0000505   , L0000506   ,
                L0000507   , L0000508   , L0000509   , L0000510   , L0000511
, L0000512   , L0000513   , L0000514   ,
                L0000515   , L0000516   , L0000517   , L0000518   , L0000519
, L0000520   , L0000521   , . . .   ,

                                *** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 492165.42   492196.21   492227.00
 -
- -

  3861693.54 | 0.49655   0.49172   0.48733
  3861664.09 | 0.51093   0.50598   0.50128
  3861634.64 | 0.52442   0.52037   0.51495
  3861605.19 | 0.53966   0.53445   0.52868
  3861575.74 | 0.55561   0.54876   0.54284
  3861546.29 | 0.57138   0.56476   0.55782
  3861516.84 | 0.58648   0.57925   0.57256
  3861487.39 | 0.60065   0.59345   0.58637
  3861457.94 | 0.61490   0.60730   0.60004
  3861428.49 | 0.62920   0.62119   0.61333
  3861399.04 | 0.64330   0.63488   0.62684
  3861369.59 | 0.65693   0.64833   0.63989
  3861340.14 | 0.67027   0.66126   0.65266
  3861310.69 | 0.68353   0.67364   0.66466
  3861281.24 | 0.69595   0.68590   0.67630
  3861251.79 | 0.70824   0.69754   0.68733
  3861222.34 | 0.72038   0.70929   0.69820
  3861192.89 | 0.73235   0.72063   0.70918
  3861163.44 | 0.74363   0.73154   0.72000
  3861133.99 | 0.75419   0.74254   0.73092
  3861104.54 | 0.76426   0.75257   0.74064

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK1   ***
                                INCLUDING SOURCE(S):   L0000494   , L0000495
, L0000496   , L0000497   , L0000498   ,

```
                L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         488802.97    3861310.09        1.70931                       488863.58
3861309.29        1.88237
         488847.63    3861279.78        1.99582                       488850.82
3861262.24        2.10814
         488810.14    3861261.44        1.95583                       488810.94
3861289.36        1.82457
         488819.72    3861306.90        1.76348                       488816.53
3861235.92        2.10123
         488841.25    3861126.66        2.85576                       488879.53
3861121.88        3.26407
         488913.82    3861121.08        3.68219                       488925.79
3861092.37        4.12362
         488920.03    3861067.49        4.17401                       488996.74
3861113.92        5.25222
         488974.03    3861097.77        4.98265                       488931.63
3860976.64        5.01223
         488935.67    3861034.68        4.63538                       488959.90
3861061.43        4.89397
         489165.81    3861208.80        6.35791                       489317.74
3861109.28       31.85147
         489385.87    3861014.75       25.54233                       489372.24
3861112.69       21.73559
         489420.79    3861106.73       17.53742                       489436.12
3861037.74       19.98904
         489488.07    3861036.89       16.62385                       489473.59
3861110.99       13.79004
         489431.01    3861167.20       10.51311                       489662.66
3860915.95       11.27717
         489644.78    3861076.07        9.35008                       489659.26
3861099.06        8.34641
         489735.91    3861020.71        8.60211                       489700.14
3861029.23        9.18695
         489708.65    3861062.44        8.36174                       489779.34
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3861099.06        6.51076
         489835.95    3859138.59        0.09105                    489885.95
3859138.59        0.08904
         489935.95    3859138.59        0.08829                    489985.95
3859138.59        0.08598
         490035.95    3859138.59        0.08370                    490085.95
3859138.59        0.08286
         490135.95    3859138.59        0.08404                    490185.95
3859138.59        0.08457
         490235.95    3859138.59        0.08438                    490285.95
3859138.59        0.08209
         490335.95    3859138.59        0.07889                    490385.95
3859138.59        0.07481
         490435.95    3859138.59        0.07516                    490485.95
3859138.59        0.07315
         490535.95    3859138.59        0.06915                    490585.95
3859138.59        0.06682
         490635.95    3859138.59        0.06337                    490685.95
3859138.59        0.06067
         490735.95    3859138.59        0.05926                    490785.95
3859138.59        0.05758
         490835.95    3859138.59        0.05541                    490885.95
3859138.59        0.05356
         489835.95    3859188.59        0.09588                    489885.95
3859188.59        0.09382
         489935.95    3859188.59        0.09325                    489985.95
3859188.59        0.09053
         490035.95    3859188.59        0.08976                    490085.95
3859188.59        0.09114
         490135.95    3859188.59        0.09075                    490185.95
3859188.59        0.09017
         490235.95    3859188.59        0.08833                    490285.95
3859188.59        0.08697
         490335.95    3859188.59        0.08607                    490385.95
3859188.59        0.08413
         490435.95    3859188.59        0.08146                    490485.95
3859188.59        0.07654
         490535.95    3859188.59        0.07365                    490585.95
3859188.59        0.07162
         490635.95    3859188.59        0.06702                    490685.95
3859188.59        0.06199
         490735.95    3859188.59        0.05888                    490785.95
3859188.59        0.05722
         490835.95    3859188.59        0.05816                    490885.95
3859188.59        0.05652
         489835.95    3859238.59        0.10041                    489885.95
3859238.59        0.09948
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***

INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
489935.95	3859238.59	0.09807	489985.95	3859238.59	0.09407
490035.95	3859238.59	0.09461	490085.95	3859238.59	0.09726
490135.95	3859238.59	0.09853	490185.95	3859238.59	0.09912
490235.95	3859238.59	0.09658	490285.95	3859238.59	0.09412
490335.95	3859238.59	0.09226	490385.95	3859238.59	0.09147
490435.95	3859238.59	0.08961	490485.95	3859238.59	0.08733
490535.95	3859238.59	0.08225	490585.95	3859238.59	0.07708
490635.95	3859238.59	0.07269	490685.95	3859238.59	0.07145
490735.95	3859238.59	0.06755	490785.95	3859238.59	0.06666
490835.95	3859238.59	0.06539	490885.95	3859238.59	0.06295
489835.95	3859288.59	0.10643	489885.95	3859288.59	0.10514
489935.95	3859288.59	0.10319	489985.95	3859288.59	0.09902

490035.95 3859288.59 0.10124 490085.95 3859288.59 0.10347
490135.95 3859288.59 0.10581 490185.95 3859288.59 0.10662
490235.95 3859288.59 0.10513 490285.95 3859288.59 0.10481
490335.95 3859288.59 0.10223 490385.95 3859288.59 0.09950
490435.95 3859288.59 0.09471 490485.95 3859288.59 0.09479
490535.95 3859288.59 0.09559 490585.95 3859288.59 0.08875
490635.95 3859288.59 0.08681 490685.95 3859288.59 0.08369
490735.95 3859288.59 0.07807 490785.95 3859288.59 0.07607
490835.95 3859288.59 0.07429 490885.95 3859288.59 0.07225
489835.95 3859338.59 0.11364 489885.95 3859338.59 0.11290
489935.95 3859338.59 0.10906 489985.95 3859338.59 0.10865
490035.95 3859338.59 0.11059 490085.95 3859338.59 0.11391
490135.95 3859338.59 0.11551 490185.95 3859338.59 0.11642
490235.95 3859338.59 0.11688 490285.95 3859338.59 0.11648
490335.95 3859338.59 0.11406 490385.95 3859338.59 0.11234
490435.95 3859338.59 0.11058 490485.95 3859338.59 0.10738
490535.95 3859338.59 0.10507 490585.95 3859338.59 0.10196
490635.95 3859338.59 0.09968 490685.95 3859338.59 0.09459
490735.95 3859338.59 0.08942 490785.95 3859338.59 0.08636
490835.95 3859338.59 0.08673 490885.95 3859338.59 0.08439
489835.95 3859388.59 0.11974 489885.95 3859388.59 0.11871
489935.95 3859388.59 0.11945 489985.95 3859388.59 0.11898
490035.95 3859388.59 0.12195 490085.95 3859388.59 0.12555
490135.95 3859388.59 0.12745 490185.95 3859388.59 0.12839
490235.95 3859388.59 0.12904 490285.95 3859388.59 0.13019

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 ,
L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 ,
L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 ,
L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490635.95	3859388.59	0.11307	490685.95	3859388.59	0.10464
490735.95	3859388.59	0.09630	490785.95	3859388.59	0.09684
490835.95	3859388.59	0.10089	490885.95	3859388.59	0.10108
489835.95	3859438.59	0.13086	489885.95	3859438.59	0.12908
489935.95	3859438.59	0.12926	489985.95	3859438.59	0.13152
490035.95	3859438.59	0.13480	490085.95	3859438.59	0.13700
490135.95	3859438.59	0.13989	490185.95	3859438.59	0.14186
490235.95	3859438.59	0.14321	490285.95		

3859438.59 0.14395
490335.95 3859438.59 0.14366 490385.95 3859438.59 0.14246
490435.95 3859438.59 0.14048 490485.95 3859438.59 0.13729
490535.95 3859438.59 0.13452 490585.95 3859438.59 0.13139
490635.95 3859438.59 0.12698 490685.95 3859438.59 0.12243
490735.95 3859438.59 0.11989 490785.95 3859438.59 0.11589
490835.95 3859438.59 0.11705 490885.95 3859438.59 0.11895
490085.95 3859488.59 0.15131 490135.95 3859488.59 0.15399
490185.95 3859488.59 0.15724 490235.95 3859488.59 0.15911
490285.95 3859488.59 0.15884 490335.95 3859488.59 0.15963
490385.95 3859488.59 0.15744 490435.95 3859488.59 0.15563
490485.95 3859488.59 0.15269 490535.95 3859488.59 0.15004
490585.95 3859488.59 0.14612 490635.95 3859488.59 0.14319
490685.95 3859488.59 0.14097 490735.95 3859488.59 0.13780
490785.95 3859488.59 0.13634 490835.95 3859488.59 0.13757
490885.95 3859488.59 0.13837 490085.95 3859538.59 0.16661
490135.95 3859538.59 0.17012 490185.95 3859538.59 0.17339
490235.95 3859538.59 0.17664 490285.95 3859538.59 0.17755
490335.95 3859538.59 0.17600 490385.95 3859538.59 0.17419
490435.95 3859538.59 0.17190 490485.95 3859538.59 0.16947
490535.95 3859538.59 0.16724 490585.95 3859538.59 0.16441
490635.95 3859538.59 0.16246 490685.95 3859538.59 0.16116
490735.95 3859538.59 0.15894 490785.95 3859538.59 0.15884
490835.95 3859538.59 0.16006 490885.95 3859538.59 0.15791
490135.95 3859588.59 0.18892 490185.95 3859588.59 0.19031
490235.95 3859588.59 0.19358 490285.95

3859588.59   0.19519
         490335.95   3859588.59   0.19351   490385.95
3859588.59   0.19322
         490435.95   3859588.59   0.19150   490485.95
3859588.59   0.18953
         490535.95   3859588.59   0.18750   490585.95
3859588.59   0.18631
         490635.95   3859588.59   0.18417   490685.95
3859588.59   0.18419
         490735.95   3859588.59   0.18319   490785.95
3859588.59   0.18287
         490835.95   3859588.59   0.18446   490885.95
3859588.59   0.18452
         490135.95   3859638.59   0.20019   490185.95
3859638.59   0.21122

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1   ***
                                 INCLUDING SOURCE(S):   L0000494   , L0000495 , L0000496   , L0000497   , L0000498   ,
                 L0000499   , L0000500   , L0000501   , L0000502   , L0000503 , L0000504   , L0000505   , L0000506   ,
                 L0000507   , L0000508   , L0000509   , L0000510   , L0000511 , L0000512   , L0000513   , L0000514   ,
                 L0000515   , L0000516   , L0000517   , L0000518   , L0000519 , L0000520   , L0000521   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                 ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

490535.95 3859638.59 0.21144 490585.95 3859638.59 0.21176
490635.95 3859638.59 0.21062 490685.95 3859638.59 0.21058
490735.95 3859638.59 0.21040 490785.95 3859638.59 0.21139
490835.95 3859638.59 0.21385 490885.95 3859638.59 0.21649
490135.95 3859688.59 0.22713 490185.95 3859688.59 0.23017
490235.95 3859688.59 0.23220 490285.95 3859688.59 0.22965
490335.95 3859688.59 0.23314 490385.95 3859688.59 0.23794
490435.95 3859688.59 0.23657 490485.95 3859688.59 0.23762
490535.95 3859688.59 0.23788 490585.95 3859688.59 0.24065
490635.95 3859688.59 0.24110 490685.95 3859688.59 0.24123
490735.95 3859688.59 0.24176 490785.95 3859688.59 0.24333
490835.95 3859688.59 0.24664 490885.95 3859688.59 0.25434
490085.95 3859738.59 0.24353 490135.95 3859738.59 0.24875
490185.95 3859738.59 0.25345 490235.95 3859738.59 0.25727
490285.95 3859738.59 0.25733 490335.95 3859738.59 0.26240
490385.95 3859738.59 0.26034 490435.95 3859738.59 0.26538
490485.95 3859738.59 0.26693 490535.95 3859738.59 0.27248
490585.95 3859738.59 0.27423 490635.95 3859738.59 0.27615
490685.95 3859738.59 0.27839 490735.95 3859738.59 0.28156
490785.95 3859738.59 0.28600 490835.95 3859738.59 0.28988
490885.95 3859738.59 0.29496 490085.95 3859788.59 0.26756
490135.95 3859788.59 0.27380 490185.95 3859788.59 0.27877
490235.95 3859788.59 0.28372 490285.95 3859788.59 0.29026
490335.95 3859788.59 0.29675 490385.95 3859788.59 0.30266
490435.95 3859788.59 0.30410 490485.95 3859788.59 0.30880

```
         490535.95    3859788.59        0.30999                      490585.95
3859788.59        0.31798
         490635.95    3859788.59        0.31784                      490685.95
3859788.59        0.32126
         490735.95    3859788.59        0.32941                      490785.95
3859788.59        0.33456
         490835.95    3859788.59        0.33757                      490885.95
3859788.59        0.33498
         490085.95    3859838.59        0.29760                      490135.95
3859838.59        0.30427
         490185.95    3859838.59        0.31045                      490235.95
3859838.59        0.31633
         490285.95    3859838.59        0.32457                      490335.95
3859838.59        0.33497
         490385.95    3859838.59        0.34246                      490435.95
3859838.59        0.34875
         490485.95    3859838.59        0.35454                      490535.95
3859838.59        0.35918
         490585.95    3859838.59        0.36506                      490635.95
3859838.59        0.37121
         490685.95    3859838.59        0.37996                      490735.95
3859838.59        0.38233
         490785.95    3859838.59        0.38248                      490835.95
3859838.59        0.38792
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 317
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK1   ***
                                   INCLUDING SOURCE(S):     L0000494    , L0000495
, L0000496    , L0000497    , L0000498    ,
                  L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                  L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                  L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
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Y-COORD (M) CONC

- - - -

3859988.59   0.59125
         490835.95   3859988.59   0.59749   490885.95
3859988.59   0.60627
         490135.95   3860038.59   0.53595   490185.95
3860038.59   0.55525
         490235.95   3860038.59   0.57156   490285.95
3860038.59   0.58821
         490335.95   3860038.59   0.60251   490385.95
3860038.59   0.62024
         490435.95   3860038.59   0.63471   490485.95
3860038.59   0.64693
         490535.95   3860038.59   0.65652   490585.95
3860038.59   0.66526
         490635.95   3860038.59   0.67376   490685.95
3860038.59   0.67761
         490735.95   3860038.59   0.67461   490785.95
3860038.59   0.67870
         490835.95   3860038.59   0.68222   490885.95
3860038.59   0.68663
         490135.95   3860088.59   0.64075   490185.95
3860088.59   0.65604
         490235.95   3860088.59   0.67798   490285.95
3860088.59   0.69562
         490335.95   3860088.59   0.71481   490385.95
3860088.59   0.73000
         490435.95   3860088.59   0.74338   490485.95
3860088.59   0.75538
         490535.95   3860088.59   0.76389   490585.95
3860088.59   0.77038
         490635.95   3860088.59   0.77635   490685.95
3860088.59   0.77902
         490735.95   3860088.59   0.77911   490785.95
3860088.59   0.77704

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1   ***
                                  INCLUDING SOURCE(S):   L0000494   , L0000495 , L0000496   , L0000497   , L0000498   ,
                                     L0000499   , L0000500   , L0000501   , L0000502   , L0000503 , L0000504   , L0000505   , L0000506   ,
                                     L0000507   , L0000508   , L0000509   , L0000510   , L0000511 , L0000512   , L0000513   , L0000514   ,
                                     L0000515   , L0000516   , L0000517   , L0000518   , L0000519

, L0000520   , L0000521   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490835.95	3860088.59	0.77694	490885.95	3860088.59	0.77658
490135.95	3860138.59	0.77742	490185.95	3860138.59	0.79449
490235.95	3860138.59	0.81497	490285.95	3860138.59	0.83274
490335.95	3860138.59	0.84752	490385.95	3860138.59	0.86143
490435.95	3860138.59	0.87328	490485.95	3860138.59	0.88185
490535.95	3860138.59	0.88710	490585.95	3860138.59	0.89076
490635.95	3860138.59	0.89248	490685.95	3860138.59	0.89252
490735.95	3860138.59	0.88993	490785.95	3860138.59	0.88434
490835.95	3860138.59	0.87965	490885.95	3860138.59	0.87571
490935.95	3860138.59	0.87022	490985.95	3860138.59	0.86273
491035.95	3860138.59	0.85425	490135.95	3860188.59	0.94733
490185.95	3860188.59	0.96300	490235.95	3860188.59	0.98266
490285.95	3860188.59	0.99736	490335.95	3860188.59	1.00929
490385.95	3860188.59	1.01819	490435.95	3860188.59	1.02457
490485.95	3860188.59	1.02846	490535.95	3860188.59	1.02877
490585.95	3860188.59	1.02600	490635.95	3860188.59	1.02304
490685.95	3860188.59	1.01668	490735.95	3860188.59	1.00997
490785.95	3860188.59	1.00060	490835.95	3860188.59	0.99032
490885.95	3860188.59	0.98052	490935.95	3860188.59	0.96896

```
         490985.95    3860188.59        0.95659                      491035.95
3860188.59        0.94358
         491085.95    3860188.59        0.92985                      491135.95
3860188.59        0.91634
         490135.95    3860238.59        1.16550                      490185.95
3860238.59        1.17574
         490235.95    3860238.59        1.18567                      490285.95
3860238.59        1.19351
         490335.95    3860238.59        1.19859                      490385.95
3860238.59        1.20024
         490435.95    3860238.59        1.19846                      490485.95
3860238.59        1.19503
         490535.95    3860238.59        1.18769                      490585.95
3860238.59        1.17813
         490635.95    3860238.59        1.16637                      490685.95
3860238.59        1.15326
         490735.95    3860238.59        1.13920                      490785.95
3860238.59        1.12393
         490835.95    3860238.59        1.10786                      490885.95
3860238.59        1.09089
         490935.95    3860238.59        1.07339                      490985.95
3860238.59        1.05577
         491035.95    3860238.59        1.03774                      491085.95
3860238.59        1.01889
         491135.95    3860238.59        1.00031                      490135.95
3860288.59        1.43063
         490185.95    3860288.59        1.43151                      490235.95
3860288.59        1.42788
         490285.95    3860288.59        1.42567                      490335.95
3860288.59        1.41947
         490385.95    3860288.59        1.40889                      490435.95
3860288.59        1.39615
         490485.95    3860288.59        1.38069                      490535.95
3860288.59        1.36404
         490585.95    3860288.59        1.34491                      490635.95
3860288.59        1.32372
         490685.95    3860288.59        1.30131                      490735.95
3860288.59        1.27853
         490785.95    3860288.59        1.25512                      490835.95
3860288.59        1.23133
         490885.95    3860288.59        1.20731                      490935.95
3860288.59        1.18301
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                                  PAGE 319
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***

INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490985.95	3860288.59	1.15929	491035.95	3860288.59	1.13526
491085.95	3860288.59	1.11107	490135.95	3860338.59	1.74980
490185.95	3860338.59	1.73286	490235.95	3860338.59	1.71108
490285.95	3860338.59	1.69096	490335.95	3860338.59	1.66861
490385.95	3860338.59	1.64270	490435.95	3860338.59	1.61471
490485.95	3860338.59	1.58572	490535.95	3860338.59	1.55439
490585.95	3860338.59	1.52340	490635.95	3860338.59	1.49114
490685.95	3860338.59	1.45841	490735.95	3860338.59	1.42540
490785.95	3860338.59	1.39254	490835.95	3860338.59	1.36017
490885.95	3860338.59	1.32802	490935.95	3860338.59	1.29618
490985.95	3860338.59	1.26469	491035.95	3860338.59	1.23414
491085.95	3860338.59	1.20411	490135.95	3860388.59	2.12141
490185.95	3860388.59	2.07921	490235.95	3860388.59	2.03326
490285.95	3860388.59	1.98842	490335.95	3860388.59	1.94302
490385.95	3860388.59	1.89714	490435.95		

3860388.59 1.85096
490485.95 3860388.59 1.80335 490535.95
3860388.59 1.75713
490585.95 3860388.59 1.71126 490635.95
3860388.59 1.66621
490685.95 3860388.59 1.62092 490735.95
3860388.59 1.57664
490785.95 3860388.59 1.53337 490835.95
3860388.59 1.49139
490135.95 3860438.59 2.53994 490185.95
3860438.59 2.45881
490235.95 3860438.59 2.38191 490285.95
3860438.59 2.30736
490335.95 3860438.59 2.23596 490385.95
3860438.59 2.16552
490435.95 3860438.59 2.09693 490485.95
3860438.59 2.03079
490535.95 3860438.59 1.96613 490585.95
3860438.59 1.90398
490635.95 3860438.59 1.84336 490685.95
3860438.59 1.78460
490735.95 3860438.59 1.72809 490785.95
3860438.59 1.67356
490835.95 3860438.59 1.62155 490135.95
3860488.59 2.97723
490185.95 3860488.59 2.85554 490235.95
3860488.59 2.74336
490285.95 3860488.59 2.63400 490335.95
3860488.59 2.53355
490385.95 3860488.59 2.43575 490435.95
3860488.59 2.34162
490485.95 3860488.59 2.25538 490535.95
3860488.59 2.17280
490585.95 3860488.59 2.09287 490635.95
3860488.59 2.01642
490685.95 3860488.59 1.94335 490735.95
3860488.59 1.87415
490785.95 3860488.59 1.80826 490135.95
3860538.59 3.41426
490185.95 3860538.59 3.24153 490235.95
3860538.59 3.09712
490285.95 3860538.59 2.95569 490335.95
3860538.59 2.82140
490385.95 3860538.59 2.69525 490435.95
3860538.59 2.57845
490485.95 3860538.59 2.46879 490535.95
3860538.59 2.36199
490585.95 3860538.59 2.27080 490635.95
3860538.59 2.17885
490685.95 3860538.59 2.09221 490735.95

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1   ***
                                    INCLUDING SOURCE(S):   L0000494   , L0000495 , L0000496   , L0000497   , L0000498   ,
                                     L0000499   , L0000500   , L0000501   , L0000502   , L0000503 , L0000504   , L0000505   , L0000506   ,
                                     L0000507   , L0000508   , L0000509   , L0000510   , L0000511 , L0000512   , L0000513   , L0000514   ,
                                     L0000515   , L0000516   , L0000517   , L0000518   , L0000519 , L0000520   , L0000521   , . . .   ,

                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                                ** CONC OF PM_10   IN MICROGRAMS/M**3
                     **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

490385.95 3860638.59 3.14850 490435.95
3860638.59 2.98671
490485.95 3860638.59 2.83711 490535.95
3860638.59 2.69868
490585.95 3860638.59 2.57016 490635.95
3860638.59 2.45070
490685.95 3860638.59 2.33905 490735.95
3860638.59 2.23383
490785.95 3860638.59 2.13654 490135.95
3860688.59 4.49707
490185.95 3860688.59 4.19300 490235.95
3860688.59 3.95662
490285.95 3860688.59 3.73322 490335.95
3860688.59 3.51820
490385.95 3860688.59 3.32154 490435.95
3860688.59 3.14140
490485.95 3860688.59 2.97485 490535.95
3860688.59 2.82217
490585.95 3860688.59 2.68117 490635.95
3860688.59 2.55071
490685.95 3860688.59 2.43000 490735.95
3860688.59 2.31675
490785.95 3860688.59 2.21235 490135.95
3860738.59 4.75414
490185.95 3860738.59 4.43924 490235.95
3860738.59 4.15464
490285.95 3860738.59 3.89760 490335.95
3860738.59 3.66404
490385.95 3860738.59 3.45142 490435.95
3860738.59 3.25655
490485.95 3860738.59 3.07886 490535.95
3860738.59 2.91191
490585.95 3860738.59 2.75959 490635.95
3860738.59 2.62021
490685.95 3860738.59 2.49310 490735.95
3860738.59 2.37483
490785.95 3860738.59 2.26520 490135.95
3860788.59 4.90102
490185.95 3860788.59 4.56895 490235.95
3860788.59 4.26891
490285.95 3860788.59 3.99805 490335.95
3860788.59 3.75128
490385.95 3860788.59 3.53048 490435.95
3860788.59 3.32631
490485.95 3860788.59 3.14091 490535.95
3860788.59 2.96806
490585.95 3860788.59 2.80496 490635.95
3860788.59 2.65831
490685.95 3860788.59 2.52536 490735.95
3860788.59 2.40418

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***

INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 ,
L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 ,
L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 ,
L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490435.95	3860838.59	3.34422	490485.95	3860838.59	3.15510
490535.95	3860838.59	2.98004	490585.95	3860838.59	2.81680
490635.95	3860838.59	2.66617	490685.95	3860838.59	2.53053
490735.95	3860838.59	2.40753	490785.95	3860838.59	2.29213
490835.95	3860838.59	2.18385	489835.95	3860888.59	8.02362
489885.95	3860888.59	7.32915	489935.95		

3860888.59 6.72063
489985.95 3860888.59 6.18912 490035.95
3860888.59 5.71646
490085.95 3860888.59 5.29828 490135.95
3860888.59 4.91900
490185.95 3860888.59 4.57556 490235.95
3860888.59 4.26917
490285.95 3860888.59 3.99230 490335.95
3860888.59 3.74011
490385.95 3860888.59 3.51608 490435.95
3860888.59 3.31271
490485.95 3860888.59 3.12434 490535.95
3860888.59 2.95069
490585.95 3860888.59 2.78972 490635.95
3860888.59 2.64045
490685.95 3860888.59 2.50485 490735.95
3860888.59 2.38065
490785.95 3860888.59 2.26416 490835.95
3860888.59 2.15900
490885.95 3860888.59 2.06348 490935.95
3860888.59 1.97149
489835.95 3860938.59 7.81186 489885.95
3860938.59 7.12602
489935.95 3860938.59 6.53807 489985.95
3860938.59 6.01923
490035.95 3860938.59 5.55776 490085.95
3860938.59 5.14662
490135.95 3860938.59 4.77075 490185.95
3860938.59 4.44570
490235.95 3860938.59 4.15173 490285.95
3860938.59 3.88749
490335.95 3860938.59 3.64273 490385.95
3860938.59 3.42790
490435.95 3860938.59 3.23133 490485.95
3860938.59 3.04861
490535.95 3860938.59 2.88178 490585.95
3860938.59 2.72573
490635.95 3860938.59 2.58191 490685.95
3860938.59 2.45042
490735.95 3860938.59 2.32909 490785.95
3860938.59 2.21722
490835.95 3860938.59 2.11712 490885.95
3860938.59 2.02456
490935.95 3860938.59 1.93477 489835.95
3860988.59 7.42098
489885.95 3860988.59 6.77605 489935.95
3860988.59 6.21363
489985.95 3860988.59 5.72196 490035.95
3860988.59 5.28547
490085.95 3860988.59 4.90220 490135.95

3860988.59   4.55519
         490185.95   3860988.59   4.25196   490235.95
3860988.59   3.96766
         490285.95   3860988.59   3.71561   490335.95
3860988.59   3.49044
         490385.95   3860988.59   3.28674   490435.95
3860988.59   3.10607
         490485.95   3860988.59   2.93406   490535.95
3860988.59   2.77403
         490585.95   3860988.59   2.62781   490635.95
3860988.59   2.49472
         490685.95   3860988.59   2.36926   490735.95
3860988.59   2.25281
         490785.95   3860988.59   2.14746   490835.95
3860988.59   2.05163
         490885.95   3860988.59   1.96396   490935.95
3860988.59   1.87835
         489835.95   3861038.59   6.83272   489885.95
3861038.59   6.25371

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK1   ***
                                  INCLUDING SOURCE(S):   L0000494   , L0000495
, L0000496   , L0000497   , L0000498   ,
                 L0000499   , L0000500   , L0000501   , L0000502   , L0000503
, L0000504   , L0000505   , L0000506   ,
                 L0000507   , L0000508   , L0000509   , L0000510   , L0000511
, L0000512   , L0000513   , L0000514   ,
                 L0000515   , L0000516   , L0000517   , L0000518   , L0000519
, L0000520   , L0000521   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         489935.95   3861038.59   5.73909   489985.95
3861038.59   5.29485

490035.95 3861038.59 4.90703 490085.95
3861038.59 4.56243
490135.95 3861038.59 4.25438 490185.95
3861038.59 3.97662
490235.95 3861038.59 3.72869 490285.95
3861038.59 3.49690
490335.95 3861038.59 3.28916 490385.95
3861038.59 3.10916
490435.95 3861038.59 2.94381 490485.95
3861038.59 2.78707
490535.95 3861038.59 2.64069 490585.95
3861038.59 2.50518
490635.95 3861038.59 2.37955 490685.95
3861038.59 2.26383
490735.95 3861038.59 2.15730 490785.95
3861038.59 2.05994
490835.95 3861038.59 1.97022 490885.95
3861038.59 1.88621
490935.95 3861038.59 1.80825 489835.95
3861088.59 6.08429
489885.95 3861088.59 5.58285 489935.95
3861088.59 5.15261
489985.95 3861088.59 4.77586 490035.95
3861088.59 4.44635
490085.95 3861088.59 4.15825 490135.95
3861088.59 3.90242
490185.95 3861088.59 3.67289 490235.95
3861088.59 3.44941
490285.95 3861088.59 3.24778 490335.95
3861088.59 3.06259
490385.95 3861088.59 2.90253 490435.95
3861088.59 2.75157
490485.95 3861088.59 2.61244 490535.95
3861088.59 2.48612
490585.95 3861088.59 2.36368 490635.95
3861088.59 2.24793
490685.95 3861088.59 2.14301 490735.95
3861088.59 2.04736
490785.95 3861088.59 1.95831 490835.95
3861088.59 1.87557
490885.95 3861088.59 1.79853 490935.95
3861088.59 1.72730
489020.79 3862564.85 0.22756 489043.15
3862350.21 0.28501
489072.96 3862287.60 0.30576 488980.55
3862078.92 0.41094
489037.19 3862822.72 0.17916 489120.66
3863016.49 0.15163
489037.19 3863350.37 0.12054

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)					
	489237.26	489256.56	489275.86	489295.16	489314.46	489333.76
3859957.07	0.16004	0.16004	0.16105	0.16187	0.16232	0.16255
3859937.65	0.15849	0.15838	0.15920	0.16001	0.16046	0.16107
3859918.23	0.15636	0.15641	0.15722	0.15769	0.15847	0.15924
3859898.81	0.15457	0.15479	0.15559	0.15623	0.15700	0.15778
3859879.39	0.15295	0.15334	0.15442	0.15521	0.15584	0.15662
3859859.97	0.15123	0.15162	0.15255	0.15333	0.15396	0.15473
3859840.55	0.14942	0.14981	0.15059	0.15136	0.15212	0.15288
3859821.13	0.14753	0.14792	0.14841	0.14917	0.15006	0.15081
3859801.71	0.14557	0.14594	0.14670	0.14732	0.14833	0.14933
3859782.29	0.14379	0.14416	0.14503	0.14537	0.14651	

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489507.46    489526.76    489546.06    489565.36
 - - -
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489584.66	489603.96	489623.26
3859957.07	0.15912	0.15696	0.15423
3859937.65	0.16333	0.16238	0.15851
3859918.23	0.16242	0.16257	0.16014
3859898.81	0.16253	0.16213	0.16180
3859879.39	0.16191	0.16197	0.16224
3859859.97	0.16144	0.16115	0.16186
3859840.55	0.16034	0.16029	0.16140
3859821.13	0.15851	0.15959	0.16052
3859801.71	0.15726	0.15813	0.15942
3859782.29	0.15582	0.15655	0.15810
3859762.87	0.15408	0.15480	0.15695
3859743.45	0.15237	0.15323	0.15546
3859724.03	0.15082	0.15182	0.15384
3859704.61	0.14930	0.15027	0.15210
3859685.19	0.14780	0.14860	0.15026
3859665.77	0.14617	0.14696	0.14845
3859646.35	0.14457	0.14534	0.14667
3859626.93	0.14323	0.14389	0.14493
3859607.51	0.14201	0.14243	0.14322
3859588.09	0.14035	0.14088	0.14153
3859568.67	0.13872	0.13936	0.13977

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***

INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489260.34	489284.99	489309.64	489334.29	489358.94	489383.59	489408.24	489432.89	489457.54
3859173.42	0.10131	0.10160	0.10265	0.10346	0.10398	0.10465	0.10525	0.10577	0.10622
3859151.85	0.10019	0.10091	0.10164	0.10229	0.10281	0.10347	0.10404	0.10456	0.10500
3859130.28	0.09922	0.10000	0.10057	0.10115	0.10164	0.10221	0.10286	0.10330	0.10380
3859108.71	0.09826	0.09896	0.09945	0.09994	0.10043	0.10106	0.10170	0.10205	0.10255
3859087.14	0.09724	0.09779	0.09835	0.09882	0.09930	0.10000	0.10049	0.10090	0.10130
3859065.57	0.09617	0.09671	0.09725	0.09765	0.09820	0.09881	0.09922	0.09977	0.10024
3859044.00	0.09504	0.09557	0.09610	0.09657	0.09703	0.09764	0.09804	0.09866	0.09919
3859022.43	0.09400	0.09452	0.09504	0.09550	0.09596	0.09655	0.09709	0.09763	0.09809
3859000.86	0.09285	0.09342	0.09400	0.09444	0.09490	0.09542	0.09593	0.09653	0.09700
3858979.29	0.09176	0.09233	0.09296	0.09341	0.09386	0.09428	0.09487	0.09546	0.09599
3858957.72	0.09082	0.09138	0.09188	0.09244	0.09289	0.09331	0.09382	0.09441	0.09499

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  3858936.15 |       0.08983      0.09038      0.09088      0.09137      0.09179
 0.09222      0.09273      0.09320      0.09378
  3858914.58 |       0.08886      0.08934      0.08980      0.09029      0.09078
 0.09121      0.09168      0.09217      0.09268
  3858893.01 |       0.08789      0.08829      0.08871      0.08925      0.08985
 0.09028      0.09061      0.09116      0.09165
  3858871.44 |       0.08700      0.08739      0.08775      0.08828      0.08872
 0.08919      0.08961      0.09015      0.09054
  3858849.87 |       0.08612      0.08645      0.08685      0.08729      0.08775
 0.08816      0.08862      0.08907      0.08946
  3858828.30 |       0.08512      0.08551      0.08588      0.08640      0.08679
 0.08718      0.08757      0.08801      0.08846
  3858806.73 |       0.08420      0.08459      0.08495      0.08546      0.08585
 0.08615      0.08641      0.08697      0.08742
  3858785.16 |       0.08325      0.08365      0.08409      0.08453      0.08496
 0.08527      0.08551      0.08601      0.08638
  3858763.59 |       0.08227      0.08270      0.08313      0.08355      0.08396
 0.08432      0.08468      0.08505      0.08541
  3858742.02 |       0.08122      0.08163      0.08204      0.08245      0.08287
 0.08328      0.08363      0.08410      0.08445
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 327
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
                                  INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                  L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     489482.19    489506.84    489531.49    489556.14    489580.79
489605.44    489630.09    489654.74    489679.39
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
```

 3859173.42 | 0.10666   0.10720   0.10772   0.10863   0.10918
0.10994   0.11073   0.11154   0.11247
 3859151.85 | 0.10552   0.10595   0.10648   0.10719   0.10792
0.10883   0.10952   0.11032   0.11114
 3859130.28 | 0.10432   0.10474   0.10534   0.10596   0.10676
0.10757   0.10825   0.10903   0.10975
 3859108.71 | 0.10314   0.10355   0.10415   0.10484   0.10554
0.10618   0.10700   0.10756   0.10835
 3859087.14 | 0.10195   0.10261   0.10305   0.10372   0.10422
0.10485   0.10565   0.10632   0.10708
 3859065.57 | 0.10088   0.10145   0.10196   0.10244   0.10304
0.10358   0.10436   0.10501   0.10576
 3859044.00 | 0.09975   0.10025   0.10089   0.10129   0.10187
0.10239   0.10317   0.10379   0.10443
 3859022.43 | 0.09857   0.09913   0.09965   0.10029   0.10072
0.10121   0.10189   0.10250   0.10313
 3859000.86 | 0.09754   0.09792   0.09854   0.09916   0.09958
0.10006   0.10072   0.10131   0.10185
 3858979.29 | 0.09646   0.09682   0.09736   0.09798   0.09852
0.09899   0.09955   0.10007   0.10059
 3858957.72 | 0.09535   0.09581   0.09626   0.09671   0.09747
0.09793   0.09834   0.09891   0.09942
 3858936.15 | 0.09423   0.09474   0.09517   0.09561   0.09620
0.09673   0.09720   0.09776   0.09819
 3858914.58 | 0.09318   0.09375   0.09416   0.09453   0.09497
0.09555   0.09608   0.09655   0.09703
 3858893.01 | 0.09213   0.09276   0.09310   0.09352   0.09389
0.09432   0.09497   0.09542   0.09589
 3858871.44 | 0.09102   0.09149   0.09191   0.09239   0.09281
0.09317   0.09380   0.09424   0.09476
 3858849.87 | 0.08993   0.09040   0.09087   0.09133   0.09174
0.09216   0.09270   0.09307   0.09358
 3858828.30 | 0.08892   0.08938   0.08977   0.09029   0.09075
0.09109   0.09162   0.09198   0.09248
 3858806.73 | 0.08792   0.08830   0.08869   0.08919   0.08970
0.09003   0.09043   0.09084   0.09139
 3858785.16 | 0.08681   0.08724   0.08762   0.08805   0.08855
0.08893   0.08938   0.08966   0.09025
 3858763.59 | 0.08577   0.08620   0.08656   0.08698   0.08747
0.08784   0.08834   0.08860   0.08912
 3858742.02 | 0.08481   0.08516   0.08563   0.08605   0.08641
0.08664   0.08737   0.08770   0.08814

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***

INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489704.04	489728.69	489753.34
3859173.42	0.11333	0.11422	0.11504
3859151.85	0.11190	0.11277	0.11357
3859130.28	0.11050	0.11135	0.11208
3859108.71	0.10915	0.10982	0.11059
3859087.14	0.10779	0.10852	0.10935
3859065.57	0.10653	0.10723	0.10803
3859044.00	0.10517	0.10587	0.10665
3859022.43	0.10385	0.10453	0.10529
3859000.86	0.10249	0.10314	0.10396
3858979.29	0.10121	0.10185	0.10264
3858957.72	0.10009	0.10071	0.10127
3858936.15	0.09884	0.09944	0.09999
3858914.58	0.09760	0.09819	0.09872
3858893.01	0.09644	0.09695	0.09754
3858871.44	0.09530	0.09572	0.09630
3858849.87	0.09410	0.09458	0.09514
3858828.30	0.09299	0.09345	0.09393
3858806.73	0.09188	0.09234	0.09287
3858785.16	0.09067	0.09117	0.09175
3858763.59	0.08953	0.09000	0.09057
3858742.02	0.08860	0.08888	0.08943

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	488584.66	488614.48	488644.30	488674.12	488703.94	488733.76	488763.58	488793.40	488823.22
3858904.98	0.07729	0.07773	0.07810	0.07854	0.07895	0.07936	0.07966	0.08032	0.08082
3858880.05	0.07643	0.07682	0.07721	0.07769	0.07797	0.07829	0.07883	0.07935	0.08002
3858855.12	0.07554	0.07600	0.07631	0.07669	0.07709	0.07736	0.07818	0.07853	0.07906
3858830.19	0.07470	0.07514	0.07533	0.07551	0.07629	0.07676	0.07725	0.07771	0.07819
3858805.26	0.07361	0.07375	0.07453	0.07493	0.07550	0.07589	0.07632	0.07677	0.07728
3858780.33	0.07298	0.07341	0.07376	0.07413	0.07453	0.07498	0.07541	0.07585	0.07634
3858755.40	0.07223	0.07266	0.07297	0.07333	0.07373	0.07409	0.07455	0.07497	0.07542
3858730.47	0.07144	0.07181	0.07215	0.07257	0.07296	0.07332	0.07373	0.07415	0.07455
3858705.54	0.07065	0.07105	0.07135	0.07176	0.07217	0.07256	0.07293	0.07330	0.07374
3858680.61	0.06984	0.07026	0.07045	0.07084	0.07125	0.07171	0.07214	0.07250	0.07293
3858655.68	0.06903	0.06948	0.06980	0.07012	0.07048	0.07086	0.07127	0.07164	0.07209
3858630.75	0.06821	0.06865	0.06899	0.06934	0.06970	0.07005	0.07047	0.07083	0.07127
3858605.82	0.06740	0.06782	0.06819	0.06857	0.06892				

0.06927 0.06968 0.06999 0.07043
3858580.89 | 0.06663 0.06705 0.06741 0.06780 0.06810
0.06846 0.06886 0.06920 0.06955
3858555.96 | 0.06599 0.06634 0.06666 0.06701 0.06735
0.06766 0.06798 0.06835 0.06877
3858531.03 | 0.06517 0.06554 0.06592 0.06627 0.06660
0.06694 0.06718 0.06762 0.06804
3858506.10 | 0.06446 0.06483 0.06513 0.06547 0.06579
0.06612 0.06647 0.06684 0.06725
3858481.17 | 0.06373 0.06409 0.06435 0.06472 0.06503
0.06535 0.06570 0.06606 0.06647
3858456.24 | 0.06301 0.06332 0.06364 0.06400 0.06432
0.06460 0.06494 0.06529 0.06569
3858431.31 | 0.06229 0.06260 0.06294 0.06330 0.06360
0.06393 0.06423 0.06450 0.06493
3858406.38 | 0.06164 0.06192 0.06232 0.06264 0.06291
0.06319 0.06352 0.06379 0.06417
↟ *** AERMOD - VERSION 23132 *** *** C:\Users\dlarocca\Desktop\Lakes Files\15054 Lennwood\Lennwood\Lennwo *** 07/17/24
*** AERMET - VERSION 19191 *** *** 01:16:45

PAGE 330
*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD | X-COORD (METERS)
(METERS) | 488853.04 488882.86 488912.68 488942.50 488972.32 489002.14 489031.96 489061.78 489091.60
- - - -

```
 3858880.05 |       0.08045      0.08101      0.08154      0.08221      0.08267
0.08307      0.08356      0.08404      0.08452
 3858855.12 |       0.07956      0.08006      0.08053      0.08119      0.08164
0.08202      0.08260      0.08307      0.08349
 3858830.19 |       0.07868      0.07913      0.07954      0.08013      0.08046
0.08108      0.08160      0.08206      0.08236
 3858805.26 |       0.07776      0.07825      0.07869      0.07913      0.07926
0.08006      0.08057      0.08096      0.08146
 3858780.33 |       0.07672      0.07715      0.07758      0.07810      0.07847
0.07896      0.07950      0.07994      0.08043
 3858755.40 |       0.07583      0.07621      0.07667      0.07718      0.07763
0.07802      0.07850      0.07893      0.07936
 3858730.47 |       0.07504      0.07541      0.07586      0.07631      0.07676
0.07714      0.07761      0.07793      0.07836
 3858705.54 |       0.07421      0.07462      0.07502      0.07542      0.07586
0.07632      0.07674      0.07710      0.07752
 3858680.61 |       0.07328      0.07363      0.07411      0.07454      0.07496
0.07538      0.07583      0.07629      0.07674
 3858655.68 |       0.07248      0.07282      0.07326      0.07368      0.07418
0.07454      0.07495      0.07529      0.07579
 3858630.75 |       0.07165      0.07199      0.07245      0.07282      0.07331
0.07367      0.07406      0.07441      0.07485
 3858605.82 |       0.07079      0.07117      0.07167      0.07203      0.07247
0.07282      0.07320      0.07358      0.07391
 3858580.89 |       0.06996      0.07041      0.07089      0.07124      0.07160
0.07197      0.07235      0.07273      0.07305
 3858555.96 |       0.06921      0.06961      0.07005      0.07043      0.07078
0.07110      0.07147      0.07182      0.07219
 3858531.03 |       0.06847      0.06883      0.06921      0.06960      0.06996
0.07033      0.07063      0.07099      0.07134
 3858506.10 |       0.06767      0.06801      0.06839      0.06872      0.06909
0.06948      0.06982      0.07012      0.07048
 3858481.17 |       0.06680      0.06718      0.06758      0.06791      0.06830
0.06863      0.06897      0.06927      0.06961
 3858456.24 |       0.06598      0.06635      0.06678      0.06714      0.06750
0.06784      0.06810      0.06846      0.06878
 3858431.31 |       0.06533      0.06568      0.06600      0.06636      0.06669
0.06702      0.06731      0.06762      0.06791
 3858406.38 |       0.06459      0.06491      0.06520      0.06557      0.06593
0.06621      0.06652      0.06676      0.06705
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 331
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
```

INCLUDING SOURCE(S): L0000539 , L0000540
, L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548
, L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556
, L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564
, L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)		
	489121.42	489151.24	489181.06
3858904.98	0.08606	0.08660	0.08700
3858880.05	0.08499	0.08543	0.08592
3858855.12	0.08390	0.08432	0.08481
3858830.19	0.08276	0.08334	0.08371
3858805.26	0.08187	0.08222	0.08262
3858780.33	0.08087	0.08127	0.08161
3858755.40	0.07984	0.08022	0.08068
3858730.47	0.07884	0.07921	0.07965
3858705.54	0.07783	0.07821	0.07862
3858680.61	0.07700	0.07742	0.07767
3858655.68	0.07619	0.07655	0.07679
3858630.75	0.07534	0.07573	0.07597
3858605.82	0.07439	0.07478	0.07506
3858580.89	0.07342	0.07373	0.07411
3858555.96	0.07249	0.07285	0.07326
3858531.03	0.07163	0.07198	0.07232
3858506.10	0.07082	0.07111	0.07144
3858481.17	0.06993	0.07025	0.07058
3858456.24	0.06904	0.06940	0.06968
3858431.31	0.06821	0.06848	0.06879
3858406.38	0.06731	0.06765	0.06795

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540
, L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548
, L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556
, L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564
, L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)								
	489386.10	489460.62	489535.14	489609.66	489684.18	489758.70	489833.22	489907.74	489982.26
3861675.76	0.43381	0.46225	0.48150	0.50322	0.52380	0.54524	0.56666	0.58601	0.60263
3861650.62	0.45601	0.48500	0.50976	0.53400	0.55654	0.57866	0.60159	0.62405	0.63814
3861625.48	0.47980	0.50839	0.53740	0.56489	0.59109	0.61738	0.64089	0.66744	0.68274
3861600.34	0.50487	0.53961	0.56754	0.59928	0.63266	0.66366	0.68705	0.71168	0.73778
3861575.20	0.54055	0.56930	0.59994	0.63784	0.67527	0.70587	0.73388	0.75949	0.79466
3861550.06	0.57270	0.60381	0.64046	0.68016	0.71624	0.75032	0.78414	0.81783	0.85600
3861524.92	0.60713	0.64430	0.68521	0.72687	0.76534	0.80403	0.84316	0.88330	0.92300
3861499.78	0.64615	0.68924	0.73510	0.78295	0.82785	0.86681	0.91359	0.96032	1.00951
3861474.64	0.69082	0.74044	0.79304	0.84912	0.90276	0.94263	0.99761	1.05059	1.11341
3861449.50	0.74075	0.80038	0.86112	0.92400	0.97989	1.03828	1.09889	1.15739	1.21732
3861424.36	0.80124	0.87273	0.94092	1.01213	1.08295	1.14848	1.22225	1.29750	1.34629
3861399.22	0.87347	0.95745	1.03565	1.12424	1.21017	1.28698	1.37410	1.44607	1.50240
3861374.08	0.95991	1.05958	1.15606	1.26505	1.36640	1.45751	1.55851	1.62593	1.69457
3861348.94	1.06744	1.18940	1.30944	1.44194	1.56109	1.67099	1.78253	1.85533	1.93544

```
  3861323.80 |       1.20519      1.36570      1.51818      1.67472      1.81989
 1.94996      2.05636      2.15284      2.24342
  3861298.66 |       1.39152      1.60302      1.80631      1.99356      2.18221
 2.32091      2.43530      2.54482      2.65422
  3861273.52 |       1.66177      1.94154      2.21005      2.45800      2.65817
 2.83067      2.95999      3.08289      3.19431
  3861248.38 |       2.09442      2.47693      2.80779      3.13244      3.35195
 3.54692      3.71070      3.83238      3.92597
  3861223.24 |       2.85368      3.40084      3.77249      4.17219      4.41814
 4.64301      4.83088      4.93464      5.00335
  3861198.10 |       4.38721      5.13299      5.51525      5.94475      6.24577
 6.48034      6.66821      6.74639      6.78499
  3861172.96 |       8.20680      9.05635      9.15727      9.71882     10.00027
10.19242     10.33156     10.32371     10.29735
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 333
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
                                 INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                  L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     490056.78    490131.30    490205.82    490280.34    490354.86
490429.38    490503.90    490578.42    490652.94
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3861675.76 |       0.62050      0.63693      0.64614      0.65880      0.67631
 0.69193      0.70802      0.72211      0.74281
  3861650.62 |       0.65819      0.67739      0.69322      0.71369      0.72124
 0.73765      0.75344      0.77743      0.80378
  3861625.48 |       0.70474      0.72870      0.75058      0.77669      0.78126
```

```
 0.79972      0.81448      0.84348      0.86834
  3861600.34 |       0.76305      0.78984      0.81563      0.84075      0.86103
 0.88107      0.89673      0.91263      0.92858
  3861575.20 |       0.81895      0.84636      0.88005      0.90461      0.92414
 0.94570      0.96461      0.98446      0.99719
  3861550.06 |       0.88324      0.92181      0.95212      0.98184      0.99846
 1.02861      1.04112      1.06125      1.07582
  3861524.92 |       0.96218      1.00012      1.03079      1.06634      1.09178
 1.11189      1.12872      1.14925      1.16635
  3861499.78 |       1.05014      1.08627      1.12787      1.16623      1.19366
 1.20820      1.22713      1.24929      1.26976
  3861474.64 |       1.14606      1.18983      1.24266      1.27895      1.30128
 1.32561      1.34233      1.36348      1.38552
  3861449.50 |       1.25904      1.32403      1.36706      1.40305      1.42177
 1.45220      1.47821      1.49940      1.52001
  3861424.36 |       1.39550      1.45757      1.51357      1.54759      1.56640
 1.60208      1.62408      1.65353      1.67368
  3861399.22 |       1.55725      1.62290      1.68145      1.71353      1.73791
 1.77389      1.79779      1.82930      1.85031
  3861374.08 |       1.75808      1.82772      1.88644      1.91249      1.94166
 1.97923      2.00805      2.04136      2.06302
  3861348.94 |       2.00643      2.07460      2.14208      2.15976      2.19025
 2.22562      2.26068      2.29236      2.31741
  3861323.80 |       2.31592      2.38193      2.43354      2.47160      2.50741
 2.53846      2.56976      2.59801      2.62727
  3861298.66 |       2.71390      2.79737      2.81820      2.86625      2.89431
 2.93703      2.96668      3.01286      3.00875
  3861273.52 |       3.22962      3.29665      3.34192      3.38072      3.40130
 3.46756      3.47541      3.50678      3.51750
  3861248.38 |       3.95367      3.99085      4.05062      4.07063      4.09482
 4.15889      4.17043      4.25168      4.19482
  3861223.24 |       5.02981      5.04207      5.08978      5.13379      5.11647
 5.17287      5.20379      5.30163      5.17224
  3861198.10 |       6.78356      6.75587      6.78761      6.89259      6.73939
 6.85156      6.86261      6.88513      6.71925
  3861172.96 |      10.27632      9.96875     10.01842      9.96133      9.78277
 9.84326      9.87531      9.75811      9.52253
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 334
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
                                   INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
```

, L0000549   , L0000550   , L0000551   ,
                L0000552   , L0000553   , L0000554   , L0000555   , L0000556
, L0000557   , L0000558   , L0000559   ,
                L0000560   , L0000561   , L0000562   , L0000563   , L0000564
, L0000565   , L0000566   , . . .   ,

                                *** NETWORK ID: UCART4   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 490727.46   490801.98   490876.50
 -
- -

  3861675.76 | 0.77269   0.78003   0.79447
  3861650.62 | 0.82953   0.83935   0.85453
  3861625.48 | 0.88264   0.89726   0.91063
  3861600.34 | 0.94316   0.96093   0.97190
  3861575.20 | 1.01366   1.03127   1.04181
  3861550.06 | 1.09235   1.11032   1.12002
  3861524.92 | 1.18505   1.19869   1.20916
  3861499.78 | 1.28766   1.30413   1.31150
  3861474.64 | 1.40274   1.42412   1.43000
  3861449.50 | 1.53975   1.55116   1.56536
  3861424.36 | 1.69131   1.70814   1.71209
  3861399.22 | 1.87797   1.88744   1.89626
  3861374.08 | 2.09354   2.10330   2.11216
  3861348.94 | 2.34174   2.36411   2.37374
  3861323.80 | 2.64905   2.67396   2.69586
  3861298.66 | 3.07265   3.09814   3.09312
  3861273.52 | 3.56893   3.61198   3.59756
  3861248.38 | 4.23839   4.30784   4.28669
  3861223.24 | 5.22161   5.29967   5.26738
  3861198.10 | 6.74455   6.82356   6.75319
  3861172.96 | 9.48117   9.53841   9.43779

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
                                INCLUDING SOURCE(S):   L0000539   , L0000540
, L0000541   , L0000542   , L0000543   ,

```
                 L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                 L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                 L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                  *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     491611.20    491641.99    491672.78    491703.57    491734.36
491765.15    491795.94    491826.73    491857.52
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3861693.54 |       0.71445      0.71164      0.70952      0.70316      0.69818
 0.69322      0.68965      0.68645      0.68313
  3861664.09 |       0.76233      0.75838      0.75268      0.74853      0.74385
 0.73917      0.73444      0.72914      0.72326
  3861634.64 |       0.81644      0.81111      0.80508      0.80019      0.79472
 0.78756      0.78418      0.77744      0.77006
  3861605.19 |       0.87526      0.87023      0.86318      0.85677      0.85155
 0.84385      0.83783      0.83052      0.82309
  3861575.74 |       0.94221      0.93542      0.92716      0.92028      0.91198
 0.90426      0.89704      0.88840      0.87963
  3861546.29 |       1.01647      1.00912      0.99860      0.98961      0.98125
 0.97200      0.96398      0.95370      0.94463
  3861516.84 |       1.10101      1.09122      1.08049      1.06883      1.05786
 1.04593      1.03464      1.02396      1.01238
  3861487.39 |       1.19594      1.18411      1.17211      1.15804      1.14382
 1.12945      1.11583      1.10209      1.08827
  3861457.94 |       1.30438      1.28881      1.27303      1.25703      1.24080
 1.22340      1.20690      1.19126      1.17459
  3861428.49 |       1.43193      1.41014      1.39187      1.37208      1.35208
 1.33195      1.31175      1.29147      1.27007
  3861399.04 |       1.57919      1.55215      1.52910      1.50303      1.47951
 1.45457      1.42832      1.40199      1.37665
  3861369.59 |       1.74934      1.71695      1.68756      1.65481      1.62357
 1.59360      1.56054      1.52862      1.49652
  3861340.14 |       1.95209      1.91233      1.87235      1.83223      1.79186
 1.75114      1.71012      1.67196      1.62812
  3861310.69 |       2.20004      2.14483      2.09183      2.03843      1.98457
 1.93240      1.87848      1.82697      1.77326
  3861281.24 |       2.50908      2.43278      2.35616      2.28450      2.21049
 2.13762      2.06660      1.99792      1.93362
  3861251.79 |       2.89629      2.78419      2.67307      2.57038      2.46519
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***

INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)										
	491888.31	491919.10	491949.89	491980.68	492011.47	492042.26	492073.05	492103.84	492134.63		
3861693.54	0.67797	0.66917	0.66518	0.66064	0.65601	0.65131	0.64489	0.63971	0.63493		
3861664.09	0.71874	0.71266	0.70744	0.70347	0.69849	0.69299	0.68220	0.67629	0.67125		
3861634.64	0.76365	0.75816	0.75303	0.74728	0.74192	0.73602	0.72826	0.71772	0.70997		
3861605.19	0.81610	0.80899	0.80232	0.79504	0.78771	0.78135	0.77296	0.76504	0.75515		

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  3861575.74 |       0.87257      0.86359      0.85514      0.84776      0.83866
 0.83219      0.82550      0.81270      0.80488
  3861546.29 |       0.93478      0.92486      0.91489      0.90489      0.89715
 0.88641      0.87392      0.86304      0.85317
  3861516.84 |       1.00286      0.99111      0.97865      0.96615      0.95740
 0.94529      0.92944      0.91778      0.90484
  3861487.39 |       1.07599      1.06278      1.04945      1.03453      1.02091
 1.00910      0.99054      0.97528      0.96068
  3861457.94 |       1.15784      1.14184      1.12481      1.10922      1.09188
 1.07807      1.05559      1.03825      1.02103
  3861428.49 |       1.24858      1.22888      1.20896      1.18888      1.16789
 1.15094      1.12700      1.10570      1.08473
  3861399.04 |       1.35113      1.32652      1.30182      1.27621      1.25084
 1.22927      1.20200      1.17697      1.15328
  3861369.59 |       1.46560      1.43130      1.40305      1.37080      1.34023
 1.31319      1.28021      1.25179      1.22582
  3861340.14 |       1.59173      1.54682      1.51058      1.47277      1.43603
 1.40351      1.36684      1.33334      1.30094
  3861310.69 |       1.72560      1.67356      1.62616      1.58172      1.53882
 1.49972      1.45658      1.41830      1.37953
  3861281.24 |       1.87017      1.80949      1.75155      1.69628      1.64752
 1.59588      1.54675      1.50222      1.45866
  3861251.79 |       2.02308      1.95052      1.88202      1.81737      1.75774
 1.69603      1.64045      1.58673      1.53713
  3861222.34 |       2.18449      2.09844      2.01647      1.93844      1.86572
 1.79636      1.73426      1.67469      1.61753
  3861192.89 |       2.35317      2.24651      2.15054      2.06036      1.97709
 1.89536      1.82692      1.76166      1.69939
  3861163.44 |       2.51361      2.39058      2.27885      2.17690      2.08521
 1.99425      1.91662      1.84605      1.77632
  3861133.99 |       2.64917      2.51719      2.39340      2.27908      2.17686
 2.08326      1.99882      1.92081      1.84566
  3861104.54 |       2.76493      2.61774      2.48532      2.36551      2.25857
 2.16074      2.07088      1.98643      1.90841
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***       07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***       01:16:45

                                  PAGE 337
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
                                  INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
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                 L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                  *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                X-COORD (METERS)
    (METERS) |     492165.42    492196.21    492227.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3861693.54 |       0.63013      0.62491      0.62045
  3861664.09 |       0.66573      0.66017      0.65497
  3861634.64 |       0.70173      0.69803      0.69105
  3861605.19 |       0.74423      0.73766      0.72955
  3861575.74 |       0.79145      0.78049      0.77153
  3861546.29 |       0.84158      0.83049      0.81834
  3861516.84 |       0.89358      0.88004      0.86767
  3861487.39 |       0.94674      0.93225      0.91789
  3861457.94 |       1.00398      0.98714      0.97117
  3861428.49 |       1.06556      1.04602      1.02686
  3861399.04 |       1.13087      1.10821      1.08680
  3861369.59 |       1.19884      1.17339      1.14864
  3861340.14 |       1.26960      1.24016      1.21247
  3861310.69 |       1.34328      1.30756      1.27590
  3861281.24 |       1.41613      1.37657      1.33974
  3861251.79 |       1.49018      1.44465      1.40249
  3861222.34 |       1.56497      1.51436      1.46559
  3861192.89 |       1.63992      1.58306      1.52972
  3861163.44 |       1.71141      1.64964      1.59306
  3861133.99 |       1.77728      1.71488      1.65538
  3861104.54 |       1.83609      1.77150      1.70870
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 338
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
                                   INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
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, L0000557   , L0000558   , L0000559   ,
                L0000560   , L0000561   , L0000562   , L0000563   , L0000564
, L0000565   , L0000566   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
         489935.95    3859138.59        0.11842                    489985.95
3859138.59        0.11944
         490035.95    3859138.59        0.12050                    490085.95
3859138.59        0.12223
         490135.95    3859138.59        0.12489                    490185.95
3859138.59        0.12704
         490235.95    3859138.59        0.12868                    490285.95
3859138.59        0.12887
         490335.95    3859138.59        0.12852                    490385.95
3859138.59        0.12701
         490435.95    3859138.59        0.12819                    490485.95
3859138.59        0.12795
         490535.95    3859138.59        0.12654                    490585.95
3859138.59        0.12657
         490635.95    3859138.59        0.12570                    490685.95
3859138.59        0.12529
         490735.95    3859138.59        0.12608                    490785.95
3859138.59        0.12644
         490835.95    3859138.59        0.12601                    490885.95
3859138.59        0.12577
         489835.95    3859188.59        0.11877                    489885.95
3859188.59        0.12017
         489935.95    3859188.59        0.12203                    489985.95
3859188.59        0.12302
         490035.95    3859188.59        0.12491                    490085.95
3859188.59        0.12765
         490135.95    3859188.59        0.12949                    490185.95
3859188.59        0.13107
         490235.95    3859188.59        0.13177                    490285.95
3859188.59        0.13253
         490335.95    3859188.59        0.13340                    490385.95
3859188.59        0.13325
         490435.95    3859188.59        0.13259                    490485.95
3859188.59        0.13082
         490535.95    3859188.59        0.13070                    490585.95
3859188.59        0.13150
         490635.95    3859188.59        0.13004                    490685.95
3859188.59        0.12730
         490735.95    3859188.59        0.12625                    490785.95
3859188.59        0.12589
         490835.95    3859188.59        0.12997                    490885.95
3859188.59        0.13018
         489835.95    3859238.59        0.12204                    489885.95
3859238.59        0.12396
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
489935.95	3859238.59	0.12556	489985.95	3859238.59	0.12615
490035.95	3859238.59	0.12865	490085.95	3859238.59	0.13184
490135.95	3859238.59	0.13428	490185.95	3859238.59	0.13640
490235.95	3859238.59	0.13698	490285.95	3859238.59	0.13710
490335.95	3859238.59	0.13736	490385.95	3859238.59	0.13796
490435.95	3859238.59	0.13813	490485.95	3859238.59	0.13862
490535.95	3859238.59	0.13782	490585.95	3859238.59	0.13683
490635.95	3859238.59	0.13610	490685.95	3859238.59	0.13771
490735.95	3859238.59	0.13706	490785.95	3859238.59	0.13850
490835.95	3859238.59	0.14011	490885.95	3859238.59	0.14021
489835.95	3859288.59	0.12586	489885.95	3859288.59	0.12768
489935.95	3859288.59	0.12920	489985.95	3859288.59	0.12980
490035.95	3859288.59	0.13293	490085.95	3859288.59	0.13582
490135.95	3859288.59	0.13865	490185.95		

3859288.59 0.14082
490235.95 3859288.59 0.14190 490285.95
3859288.59 0.14318
490335.95 3859288.59 0.14310 490385.95
3859288.59 0.14293
490435.95 3859288.59 0.14184 490485.95
3859288.59 0.14431
490535.95 3859288.59 0.14776 490585.95
3859288.59 0.14651
490635.95 3859288.59 0.14850 490685.95
3859288.59 0.14949
490735.95 3859288.59 0.14802 490785.95
3859288.59 0.14964
490835.95 3859288.59 0.15130 490885.95
3859288.59 0.15220
489835.95 3859338.59 0.13002 489885.95
3859338.59 0.13220
489935.95 3859338.59 0.13306 489985.95
3859338.59 0.13520
490035.95 3859338.59 0.13809 490085.95
3859338.59 0.14140
490135.95 3859338.59 0.14384 490185.95
3859338.59 0.14593
490235.95 3859338.59 0.14782 490285.95
3859338.59 0.14917
490335.95 3859338.59 0.14941 490385.95
3859338.59 0.15050
490435.95 3859338.59 0.15200 490485.95
3859338.59 0.15299
490535.95 3859338.59 0.15496 490585.95
3859338.59 0.15657
490635.95 3859338.59 0.15884 490685.95
3859338.59 0.15917
490735.95 3859338.59 0.15910 490785.95
3859338.59 0.16041
490835.95 3859338.59 0.16483 490885.95
3859338.59 0.16601
489835.95 3859388.59 0.13357 489885.95
3859388.59 0.13579
489935.95 3859388.59 0.13860 489985.95
3859388.59 0.14060
490035.95 3859388.59 0.14375 490085.95
3859388.59 0.14705
490135.95 3859388.59 0.14966 490185.95
3859388.59 0.15174
490235.95 3859388.59 0.15349 490285.95
3859388.59 0.15568
490335.95 3859388.59 0.15702 490385.95
3859388.59 0.15898
490435.95 3859388.59 0.16147 490485.95

3859388.59 0.16377
 490535.95 3859388.59 0.16569 490585.95
3859388.59 0.16749

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490635.95	3859388.59	0.16913	490685.95	3859388.59	0.16763
490735.95	3859388.59	0.16533	490785.95	3859388.59	0.16996
490835.95	3859388.59	0.17773	490885.95	3859388.59	0.18180
489835.95	3859438.59	0.13892	489885.95	3859438.59	0.14092
489935.95	3859438.59	0.14340	489985.95	3859438.59	0.14632
490035.95	3859438.59	0.14947	490085.95	3859438.59	0.15216
490135.95	3859438.59	0.15512	490185.95	3859438.59	0.15764
490235.95	3859438.59	0.15986	490285.95	3859438.59	0.16197
490335.95	3859438.59	0.16434	490385.95	3859438.59	0.16688

490435.95 3859438.59 0.16964 490485.95
3859438.59 0.17194
490535.95 3859438.59 0.17477 490585.95
3859438.59 0.17758
490635.95 3859438.59 0.17935 490685.95
3859438.59 0.18071
490735.95 3859438.59 0.18346 490785.95
3859438.59 0.18498
490835.95 3859438.59 0.18999 490885.95
3859438.59 0.19544
490085.95 3859488.59 0.15794 490135.95
3859488.59 0.16079
490185.95 3859488.59 0.16386 490235.95
3859488.59 0.16659
490285.95 3859488.59 0.16880 490335.95
3859488.59 0.17209
490385.95 3859488.59 0.17458 490435.95
3859488.59 0.17788
490485.95 3859488.59 0.18095 490535.95
3859488.59 0.18432
490585.95 3859488.59 0.18689 490635.95
3859488.59 0.19013
490685.95 3859488.59 0.19343 490735.95
3859488.59 0.19558
490785.95 3859488.59 0.19855 490835.95
3859488.59 0.20334
490885.95 3859488.59 0.20786 490085.95
3859538.59 0.16359
490135.95 3859538.59 0.16681 490185.95
3859538.59 0.17012
490235.95 3859538.59 0.17376 490285.95
3859538.59 0.17700
490335.95 3859538.59 0.17982 490385.95
3859538.59 0.18306
490435.95 3859538.59 0.18632 490485.95
3859538.59 0.18983
490535.95 3859538.59 0.19376 490585.95
3859538.59 0.19737
490635.95 3859538.59 0.20117 490685.95
3859538.59 0.20489
490735.95 3859538.59 0.20782 490785.95
3859538.59 0.21142
490835.95 3859538.59 0.21603 490885.95
3859538.59 0.21849
490135.95 3859588.59 0.17339 490185.95
3859588.59 0.17629
490235.95 3859588.59 0.18038 490285.95
3859588.59 0.18443
490335.95 3859588.59 0.18768 490385.95
3859588.59 0.19187

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490235.95	3859638.59	0.18712	490285.95	3859638.59	0.19220
490335.95	3859638.59	0.19620	490385.95	3859638.59	0.20004
490435.95	3859638.59	0.20492	490485.95	3859638.59	0.20913
490535.95	3859638.59	0.21370	490585.95	3859638.59	0.21853
490635.95	3859638.59	0.22245	490685.95		

3859638.59 0.22699
490735.95 3859638.59 0.23120 490785.95
3859638.59 0.23590
490835.95 3859638.59 0.24221 490885.95
3859638.59 0.24916
490135.95 3859688.59 0.18558 490185.95
3859688.59 0.18989
490235.95 3859688.59 0.19441 490285.95
3859688.59 0.19760
490335.95 3859688.59 0.20336 490385.95
3859688.59 0.20962
490435.95 3859688.59 0.21365 490485.95
3859688.59 0.21858
490535.95 3859688.59 0.22308 490585.95
3859688.59 0.22879
490635.95 3859688.59 0.23339 490685.95
3859688.59 0.23808
490735.95 3859688.59 0.24327 490785.95
3859688.59 0.24909
490835.95 3859688.59 0.25608 490885.95
3859688.59 0.26670
490085.95 3859738.59 0.18714 490135.95
3859738.59 0.19187
490185.95 3859738.59 0.19702 490235.95
3859738.59 0.20233
490285.95 3859738.59 0.20669 490335.95
3859738.59 0.21276
490385.95 3859738.59 0.21652 490435.95
3859738.59 0.22273
490485.95 3859738.59 0.22759 490535.95
3859738.59 0.23416
490585.95 3859738.59 0.23919 490635.95
3859738.59 0.24462
490685.95 3859738.59 0.25042 490735.95
3859738.59 0.25729
490785.95 3859738.59 0.26548 490835.95
3859738.59 0.27382
490885.95 3859738.59 0.28361 490085.95
3859788.59 0.19342
490135.95 3859788.59 0.19867 490185.95
3859788.59 0.20395
490235.95 3859788.59 0.20953 490285.95
3859788.59 0.21561
490335.95 3859788.59 0.22162 490385.95
3859788.59 0.22805
490435.95 3859788.59 0.23332 490485.95
3859788.59 0.23944
490535.95 3859788.59 0.24410 490585.95
3859788.59 0.25183
490635.95 3859788.59 0.25641 490685.95

3859788.59   0.26334
         490735.95   3859788.59   0.27291   490785.95
3859788.59   0.28180
         490835.95   3859788.59   0.29022   490885.95
3859788.59   0.29698
         490085.95   3859838.59   0.20075   490135.95
3859838.59   0.20609
         490185.95   3859838.59   0.21152   490235.95
3859838.59   0.21704
         490285.95   3859838.59   0.22343   490335.95
3859838.59   0.23039
         490385.95   3859838.59   0.23699   490435.95
3859838.59   0.24342
         490485.95   3859838.59   0.25013   490535.95
3859838.59   0.25636
         490585.95   3859838.59   0.26337   490635.95
3859838.59   0.27096
         490685.95   3859838.59   0.28025   490735.95
3859838.59   0.28779
         490785.95   3859838.59   0.29517   490835.95
3859838.59   0.30566

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
                                  INCLUDING SOURCE(S):   L0000539   , L0000540
, L0000541   , L0000542   , L0000543   ,
                  L0000544   , L0000545   , L0000546   , L0000547   , L0000548
, L0000549   , L0000550   , L0000551   ,
                  L0000552   , L0000553   , L0000554   , L0000555   , L0000556
, L0000557   , L0000558   , L0000559   ,
                  L0000560   , L0000561   , L0000562   , L0000563   , L0000564
, L0000565   , L0000566   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

490885.95 3859838.59 0.31577 490085.95
3859888.59 0.20886
490135.95 3859888.59 0.21437 490185.95
3859888.59 0.21963
490235.95 3859888.59 0.22582 490285.95
3859888.59 0.23262
490335.95 3859888.59 0.23947 490385.95
3859888.59 0.24658
490435.95 3859888.59 0.25415 490485.95
3859888.59 0.26168
490535.95 3859888.59 0.26871 490585.95
3859888.59 0.27540
490635.95 3859888.59 0.28396 490685.95
3859888.59 0.29330
490735.95 3859888.59 0.30354 490785.95
3859888.59 0.31505
490835.95 3859888.59 0.32558 490885.95
3859888.59 0.33484
490135.95 3859938.59 0.22288 490185.95
3859938.59 0.22885
490235.95 3859938.59 0.23516 490285.95
3859938.59 0.24214
490335.95 3859938.59 0.24956 490385.95
3859938.59 0.25707
490435.95 3859938.59 0.26516 490485.95
3859938.59 0.27348
490535.95 3859938.59 0.28111 490585.95
3859938.59 0.28870
490635.95 3859938.59 0.29832 490685.95
3859938.59 0.30621
490735.95 3859938.59 0.31633 490785.95
3859938.59 0.32924
490835.95 3859938.59 0.34255 490885.95
3859938.59 0.35987
490135.95 3859988.59 0.23194 490185.95
3859988.59 0.23808
490235.95 3859988.59 0.24408 490285.95
3859988.59 0.25155
490335.95 3859988.59 0.25929 490385.95
3859988.59 0.26812
490435.95 3859988.59 0.27680 490485.95
3859988.59 0.28556
490535.95 3859988.59 0.29450 490585.95
3859988.59 0.30360
490635.95 3859988.59 0.31285 490685.95
3859988.59 0.32137
490735.95 3859988.59 0.33358 490785.95
3859988.59 0.34711
490835.95 3859988.59 0.36206 490885.95
3859988.59 0.37930

```
         490135.95    3860038.59        0.24134                      490185.95
3860038.59        0.24827
         490235.95    3860038.59        0.25536                      490285.95
3860038.59        0.26321
         490335.95    3860038.59        0.27072                      490385.95
3860038.59        0.27988
         490435.95    3860038.59        0.28908                      490485.95
3860038.59        0.29868
         490535.95    3860038.59        0.30822                      490585.95
3860038.59        0.31862
         490635.95    3860038.59        0.33029                      490685.95
3860038.59        0.34142
         490735.95    3860038.59        0.35171                      490785.95
3860038.59        0.36604
         490835.95    3860038.59        0.38193                      490885.95
3860038.59        0.40020
         490135.95    3860088.59        0.25164                      490185.95
3860088.59        0.25798
         490235.95    3860088.59        0.26616                      490285.95
3860088.59        0.27443
         490335.95    3860088.59        0.28347                      490385.95
3860088.59        0.29268
         490435.95    3860088.59        0.30243                      490485.95
3860088.59        0.31302
         490535.95    3860088.59        0.32338                      490585.95
3860088.59        0.33448
         490635.95    3860088.59        0.34688                      490685.95
3860088.59        0.35955
         490735.95    3860088.59        0.37269                      490785.95
3860088.59        0.38711
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 343
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
                                  INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                  L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490835.95	3860088.59	0.40397	490885.95	3860088.59	0.42269
490135.95	3860138.59	0.26370	490185.95	3860138.59	0.27051
490235.95	3860138.59	0.27913	490285.95	3860138.59	0.28765
490335.95	3860138.59	0.29669	490385.95	3860138.59	0.30657
490435.95	3860138.59	0.31743	490485.95	3860138.59	0.32825
490535.95	3860138.59	0.33921	490585.95	3860138.59	0.35136
490635.95	3860138.59	0.36462	490685.95	3860138.59	0.37897
490735.95	3860138.59	0.39395	490785.95	3860138.59	0.40971
490835.95	3860138.59	0.42766	490885.95	3860138.59	0.44810
490935.95	3860138.59	0.47022	490985.95	3860138.59	0.49319
491035.95	3860138.59	0.51865	490135.95	3860188.59	0.27652
490185.95	3860188.59	0.28376	490235.95	3860188.59	0.29263
490285.95	3860188.59	0.30193	490335.95	3860188.59	0.31175
490385.95	3860188.59	0.32218	490435.95	3860188.59	0.33308
490485.95	3860188.59	0.34485	490535.95	3860188.59	0.35694
490585.95	3860188.59	0.36944	490635.95	3860188.59	0.38443
490685.95	3860188.59	0.39945	490735.95	3860188.59	0.41691
490785.95	3860188.59	0.43467	490835.95	3860188.59	0.45406
490885.95	3860188.59	0.47539	490935.95	3860188.59	0.49816
490985.95	3860188.59	0.52332	491035.95	3860188.59	0.55255
491085.95	3860188.59	0.58289	491135.95		

3860188.59   0.61758
         490135.95   3860238.59   0.29118   490185.95
3860238.59   0.29868
         490235.95   3860238.59   0.30757   490285.95
3860238.59   0.31726
         490335.95   3860238.59   0.32765   490385.95
3860238.59   0.33874
         490435.95   3860238.59   0.35016   490485.95
3860238.59   0.36298
         490535.95   3860238.59   0.37622   490585.95
3860238.59   0.39034
         490635.95   3860238.59   0.40604   490685.95
3860238.59   0.42240
         490735.95   3860238.59   0.44034   490785.95
3860238.59   0.45985
         490835.95   3860238.59   0.48105   490885.95
3860238.59   0.50409
         490935.95   3860238.59   0.52962   490985.95
3860238.59   0.55726
         491035.95   3860238.59   0.58818   491085.95
3860238.59   0.62338
         491135.95   3860238.59   0.66162   490135.95
3860288.59   0.30732
         490185.95   3860288.59   0.31567   490235.95
3860288.59   0.32399
         490285.95   3860288.59   0.33455   490335.95
3860288.59   0.34587
         490385.95   3860288.59   0.35709   490435.95
3860288.59   0.36970
         490485.95   3860288.59   0.38309   490535.95
3860288.59   0.39816
         490585.95   3860288.59   0.41444   490635.95
3860288.59   0.43047
         490685.95   3860288.59   0.44759   490735.95
3860288.59   0.46661
         490785.95   3860288.59   0.48740   490835.95
3860288.59   0.51044
         490885.95   3860288.59   0.53599   490935.95
3860288.59   0.56606

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
                                  INCLUDING SOURCE(S):   L0000539   , L0000540

```
, L0000541    , L0000542    , L0000543    ,
                L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         490985.95    3860288.59        0.59502                       491035.95
3860288.59        0.63074
         491085.95    3860288.59        0.66828                       490135.95
3860338.59        0.32560
         490185.95    3860338.59        0.33441                       490235.95
3860338.59        0.34284
         490285.95    3860338.59        0.35402                       490335.95
3860338.59        0.36600
         490385.95    3860338.59        0.37853                       490435.95
3860338.59        0.39206
         490485.95    3860338.59        0.40686                       490535.95
3860338.59        0.42241
         490585.95    3860338.59        0.43987                       490635.95
3860338.59        0.45748
         490685.95    3860338.59        0.47612                       490735.95
3860338.59        0.49641
         490785.95    3860338.59        0.51821                       490835.95
3860338.59        0.54332
         490885.95    3860338.59        0.57166                       490935.95
3860338.59        0.60446
         490985.95    3860338.59        0.63767                       491035.95
3860338.59        0.67496
         491085.95    3860338.59        0.71671                       490135.95
3860388.59        0.34668
         490185.95    3860388.59        0.35641                       490235.95
3860388.59        0.36591
         490285.95    3860388.59        0.37728                       490335.95
3860388.59        0.38978
         490385.95    3860388.59        0.40362                       490435.95
3860388.59        0.41842
         490485.95    3860388.59        0.43353                       490535.95
3860388.59        0.45096
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         490585.95    3860388.59        0.46883                    490635.95
3860388.59        0.48836
         490685.95    3860388.59        0.50841                    490735.95
3860388.59        0.53098
         490785.95    3860388.59        0.55535                    490835.95
3860388.59        0.58153
         490135.95    3860438.59        0.37209                    490185.95
3860438.59        0.38146
         490235.95    3860438.59        0.39240                    490285.95
3860438.59        0.40472
         490335.95    3860438.59        0.41905                    490385.95
3860438.59        0.43358
         490435.95    3860438.59        0.44976                    490485.95
3860438.59        0.46673
         490535.95    3860438.59        0.48432                    490585.95
3860438.59        0.50389
         490635.95    3860438.59        0.52474                    490685.95
3860438.59        0.54705
         490735.95    3860438.59        0.57057                    490785.95
3860438.59        0.59864
         490835.95    3860438.59        0.62542                    490135.95
3860488.59        0.39960
         490185.95    3860488.59        0.41091                    490235.95
3860488.59        0.42456
         490285.95    3860488.59        0.43767                    490335.95
3860488.59        0.45372
         490385.95    3860488.59        0.46971                    490435.95
3860488.59        0.48458
         490485.95    3860488.59        0.50386                    490535.95
3860488.59        0.52446
         490585.95    3860488.59        0.54578                    490635.95
3860488.59        0.56807
         490685.95    3860488.59        0.59573                    490735.95
3860488.59        0.62199
         490785.95    3860488.59        0.64981                    490135.95
3860538.59        0.43349
         490185.95    3860538.59        0.44346                    490235.95
3860538.59        0.46264
         490285.95    3860538.59        0.47985                    490335.95
3860538.59        0.49569
         490385.95    3860538.59        0.51146                    490435.95
3860538.59        0.52942
         490485.95    3860538.59        0.54833                    490535.95
3860538.59        0.56310
         490585.95    3860538.59        0.59451                    490635.95
3860538.59        0.62095
         490685.95    3860538.59        0.65002                    490735.95
3860538.59        0.67926
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***

INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490785.95	3860538.59	0.70829	490135.95	3860588.59	0.47067
490185.95	3860588.59	0.50237	490235.95	3860588.59	0.51433
490285.95	3860588.59	0.52938	490335.95	3860588.59	0.54826
490385.95	3860588.59	0.56825	490435.95	3860588.59	0.57895
490485.95	3860588.59	0.59348	490535.95	3860588.59	0.62048
490585.95	3860588.59	0.65997	490635.95	3860588.59	0.68930
490685.95	3860588.59	0.71833	490735.95	3860588.59	0.74705
490785.95	3860588.59	0.77959	490135.95	3860638.59	0.51688
490185.95	3860638.59	0.54295	490235.95	3860638.59	0.57297
490285.95	3860638.59	0.59598	490335.95	3860638.59	0.61496
490385.95	3860638.59	0.63643	490435.95	3860638.59	0.66042
490485.95	3860638.59	0.68476	490535.95		

3860638.59 0.70469
490585.95 3860638.59 0.73807 490635.95
3860638.59 0.76822
490685.95 3860638.59 0.79945 490735.95
3860638.59 0.83295
490785.95 3860638.59 0.86628 490135.95
3860688.59 0.59494
490185.95 3860688.59 0.59835 490235.95
3860688.59 0.63898
490285.95 3860688.59 0.68481 490335.95
3860688.59 0.70158
490385.95 3860688.59 0.72378 490435.95
3860688.59 0.75303
490485.95 3860688.59 0.79317 490535.95
3860688.59 0.81919
490585.95 3860688.59 0.84624 490635.95
3860688.59 0.87354
490685.95 3860688.59 0.90139 490735.95
3860688.59 0.93480
490785.95 3860688.59 0.96727 490135.95
3860738.59 0.70922
490185.95 3860738.59 0.74693 490235.95
3860738.59 0.78214
490285.95 3860738.59 0.80712 490335.95
3860738.59 0.83279
490385.95 3860738.59 0.85421 490435.95
3860738.59 0.85881
490485.95 3860738.59 0.89709 490535.95
3860738.59 0.95116
490585.95 3860738.59 0.98364 490635.95
3860738.59 1.01380
490685.95 3860738.59 1.04103 490735.95
3860738.59 1.06924
490785.95 3860738.59 1.09814 490135.95
3860788.59 0.88557
490185.95 3860788.59 0.91493 490235.95
3860788.59 0.94486
490285.95 3860788.59 0.97404 490335.95
3860788.59 1.00544
490385.95 3860788.59 1.02872 490435.95
3860788.59 1.05776
490485.95 3860788.59 1.07944 490535.95
3860788.59 1.11662
490585.95 3860788.59 1.16257 490635.95
3860788.59 1.19899
490685.95 3860788.59 1.23166 490735.95
3860788.59 1.25951
490785.95 3860788.59 1.29964 489985.95
3860838.59 0.98405
490035.95 3860838.59 1.02016 490085.95

3860838.59 1.05460
  490135.95 3860838.59 1.08807 490185.95
3860838.59 1.12630
  490235.95 3860838.59 1.16331 490285.95
3860838.59 1.19701
  490335.95 3860838.59 1.23366 490385.95
3860838.59 1.26786

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490435.95	3860838.59	1.29732	490485.95	3860838.59	1.32726
490535.95	3860838.59	1.36232	490585.95	3860838.59	1.40341
490635.95	3860838.59	1.44042	490685.95	3860838.59	1.47492
490735.95	3860838.59	1.50890	490785.95	3860838.59	1.54555
490835.95	3860838.59	1.58546	489835.95	3860888.59	1.10153
489885.95	3860888.59	1.15244	489935.95	3860888.59	1.20257
489985.95	3860888.59	1.25086	490035.95	3860888.59	1.29776

490085.95 3860888.59 1.34153 490135.95
3860888.59 1.38637
490185.95 3860888.59 1.43210 490235.95
3860888.59 1.47569
490285.95 3860888.59 1.51770 490335.95
3860888.59 1.55950
490385.95 3860888.59 1.59693 490435.95
3860888.59 1.63154
490485.95 3860888.59 1.66826 490535.95
3860888.59 1.70593
490585.95 3860888.59 1.74410 490635.95
3860888.59 1.78252
490685.95 3860888.59 1.81929 490735.95
3860888.59 1.85583
490785.95 3860888.59 1.89399 490835.95
3860888.59 1.93308
490885.95 3860888.59 1.97423 490935.95
3860888.59 2.02199
489835.95 3860938.59 1.47396 489885.95
3860938.59 1.54360
489935.95 3860938.59 1.60940 489985.95
3860938.59 1.67208
490035.95 3860938.59 1.73213 490085.95
3860938.59 1.78962
490135.95 3860938.59 1.84783 490185.95
3860938.59 1.89959
490235.95 3860938.59 1.94965 490285.95
3860938.59 1.99688
490335.95 3860938.59 2.04565 490385.95
3860938.59 2.08760
490435.95 3860938.59 2.12778 490485.95
3860938.59 2.16958
490535.95 3860938.59 2.20941 490585.95
3860938.59 2.25141
490635.95 3860938.59 2.29229 490685.95
3860938.59 2.33114
490735.95 3860938.59 2.36995 490785.95
3860938.59 2.40859
490835.95 3860938.59 2.44687 490885.95
3860938.59 2.48623
490935.95 3860938.59 2.53337 489835.95
3860988.59 2.12308
489885.95 3860988.59 2.21486 489935.95
3860988.59 2.30103
489985.95 3860988.59 2.38148 490035.95
3860988.59 2.45782
490085.95 3860988.59 2.52802 490135.95
3860988.59 2.59664
490185.95 3860988.59 2.65698 490235.95
3860988.59 2.72220

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         490285.95    3860988.59        2.78106                      490335.95
3860988.59        2.83514
         490385.95    3860988.59        2.88587                      490435.95
3860988.59        2.92788
         490485.95    3860988.59        2.97591                      490535.95
3860988.59        3.02530
         490585.95    3860988.59        3.07138                      490635.95
3860988.59        3.11414
         490685.95    3860988.59        3.15808                      490735.95
3860988.59        3.19872
         490785.95    3860988.59        3.23917                      490835.95
3860988.59        3.28116
         490885.95    3860988.59        3.32270                      490935.95
3860988.59        3.36896
         489835.95    3861038.59        3.40018                      489885.95
3861038.59        3.51815
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***       07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***       01:16:45

                                 PAGE 347
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
                                 INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                  L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         489935.95    3861038.59        3.63218                      489985.95
3861038.59        3.73633
         490035.95    3861038.59        3.83201                      490085.95
3861038.59        3.92191
         490135.95    3861038.59        4.00661                      490185.95
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```
3861038.59        4.08727
         490235.95    3861038.59        4.16117                    490285.95
3861038.59        4.23677
         490335.95    3861038.59        4.30419                    490385.95
3861038.59        4.36516
         490435.95    3861038.59        4.41664                    490485.95
3861038.59        4.47456
         490535.95    3861038.59        4.53563                    490585.95
3861038.59        4.59479
         490635.95    3861038.59        4.64836                    490685.95
3861038.59        4.69482
         490735.95    3861038.59        4.74237                    490785.95
3861038.59        4.79397
         490835.95    3861038.59        4.84695                    490885.95
3861038.59        4.89920
         490935.95    3861038.59        4.95150                    489835.95
3861088.59        6.61333
         489885.95    3861088.59        6.79004                    489935.95
3861088.59        6.94874
         489985.95    3861088.59        7.09838                    490035.95
3861088.59        7.23924
         490085.95    3861088.59        7.37064                    490135.95
3861088.59        7.49070
         490185.95    3861088.59        7.59311                    490235.95
3861088.59        7.73863
         490285.95    3861088.59        7.85920                    490335.95
3861088.59        7.94907
         490385.95    3861088.59        8.07587                    490435.95
3861088.59        8.18148
         490485.95    3861088.59        8.28396                    490535.95
3861088.59        8.37530
         490585.95    3861088.59        8.47909                    490635.95
3861088.59        8.53486
         490685.95    3861088.59        8.61466                    490735.95
3861088.59        8.72422
         490785.95    3861088.59        8.83171                    490835.95
3861088.59        8.94103
         490885.95    3861088.59        9.05203                    490935.95
3861088.59        9.16349
         489020.79    3862564.85        0.14196                    489043.15
3862350.21        0.17050
         489072.96    3862287.60        0.18259                    488980.55
3862078.92        0.21485
         489037.19    3862822.72        0.12021                    489120.66
3863016.49        0.10977
         489037.19    3863350.37        0.09103

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***

INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	489237.26	489256.56	489275.86	489295.16	489314.46	489333.76	489353.06	489372.36	489391.66
3859957.07	0.06944	0.06770	0.06663	0.06534	0.06376	0.06206	0.06055	0.05885	0.05699
3859937.65	0.06876	0.06696	0.06578	0.06453	0.06298	0.06158	0.06024	0.05870	0.05701
3859918.23	0.06760	0.06597	0.06482	0.06334	0.06209	0.06086	0.05954	0.05790	0.05623
3859898.81	0.06672	0.06525	0.06414	0.06282	0.06160	0.06039	0.05910	0.05762	0.05611
3859879.39	0.06597	0.06467	0.06383	0.06267	0.06136	0.06017	0.05878	0.05746	0.05609
3859859.97	0.06512	0.06385	0.06292	0.06179	0.06051	0.05935	0.05811	0.05692	0.05558
3859840.55	0.06418	0.06295	0.06192	0.06082	0.05968	0.05855	0.05734	0.05629	0.05508
3859821.13	0.06315	0.06195	0.06072	0.05965	0.05865	0.05754	0.05647	0.05544	0.05447
3859801.71	0.06204	0.06087	0.05989	0.05873	0.05787	0.05701	0.05573	0.05483	0.05399
3859782.29	0.06107	0.05992	0.05908	0.05773	0.05699	0.05626	0.05501	0.05413	0.05330
3859762.87	0.06023	0.05911	0.05818	0.05697	0.05604	0.05511	0.05420	0.05292	0.05210

```
 3859957.07 |       0.05526      0.05385      0.05221      0.05119      0.04976
0.04897      0.04903      0.04921      0.04912
 3859937.65 |       0.05544      0.05417      0.05282      0.05207      0.05149
0.05120      0.05160      0.05180      0.05173
 3859918.23 |       0.05455      0.05289      0.05193      0.05156      0.05125
0.05110      0.05148      0.05154      0.05117
 3859898.81 |       0.05445      0.05294      0.05159      0.05081      0.05060
0.05082      0.05117      0.05096      0.05106
 3859879.39 |       0.05482      0.05357      0.05150      0.05008      0.04997
0.05079      0.05099      0.05052      0.05075
 3859859.97 |       0.05445      0.05344      0.05212      0.05096      0.05058
0.05086      0.05092      0.05059      0.05094
 3859840.55 |       0.05396      0.05307      0.05210      0.05130      0.05067
0.05044      0.05036      0.05038      0.05060
 3859821.13 |       0.05348      0.05237      0.05140      0.05081      0.05028
0.04968      0.04957      0.04970      0.04990
 3859801.71 |       0.05311      0.05212      0.05115      0.05033      0.04978
0.04928      0.04904      0.04903      0.04934
 3859782.29 |       0.05254      0.05177      0.05091      0.04997      0.04919
0.04878      0.04853      0.04839      0.04868
 3859762.87 |       0.05146      0.05079      0.05045      0.04972      0.04862
0.04766      0.04791      0.04787      0.04803
 3859743.45 |       0.05061      0.05005      0.04980      0.04906      0.04806
0.04699      0.04742      0.04725      0.04740
 3859724.03 |       0.04999      0.04933      0.04907      0.04833      0.04742
0.04644      0.04684      0.04666      0.04668
 3859704.61 |       0.04958      0.04883      0.04846      0.04781      0.04679
0.04592      0.04628      0.04608      0.04608
 3859685.19 |       0.04889      0.04824      0.04776      0.04711      0.04619
0.04540      0.04573      0.04551      0.04550
 3859665.77 |       0.04803      0.04738      0.04700      0.04643      0.04560
0.04490      0.04520      0.04487      0.04493
 3859646.35 |       0.04728      0.04664      0.04635      0.04577      0.04494
0.04433      0.04469      0.04433      0.04428
 3859626.93 |       0.04664      0.04592      0.04571      0.04514      0.04448
0.04404      0.04409      0.04391      0.04384
 3859607.51 |       0.04611      0.04548      0.04509      0.04469      0.04421
0.04385      0.04370      0.04350      0.04350
 3859588.09 |       0.04541      0.04479      0.04423      0.04374      0.04334
0.04304      0.04279      0.04265      0.04281
 3859568.67 |       0.04482      0.04404      0.04339      0.04281      0.04240
0.04218      0.04182      0.04175      0.04197
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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                                    PAGE 350
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***

INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489584.66	489603.96	489623.26
3859957.07	0.04855	0.04704	0.04522
3859937.65	0.05123	0.05040	0.04786
3859918.23	0.05098	0.05078	0.04907
3859898.81	0.05131	0.05082	0.05028
3859879.39	0.05127	0.05100	0.05084
3859859.97	0.05132	0.05083	0.05095
3859840.55	0.05098	0.05064	0.05102
3859821.13	0.05016	0.05055	0.05082
3859801.71	0.04970	0.04997	0.05048
3859782.29	0.04914	0.04929	0.05002
3859762.87	0.04836	0.04851	0.04967
3859743.45	0.04761	0.04786	0.04910
3859724.03	0.04698	0.04733	0.04844
3859704.61	0.04637	0.04671	0.04769
3859685.19	0.04577	0.04599	0.04686
3859665.77	0.04508	0.04530	0.04604
3859646.35	0.04442	0.04462	0.04525
3859626.93	0.04396	0.04406	0.04449
3859607.51	0.04360	0.04351	0.04374
3859588.09	0.04289	0.04288	0.04301
3859568.67	0.04221	0.04227	0.04221

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489260.34	489284.99	489309.64	489334.29	489358.94	489383.59	489408.24	489432.89	489457.54
3859173.42	0.03861	0.03771	0.03739	0.03685	0.03606	0.03544	0.03479	0.03412	0.03341
3859151.85	0.03812	0.03763	0.03706	0.03640	0.03562	0.03501	0.03438	0.03372	0.03302
3859130.28	0.03777	0.03735	0.03667	0.03596	0.03519	0.03453	0.03397	0.03326	0.03264
3859108.71	0.03743	0.03696	0.03623	0.03547	0.03471	0.03412	0.03356	0.03281	0.03220
3859087.14	0.03703	0.03645	0.03579	0.03504	0.03430	0.03378	0.03311	0.03243	0.03177
3859065.57	0.03658	0.03601	0.03536	0.03457	0.03390	0.03332	0.03261	0.03205	0.03147
3859044.00	0.03608	0.03552	0.03488	0.03416	0.03344	0.03287	0.03217	0.03169	0.03117
3859022.43	0.03565	0.03509	0.03447	0.03376	0.03305	0.03249	0.03192	0.03138	0.03082
3859000.86	0.03511	0.03462	0.03407	0.03337	0.03267	0.03207	0.03150	0.03103	0.03048
3858979.29	0.03463	0.03416	0.03368	0.03299	0.03230	0.03164	0.03114	0.03068	0.03020
3858957.72	0.03429	0.03382	0.03324	0.03267	0.03199	0.03135	0.03080	0.03034	0.02992
3858936.15	0.03389	0.03343	0.03286	0.03225	0.03158	0.03094	0.03040	0.02990	0.02948
3858914.58	0.03350	0.03300	0.03243	0.03183	0.03123				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	489482.19	489506.84	489531.49	489556.14	489580.79	489605.44	489630.09	489654.74	489679.39	
3859173.42	0.03273	0.03213	0.03156	0.03131	0.03091	0.03075	0.03071	0.03079	0.03105	

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 3859151.85 |       0.03241      0.03175      0.03119      0.03082      0.03052
0.03047      0.03035      0.03041      0.03059
 3859130.28 |       0.03204      0.03139      0.03090      0.03045      0.03021
0.03008      0.02994      0.02998      0.03007
 3859108.71 |       0.03167      0.03103      0.03054      0.03016      0.02985
0.02958      0.02954      0.02944      0.02957
 3859087.14 |       0.03131      0.03086      0.03026      0.02987      0.02943
0.02915      0.02909      0.02904      0.02915
 3859065.57 |       0.03102      0.03052      0.02998      0.02947      0.02909
0.02873      0.02866      0.02858      0.02868
 3859044.00 |       0.03067      0.03012      0.02970      0.02914      0.02875
0.02839      0.02830      0.02820      0.02822
 3859022.43 |       0.03027      0.02979      0.02932      0.02893      0.02843
0.02805      0.02789      0.02778      0.02777
 3859000.86 |       0.03000      0.02941      0.02900      0.02861      0.02811
0.02773      0.02755      0.02742      0.02734
 3858979.29 |       0.02967      0.02909      0.02864      0.02825      0.02785
0.02747      0.02722      0.02702      0.02692
 3858957.72 |       0.02935      0.02884      0.02833      0.02784      0.02760
0.02721      0.02684      0.02668      0.02657
 3858936.15 |       0.02898      0.02853      0.02803      0.02755      0.02720
0.02685      0.02653      0.02636      0.02618
 3858914.58 |       0.02867      0.02828      0.02779      0.02726      0.02681
0.02651      0.02623      0.02599      0.02584
 3858893.01 |       0.02836      0.02803      0.02750      0.02703      0.02653
0.02612      0.02594      0.02568      0.02552
 3858871.44 |       0.02801      0.02759      0.02712      0.02670      0.02625
0.02579      0.02560      0.02533      0.02521
 3858849.87 |       0.02767      0.02725      0.02684      0.02643      0.02598
0.02557      0.02532      0.02499      0.02486
 3858828.30 |       0.02738      0.02697      0.02652      0.02616      0.02577
0.02531      0.02505      0.02471      0.02456
 3858806.73 |       0.02709      0.02665      0.02620      0.02585      0.02551
0.02505      0.02469      0.02439      0.02428
 3858785.16 |       0.02672      0.02633      0.02589      0.02550      0.02516
0.02475      0.02443      0.02403      0.02395
 3858763.59 |       0.02639      0.02602      0.02559      0.02520      0.02487
0.02446      0.02418      0.02378      0.02363
 3858742.02 |       0.02613      0.02571      0.02538      0.02501      0.02458
0.02408      0.02398      0.02362      0.02342
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 353
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK3   ***
```

INCLUDING SOURCE(S): L0000901 , L0000902
, L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910
, L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918
, L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926
, L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)		
	489704.04	489728.69	489753.34
3859173.42	0.03133	0.03167	0.03198
3859151.85	0.03079	0.03111	0.03142
3859130.28	0.03026	0.03057	0.03086
3859108.71	0.02980	0.02997	0.03026
3859087.14	0.02930	0.02952	0.02986
3859065.57	0.02887	0.02908	0.02940
3859044.00	0.02839	0.02858	0.02890
3859022.43	0.02793	0.02811	0.02841
3859000.86	0.02742	0.02758	0.02793
3858979.29	0.02698	0.02713	0.02746
3858957.72	0.02667	0.02680	0.02695
3858936.15	0.02625	0.02637	0.02650
3858914.58	0.02585	0.02595	0.02607
3858893.01	0.02551	0.02554	0.02570
3858871.44	0.02519	0.02515	0.02529
3858849.87	0.02482	0.02481	0.02494
3858828.30	0.02451	0.02449	0.02455
3858806.73	0.02421	0.02417	0.02428
3858785.16	0.02382	0.02382	0.02395
3858763.59	0.02349	0.02347	0.02359
3858742.02	0.02331	0.02314	0.02324

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902
, L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910
, L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918
, L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926
, L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)					
	488584.66	488614.48	488644.30	488674.12	488703.94	488733.76
488763.58	488793.40	488823.22				
3858904.98	0.04036	0.04078	0.04107	0.04141	0.04160	0.04164
0.04129	0.04110	0.04041				
3858880.05	0.03991	0.04028	0.04061	0.04099	0.04102	0.04092
0.04086	0.04047	0.03997				
3858855.12	0.03942	0.03988	0.04012	0.04039	0.04054	0.04037
0.04063	0.04001	0.03932				
3858830.19	0.03899	0.03944	0.03953	0.03955	0.04017	0.04023
0.04005	0.03956	0.03879				
3858805.26	0.03825	0.03831	0.03916	0.03945	0.03981	0.03974
0.03948	0.03896	0.03822				
3858780.33	0.03807	0.03851	0.03883	0.03906	0.03921	0.03921
0.03892	0.03836	0.03760				
3858755.40	0.03776	0.03820	0.03846	0.03869	0.03881	0.03869
0.03841	0.03783	0.03700				
3858730.47	0.03737	0.03776	0.03806	0.03836	0.03846	0.03831
0.03796	0.03735	0.03645				
3858705.54	0.03698	0.03741	0.03766	0.03794	0.03806	0.03793
0.03751	0.03683	0.03596				
3858680.61	0.03656	0.03703	0.03714	0.03740	0.03750	0.03743
0.03706	0.03636	0.03548				
3858655.68	0.03616	0.03666	0.03693	0.03709	0.03712	0.03693
0.03653	0.03580	0.03496				
3858630.75	0.03571	0.03621	0.03651	0.03669	0.03669	0.03647
0.03605	0.03530	0.03445				
3858605.82	0.03528	0.03577	0.03610	0.03630	0.03628	0.03603
0.03558	0.03476	0.03389				
3858580.89	0.03490	0.03538	0.03569	0.03591	0.03582	0.03554
0.03507	0.03427	0.03330				

 3858555.96 | 0.03469   0.03508   0.03533   0.03549   0.03541
0.03506   0.03447   0.03370   0.03282
 3858531.03 | 0.03424   0.03466   0.03498   0.03511   0.03501
0.03467   0.03397   0.03327   0.03239
 3858506.10 | 0.03392   0.03433   0.03455   0.03466   0.03452
0.03416   0.03357   0.03276   0.03187
 3858481.17 | 0.03357   0.03396   0.03413   0.03425   0.03409
0.03370   0.03308   0.03226   0.03136
 3858456.24 | 0.03322   0.03356   0.03379   0.03388   0.03370
0.03324   0.03260   0.03177   0.03086
 3858431.31 | 0.03288   0.03321   0.03345   0.03352   0.03331
0.03286   0.03216   0.03123   0.03038
 3858406.38 | 0.03262   0.03289   0.03319   0.03320   0.03292
0.03241   0.03173   0.03080   0.02990

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3   ***
                                 INCLUDING SOURCE(S):   L0000901   , L0000902 , L0000903   , L0000904   , L0000905   ,
                 L0000906   , L0000907   , L0000908   , L0000909   , L0000910 , L0000911   , L0000912   , L0000913   ,
                 L0000914   , L0000915   , L0000916   , L0000917   , L0000918 , L0000919   , L0000920   , L0000921   ,
                 L0000922   , L0000923   , L0000924   , L0000925   , L0000926 , L0000927   , L0000928   , . . .   ,

                                  *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

    Y-COORD | X-COORD (METERS)
    (METERS) | 488853.04   488882.86   488912.68   488942.50   488972.32 489002.14   489031.96   489061.78   489091.60
 -

  3858904.98 | 0.03940   0.03852   0.03737   0.03648   0.03544
 0.03478   0.03445   0.03435   0.03438
  3858880.05 | 0.03890   0.03785   0.03671   0.03585   0.03495
 0.03427   0.03397   0.03388   0.03392
  3858855.12 | 0.03835   0.03724   0.03606   0.03523   0.03437

```
 0.03372      0.03356      0.03348      0.03347
  3858830.19 |       0.03781      0.03665      0.03543      0.03456      0.03362
 0.03329      0.03310      0.03304      0.03293
  3858805.26 |       0.03723      0.03613      0.03498      0.03397      0.03283
 0.03277      0.03260      0.03250      0.03261
  3858780.33 |       0.03649      0.03534      0.03421      0.03334      0.03253
 0.03214      0.03205      0.03202      0.03214
  3858755.40 |       0.03593      0.03473      0.03368      0.03284      0.03217
 0.03170      0.03157      0.03156      0.03163
  3858730.47 |       0.03549      0.03430      0.03327      0.03240      0.03176
 0.03132      0.03121      0.03110      0.03118
  3858705.54 |       0.03500      0.03388      0.03282      0.03193      0.03132
 0.03101      0.03086      0.03081      0.03089
  3858680.61 |       0.03436      0.03320      0.03227      0.03146      0.03088
 0.03054      0.03046      0.03053      0.03065
  3858655.68 |       0.03389      0.03275      0.03179      0.03100      0.03056
 0.03019      0.03008      0.03005      0.03023
  3858630.75 |       0.03338      0.03225      0.03137      0.03056      0.03014
 0.02980      0.02970      0.02968      0.02982
  3858605.82 |       0.03283      0.03177      0.03096      0.03018      0.02973
 0.02941      0.02933      0.02937      0.02941
  3858580.89 |       0.03229      0.03134      0.03056      0.02981      0.02929
 0.02904      0.02897      0.02902      0.02906
  3858555.96 |       0.03186      0.03088      0.03007      0.02940      0.02890
 0.02862      0.02857      0.02862      0.02872
  3858531.03 |       0.03144      0.03042      0.02959      0.02894      0.02852
 0.02831      0.02823      0.02828      0.02838
  3858506.10 |       0.03093      0.02993      0.02912      0.02846      0.02806
 0.02792      0.02789      0.02791      0.02805
  3858481.17 |       0.03033      0.02940      0.02866      0.02803      0.02770
 0.02753      0.02751      0.02758      0.02768
  3858456.24 |       0.02980      0.02889      0.02822      0.02766      0.02735
 0.02720      0.02715      0.02727      0.02736
  3858431.31 |       0.02946      0.02857      0.02778      0.02729      0.02697
 0.02683      0.02683      0.02691      0.02701
  3858406.38 |       0.02903      0.02812      0.02736      0.02689      0.02663
 0.02651      0.02652      0.02657      0.02667
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 356
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK3   ***
                                   INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                L0000906    , L0000907    , L0000908    , L0000909    , L0000910
```

, L0000911   , L0000912   , L0000913   ,
                L0000914   , L0000915   , L0000916   , L0000917   , L0000918
, L0000919   , L0000920   , L0000921   ,
                L0000922   , L0000923   , L0000924   , L0000925   , L0000926
, L0000927   , L0000928   , . . .   ,

                                *** NETWORK ID: UCART3   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489121.42   489151.24   489181.06
 -
- -

  3858904.98 | 0.03444   0.03450   0.03429
  3858880.05 | 0.03398   0.03394   0.03384
  3858855.12 | 0.03348   0.03344   0.03335
  3858830.19 | 0.03294   0.03306   0.03286
  3858805.26 | 0.03262   0.03253   0.03239
  3858780.33 | 0.03221   0.03217   0.03198
  3858755.40 | 0.03175   0.03171   0.03162
  3858730.47 | 0.03130   0.03127   0.03118
  3858705.54 | 0.03087   0.03083   0.03074
  3858680.61 | 0.03058   0.03059   0.03036
  3858655.68 | 0.03030   0.03027   0.03004
  3858630.75 | 0.02998   0.02999   0.02977
  3858605.82 | 0.02958   0.02959   0.02941
  3858580.89 | 0.02913   0.02910   0.02901
  3858555.96 | 0.02874   0.02875   0.02872
  3858531.03 | 0.02841   0.02841   0.02833
  3858506.10 | 0.02812   0.02808   0.02800
  3858481.17 | 0.02775   0.02776   0.02768
  3858456.24 | 0.02739   0.02744   0.02732
  3858431.31 | 0.02708   0.02704   0.02696
  3858406.38 | 0.02669   0.02674   0.02666

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK3   ***
                                 INCLUDING SOURCE(S):   L0000901   , L0000902
, L0000903   , L0000904   , L0000905   ,

```
                 L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                 L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
                 L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     489386.10    489460.62    489535.14    489609.66    489684.18
489758.70    489833.22    489907.74    489982.26
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3861675.76 |       7.00134      5.59853      4.57786      3.88925      3.37555
 2.98609      2.67919      2.42666      2.21270
  3861650.62 |       7.04783      5.58082      4.58534      3.88962      3.37202
 2.97522      2.66583      2.41509      2.19214
  3861625.48 |       7.04675      5.54261      4.56567      3.87117      3.35713
 2.96468      2.65083      2.40126      2.17798
  3861600.34 |       7.01757      5.55821      4.54087      3.85024      3.34136
 2.94840      2.63482      2.37821      2.16555
  3861575.20 |       7.18217      5.52552      4.50587      3.82648      3.31630
 2.92309      2.60926      2.34998      2.14195
  3861550.06 |       7.17473      5.50036      4.48936      3.79730      3.28366
 2.88983      2.57745      2.32218      2.11301
  3861524.92 |       7.14493      5.48344      4.46165      3.76129      3.24576
 2.85362      2.54243      2.28929      2.07932
  3861499.78 |       7.10991      5.45025      4.42328      3.72597      3.21331
 2.81303      2.50472      2.25322      2.04651
  3861474.64 |       7.06922      5.40604      4.37943      3.68715      3.17610
 2.76940      2.46295      2.21295      2.00799
  3861449.50 |       6.99671      5.35453      4.32892      3.63589      3.11824
 2.72470      2.41650      2.16811      1.96554
  3861424.36 |       6.93738      5.30025      4.26575      3.57217      3.06166
 2.66708      2.36450      2.12032      1.91790
  3861399.22 |       6.86434      5.22158      4.18547      3.50261      2.99428
 2.60353      2.30545      2.06397      1.86572
  3861374.08 |       6.75828      5.11885      4.09703      3.41766      2.91231
 2.52942      2.23732      2.00012      1.80893
  3861348.94 |       6.62733      4.99962      3.98594      3.31036      2.81414
 2.44373      2.16013      1.93048      1.74750
  3861323.80 |       6.46302      4.86894      3.85525      3.18213      2.70315
 2.34719      2.07181      1.85533      1.68145
  3861298.66 |       6.26323      4.68077      3.68865      3.03209      2.57887
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	490056.78	490131.30	490205.82	490280.34	490354.86	490429.38	490503.90	490578.42	490652.94
3861675.76	2.03452	1.87884	1.73291	1.61125	1.51102	1.42004	1.33941	1.26539	1.20408
3861650.62	2.01400	1.85957	1.72167	1.60770	1.49451	1.40416	1.32340	1.25724	1.19810
3861625.48	1.99789	1.84594	1.71269	1.60057	1.48593	1.39613	1.31400	1.24935	1.18761
3861600.34	1.98479	1.83160	1.69911	1.58391	1.48127	1.39090	1.30903	1.23608	1.17056

```
  3861575.20 |       1.95878      1.80495      1.67654      1.56112      1.45850
 1.36927      1.28940      1.21865      1.15283
  3861550.06 |       1.93094      1.78242      1.65155      1.53818      1.43563
 1.34965      1.26851      1.19857      1.13438
  3861524.92 |       1.90327      1.75362      1.62359      1.51232      1.41351
 1.32548      1.24663      1.17760      1.11516
  3861499.78 |       1.87084      1.72139      1.59492      1.48428      1.38763
 1.30019      1.22308      1.15545      1.09486
  3861474.64 |       1.83358      1.68750      1.56189      1.45294      1.35898
 1.27468      1.19876      1.13213      1.07302
  3861449.50 |       1.79315      1.65058      1.52630      1.42176      1.32778
 1.24610      1.17353      1.10846      1.05045
  3861424.36 |       1.74982      1.61107      1.48966      1.38735      1.29524
 1.21639      1.14523      1.08314      1.02670
  3861399.22 |       1.70224      1.56731      1.45106      1.35007      1.26112
 1.18472      1.11617      1.05629      1.00183
  3861374.08 |       1.65144      1.52071      1.40856      1.31044      1.22529
 1.15188      1.08649      1.02895      0.97661
  3861348.94 |       1.59662      1.47067      1.36360      1.26935      1.18814
 1.11772      1.05571      1.00044      0.95059
  3861323.80 |       1.53765      1.41761      1.31530      1.22691      1.15030
 1.08309      1.02389      0.97108      0.92382
  3861298.66 |       1.47511      1.36284      1.26530      1.18275      1.11027
 1.04749      0.99150      0.94219      0.89613
  3861273.52 |       1.40875      1.30394      1.21429      1.13699      1.06920
 1.01101      0.95794      0.91108      0.86836
  3861248.38 |       1.34005      1.24307      1.16123      1.08959      1.02714
 0.97283      0.92366      0.88055      0.83972
  3861223.24 |       1.26899      1.18126      1.10675      1.04190      0.98430
 0.93399      0.88885      0.84848      0.81064
  3861198.10 |       1.19572      1.11789      1.05111      0.99254      0.94037
 0.89446      0.85305      0.81566      0.78111
  3861172.96 |       1.12108      1.05288      0.99420      0.94204      0.89555
 0.85398      0.81644      0.78242      0.75100
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***       07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***       01:16:45

                                 PAGE 359
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK3   ***
                                 INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                  L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                  L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
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L0000922 , L0000923 , L0000924 , L0000925 , L0000926
, L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)		
	490727.46	490801.98	490876.50
3861675.76	1.15375	1.09520	1.04647
3861650.62	1.14311	1.08621	1.03721
3861625.48	1.12713	1.07263	1.02311
3861600.34	1.11086	1.05793	1.00804
3861575.20	1.09459	1.04213	0.99277
3861550.06	1.07710	1.02552	0.97679
3861524.92	1.05943	1.00786	0.96036
3861499.78	1.04006	0.99029	0.94346
3861474.64	1.01936	0.97165	0.92609
3861449.50	0.99850	0.95074	0.90783
3861424.36	0.97596	0.93034	0.88778
3861399.22	0.95375	0.90889	0.86839
3861374.08	0.93037	0.88723	0.84825
3861348.94	0.90574	0.86516	0.82776
3861323.80	0.88086	0.84215	0.80691
3861298.66	0.85682	0.81991	0.78539
3861273.52	0.83063	0.79606	0.76328
3861248.38	0.80403	0.77180	0.74098
3861223.24	0.77731	0.74707	0.71825
3861198.10	0.75003	0.72178	0.69489
3861172.96	0.72229	0.69606	0.67136

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902
, L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910
, L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918

, L0000919   , L0000920   , L0000921   ,
                L0000922   , L0000923   , L0000924   , L0000925   , L0000926
, L0000927   , L0000928   , . . .   ,

                                *** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

    Y-COORD | X-COORD (METERS)
    (METERS) | 491611.20   491641.99   491672.78   491703.57   491734.36
491765.15   491795.94   491826.73   491857.52
 -
- -

  3861693.54 | 0.71834   0.70871   0.69959   0.68930   0.67969
 0.67029   0.66157   0.65321   0.64501
  3861664.09 | 0.70829   0.69868   0.68881   0.67966   0.67055
 0.66165   0.65295   0.64429   0.63566
  3861634.64 | 0.69817   0.68860   0.67909   0.67013   0.66122
 0.65204   0.64414   0.63552   0.62691
  3861605.19 | 0.68734   0.67830   0.66901   0.66009   0.65169
 0.64288   0.63471   0.62643   0.61833
  3861575.74 | 0.67648   0.66750   0.65843   0.64988   0.64123
 0.63293   0.62497   0.61689   0.60899
  3861546.29 | 0.66511   0.65652   0.64753   0.63905   0.63093
 0.62284   0.61523   0.60736   0.59994
  3861516.84 | 0.65358   0.64507   0.63662   0.62823   0.62018
 0.61218   0.60450   0.59714   0.58980
  3861487.39 | 0.64158   0.63332   0.62526   0.61712   0.60917
 0.60140   0.59395   0.58666   0.57954
  3861457.94 | 0.62929   0.62115   0.61320   0.60545   0.59789
 0.59036   0.58314   0.57622   0.56932
  3861428.49 | 0.61700   0.60884   0.60130   0.59381   0.58649
 0.57934   0.57236   0.56553   0.55872
  3861399.04 | 0.60429   0.59642   0.58914   0.58177   0.57484
 0.56794   0.56107   0.55435   0.54791
  3861369.59 | 0.59104   0.58360   0.57659   0.56950   0.56270
 0.55618   0.54956   0.54321   0.53701
  3861340.14 | 0.57755   0.57053   0.56368   0.55699   0.55046
 0.54408   0.53784   0.53198   0.52577
  3861310.69 | 0.56396   0.55711   0.55055   0.54414   0.53789
 0.53189   0.52591   0.52019   0.51434
  3861281.24 | 0.55026   0.54372   0.53733   0.53134   0.52536
 0.51951   0.51380   0.50821   0.50285
  3861251.79 | 0.53634   0.53012   0.52404   0.51833   0.51252
 0.50695   0.50150   0.49628   0.49106
  3861222.34 | 0.52223   0.51633   0.51056   0.50503   0.49962
 0.49422   0.48904   0.48409   0.47923

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK3   ***
                                 INCLUDING SOURCE(S):   L0000901   , L0000902
, L0000903   , L0000904   , L0000905   ,
                   L0000906   , L0000907   , L0000908   , L0000909   , L0000910
, L0000911   , L0000912   , L0000913   ,
                   L0000914   , L0000915   , L0000916   , L0000917   , L0000918
, L0000919   , L0000920   , L0000921   ,
                   L0000922   , L0000923   , L0000924   , L0000925   , L0000926
, L0000927   , L0000928   , . . .   ,

                                  *** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 491888.31   491919.10   491949.89   491980.68   492011.47
492042.26   492073.05   492103.84   492134.63
 -
- -

 3861693.54 | 0.63639   0.62667   0.61888   0.61110   0.60347
0.59600   0.58805   0.58073   0.57371
 3861664.09 | 0.62767   0.61939   0.61160   0.60440   0.59706
0.58973   0.58075   0.57358   0.56685
 3861634.64 | 0.61880   0.61116   0.60383   0.59649   0.58945
0.58240   0.57496   0.56679   0.55960
 3861605.19 | 0.61055   0.60293   0.59561   0.58831   0.58116
0.57441   0.56727   0.56041   0.55313
 3861575.74 | 0.60169   0.59412   0.58685   0.58000   0.57288
0.56656   0.56033   0.55277   0.54658
 3861546.29 | 0.59255   0.58532   0.57823   0.57129   0.56499

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***

INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	492165.42	492196.21	492227.00
3861693.54	0.56683	0.55993	0.55347
3861664.09	0.56011	0.55349	0.54715
3861634.64	0.55239	0.54682	0.54032
3861605.19	0.54567	0.53963	0.53328
3861575.74	0.53910	0.53237	0.52631
3861546.29	0.53210	0.52594	0.51964
3861516.84	0.52447	0.51836	0.51259
3861487.39	0.51615	0.51045	0.50484
3861457.94	0.50776	0.50222	0.49690
3861428.49	0.49929	0.49393	0.48867
3861399.04	0.49063	0.48545	0.48047
3861369.59	0.48168	0.47679	0.47198
3861340.14	0.47255	0.46785	0.46332
3861310.69	0.46337	0.45865	0.45430
3861281.24	0.45383	0.44940	0.44514
3861251.79	0.44424	0.43990	0.43574
3861222.34	0.43462	0.43048	0.42631
3861192.89	0.42497	0.42093	0.41695
3861163.44	0.41510	0.41127	0.40758
3861133.99	0.40506	0.40168	0.39827
3861104.54	0.39493	0.39184	0.38862

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***

INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488802.97	3861310.09	0.95282	488863.58	3861309.29	1.13001
488847.63	3861279.78	1.02272	488850.82	3861262.24	0.99713
488810.14	3861261.44	0.89317	488810.94	3861289.36	0.94249
488819.72	3861306.90	0.99478	488816.53	3861235.92	0.86406
488841.25	3861126.66	0.66003	488879.53	3861121.88	0.72061
488913.82	3861121.08	0.77602	488925.79	3861092.37	0.69134
488920.03	3861067.49	0.57108	488996.74	3861113.92	0.90803
488974.03	3861097.77	0.77377	488931.63	3860976.64	0.46351
488935.67	3861034.68	0.51084	488959.90	3861061.43	0.57653
489165.81	3861208.80	5.02964	489317.74	3861109.28	1.13436
489385.87	3861014.75	0.54275	489372.24	3861112.69	1.31781
489420.79	3861106.73	1.28110	489436.12	3861037.74	0.66186
489488.07	3861036.89	0.69302	489473.59	3861110.99	1.36283
489431.01	3861167.20	2.60873	489662.66	3860915.95	0.39929
489644.78	3861076.07	0.99856	489659.26	3861099.06	1.15498
489735.91	3861020.71	0.71327	489700.14	3861029.23	0.74435
489708.65	3861062.44	0.90600	489779.34	3861099.06	1.07347
489835.95	3859138.59	0.03206	489885.95	3859138.59	0.03240
489935.95	3859138.59	0.03284	489985.95	3859138.59	0.03253
490035.95	3859138.59	0.03208	490085.95		

3859138.59 0.03193
490135.95 3859138.59 0.03222 490185.95
3859138.59 0.03207
490235.95 3859138.59 0.03154 490285.95
3859138.59 0.03020
490335.95 3859138.59 0.02843 490385.95
3859138.59 0.02621
490435.95 3859138.59 0.02525 490485.95
3859138.59 0.02366
490535.95 3859138.59 0.02178 490585.95
3859138.59 0.02069
490635.95 3859138.59 0.01949 490685.95
3859138.59 0.01859
490735.95 3859138.59 0.01809 490785.95
3859138.59 0.01752
490835.95 3859138.59 0.01685 490885.95
3859138.59 0.01631
489835.95 3859188.59 0.03332 489885.95
3859188.59 0.03357
489935.95 3859188.59 0.03401 489985.95
3859188.59 0.03357
490035.95 3859188.59 0.03359 490085.95
3859188.59 0.03406
490135.95 3859188.59 0.03368 490185.95
3859188.59 0.03305
490235.95 3859188.59 0.03190 490285.95
3859188.59 0.03077
490335.95 3859188.59 0.02958 490385.95
3859188.59 0.02788
490435.95 3859188.59 0.02599 490485.95
3859188.59 0.02373
490535.95 3859188.59 0.02240 490585.95
3859188.59 0.02157
490635.95 3859188.59 0.02013 490685.95
3859188.59 0.01856
490735.95 3859188.59 0.01756 490785.95
3859188.59 0.01701
490835.95 3859188.59 0.01733 490885.95
3859188.59 0.01690
489835.95 3859238.59 0.03438 489885.95
3859238.59 0.03492

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902
, L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910
, L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918
, L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926
, L0000927 , L0000928 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
489935.95	3859238.59	0.03507	489985.95	3859238.59	0.03423
490035.95	3859238.59	0.03458	490085.95	3859238.59	0.03527
490135.95	3859238.59	0.03527	490185.95	3859238.59	0.03491
490235.95	3859238.59	0.03344	490285.95	3859238.59	0.03182
490335.95	3859238.59	0.03017	490385.95	3859238.59	0.02876
490435.95	3859238.59	0.02722	490485.95	3859238.59	0.02589
490535.95	3859238.59	0.02418	490585.95	3859238.59	0.02262
490635.95	3859238.59	0.02130	490685.95	3859238.59	0.02089
490735.95	3859238.59	0.01970	490785.95	3859238.59	0.01947
490835.95	3859238.59	0.01917	490885.95	3859238.59	0.01851
489835.95	3859288.59	0.03579	489885.95	3859288.59	0.03616
489935.95	3859288.59	0.03614	489985.95	3859288.59	0.03523
490035.95	3859288.59	0.03591	490085.95	3859288.59	0.03627
490135.95	3859288.59	0.03647	490185.95	3859288.59	0.03608
490235.95	3859288.59	0.03480	490285.95	3859288.59	0.03363

```
         490335.95    3859288.59        0.03165                    490385.95
3859288.59        0.02974
         490435.95    3859288.59        0.02761                    490485.95
3859288.59        0.02717
         490535.95    3859288.59        0.02719                    490585.95
3859288.59        0.02527
         490635.95    3859288.59        0.02471                    490685.95
3859288.59        0.02388
         490735.95    3859288.59        0.02231                    490785.95
3859288.59        0.02181
         490835.95    3859288.59        0.02139                    490885.95
3859288.59        0.02084
         489835.95    3859338.59        0.03742                    489885.95
3859338.59        0.03794
         489935.95    3859338.59        0.03733                    489985.95
3859338.59        0.03741
         490035.95    3859338.59        0.03779                    490085.95
3859338.59        0.03832
         490135.95    3859338.59        0.03818                    490185.95
3859338.59        0.03767
         490235.95    3859338.59        0.03678                    490285.95
3859338.59        0.03542
         490335.95    3859338.59        0.03347                    490385.95
3859338.59        0.03200
         490435.95    3859338.59        0.03091                    490485.95
3859338.59        0.02976
         490535.95    3859338.59        0.02911                    490585.95
3859338.59        0.02828
         490635.95    3859338.59        0.02769                    490685.95
3859338.59        0.02637
         490735.95    3859338.59        0.02502                    490785.95
3859338.59        0.02426
         490835.95    3859338.59        0.02444                    490885.95
3859338.59        0.02371
         489835.95    3859388.59        0.03860                    489885.95
3859388.59        0.03902
         489935.95    3859388.59        0.03965                    489985.95
3859388.59        0.03950
         490035.95    3859388.59        0.03997                    490085.95
3859388.59        0.04043
         490135.95    3859388.59        0.04025                    490185.95
3859388.59        0.03957
         490235.95    3859388.59        0.03854                    490285.95
3859388.59        0.03754
         490335.95    3859388.59        0.03595                    490385.95
3859388.59        0.03486
         490435.95    3859388.59        0.03418                    490485.95
3859388.59        0.03341
         490535.95    3859388.59        0.03251                    490585.95
3859388.59        0.03163
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***

INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490635.95	3859388.59	0.03068	490685.95	3859388.59	0.02849
490735.95	3859388.59	0.02628	490785.95	3859388.59	0.02647
490835.95	3859388.59	0.02756	490885.95	3859388.59	0.02739
489835.95	3859438.59	0.04109	489885.95	3859438.59	0.04122
489935.95	3859438.59	0.04148	489985.95	3859438.59	0.04186
490035.95	3859438.59	0.04225	490085.95	3859438.59	0.04217
490135.95	3859438.59	0.04211	490185.95	3859438.59	0.04153
490235.95	3859438.59	0.04057	490285.95	3859438.59	0.03950
490335.95	3859438.59	0.03844	490385.95	3859438.59	0.03757
490435.95	3859438.59	0.03686	490485.95	3859438.59	0.03603
490535.95	3859438.59	0.03540	490585.95		

3859438.59 0.03469
490635.95 3859438.59 0.03363 490685.95
3859438.59 0.03242
490735.95 3859438.59 0.03175 490785.95
3859438.59 0.03060
490835.95 3859438.59 0.03062 490885.95
3859438.59 0.03064
490085.95 3859488.59 0.04435 490135.95
3859488.59 0.04405
490185.95 3859488.59 0.04368 490235.95
3859488.59 0.04287
490285.95 3859488.59 0.04166 490335.95
3859488.59 0.04116
490385.95 3859488.59 0.04026 490435.95
3859488.59 0.03975
490485.95 3859488.59 0.03907 490535.95
3859488.59 0.03849
490585.95 3859488.59 0.03756 490635.95
3859488.59 0.03685
490685.95 3859488.59 0.03624 490735.95
3859488.59 0.03518
490785.95 3859488.59 0.03437 490835.95
3859488.59 0.03409
490885.95 3859488.59 0.03354 490085.95
3859538.59 0.04638
490135.95 3859538.59 0.04616 490185.95
3859538.59 0.04574
490235.95 3859538.59 0.04543 490285.95
3859538.59 0.04480
490335.95 3859538.59 0.04390 490385.95
3859538.59 0.04329
490435.95 3859538.59 0.04274 490485.95
3859538.59 0.04219
490535.95 3859538.59 0.04167 490585.95
3859538.59 0.04094
490635.95 3859538.59 0.04031 490685.95
3859538.59 0.03968
490735.95 3859538.59 0.03856 490785.95
3859538.59 0.03780
490835.95 3859538.59 0.03724 490885.95
3859538.59 0.03577
490135.95 3859588.59 0.04863 490185.95
3859588.59 0.04773
490235.95 3859588.59 0.04763 490285.95
3859588.59 0.04748
490335.95 3859588.59 0.04676 490385.95
3859588.59 0.04667
490435.95 3859588.59 0.04624 490485.95
3859588.59 0.04571
490535.95 3859588.59 0.04508 490585.95

3859588.59   0.04455
         490635.95   3859588.59   0.04357   490685.95
3859588.59   0.04292
         490735.95   3859588.59   0.04180   490785.95
3859588.59   0.04074
         490835.95   3859588.59   0.04013   490885.95
3859588.59   0.03916
         490135.95   3859638.59   0.04871   490185.95
3859638.59   0.05052

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK3   ***
                                  INCLUDING SOURCE(S):   L0000901   , L0000902
, L0000903   , L0000904   , L0000905   ,
                 L0000906   , L0000907   , L0000908   , L0000909   , L0000910
, L0000911   , L0000912   , L0000913   ,
                 L0000914   , L0000915   , L0000916   , L0000917   , L0000918
, L0000919   , L0000920   , L0000921   ,
                 L0000922   , L0000923   , L0000924   , L0000925   , L0000926
, L0000927   , L0000928   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         490235.95   3859638.59   0.04984   490285.95
3859638.59   0.05034
         490335.95   3859638.59   0.05001   490385.95
3859638.59   0.04948
         490435.95   3859638.59   0.04957   490485.95
3859638.59   0.04908
         490535.95   3859638.59   0.04859   490585.95
3859638.59   0.04811
         490635.95   3859638.59   0.04701   490685.95
3859638.59   0.04601
         490735.95   3859638.59   0.04485   490785.95
3859638.59   0.04399

490835.95 3859638.59 0.04353 490885.95
3859638.59 0.04315
490135.95 3859688.59 0.05259 490185.95
3859688.59 0.05247
490235.95 3859688.59 0.05246 490285.95
3859688.59 0.05148
490335.95 3859688.59 0.05223 490385.95
3859688.59 0.05326
490435.95 3859688.59 0.05253 490485.95
3859688.59 0.05228
490535.95 3859688.59 0.05161 490585.95
3859688.59 0.05140
490635.95 3859688.59 0.05037 490685.95
3859688.59 0.04915
490735.95 3859688.59 0.04803 490785.95
3859688.59 0.04723
490835.95 3859688.59 0.04691 490885.95
3859688.59 0.04762
490085.95 3859738.59 0.05433 490135.95
3859738.59 0.05458
490185.95 3859738.59 0.05504 490235.95
3859738.59 0.05556
490285.95 3859738.59 0.05520 490335.95
3859738.59 0.05609
490385.95 3859738.59 0.05500 490435.95
3859738.59 0.05560
490485.95 3859738.59 0.05511 490535.95
3859738.59 0.05548
490585.95 3859738.59 0.05462 490635.95
3859738.59 0.05370
490685.95 3859738.59 0.05283 490735.95
3859738.59 0.05225
490785.95 3859738.59 0.05201 490835.95
3859738.59 0.05166
490885.95 3859738.59 0.05160 490085.95
3859788.59 0.05626
490135.95 3859788.59 0.05682 490185.95
3859788.59 0.05734
490235.95 3859788.59 0.05798 490285.95
3859788.59 0.05887
490335.95 3859788.59 0.05945 490385.95
3859788.59 0.06010
490435.95 3859788.59 0.05979 490485.95
3859788.59 0.05975
490535.95 3859788.59 0.05856 490585.95
3859788.59 0.05908
490635.95 3859788.59 0.05733 490685.95
3859788.59 0.05663
490735.95 3859788.59 0.05710 490785.95
3859788.59 0.05686

```
         490835.95    3859788.59        0.05614                      490885.95
3859788.59        0.05424
         490085.95    3859838.59        0.05881                      490135.95
3859838.59        0.05940
         490185.95    3859838.59        0.06000                      490235.95
3859838.59        0.06050
         490285.95    3859838.59        0.06147                      490335.95
3859838.59        0.06253
         490385.95    3859838.59        0.06316                      490435.95
3859838.59        0.06346
         490485.95    3859838.59        0.06357                      490535.95
3859838.59        0.06296
         490585.95    3859838.59        0.06260                      490635.95
3859838.59        0.06231
         490685.95    3859838.59        0.06273                      490735.95
3859838.59        0.06157
         490785.95    3859838.59        0.06002                      490835.95
3859838.59        0.05981
```

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK3   ***
                                   INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                  L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                  L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
                  L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         490885.95    3859838.59        0.05912                      490085.95
3859888.59        0.06182
         490135.95    3859888.59        0.06249                      490185.95
```

3859888.59 0.06290
490235.95 3859888.59 0.06381 490285.95
3859888.59 0.06485
490335.95 3859888.59 0.06574 490385.95
3859888.59 0.06650
490435.95 3859888.59 0.06727 490485.95
3859888.59 0.06768
490535.95 3859888.59 0.06743 490585.95
3859888.59 0.06635
490635.95 3859888.59 0.06624 490685.95
3859888.59 0.06627
490735.95 3859888.59 0.06634 490785.95
3859888.59 0.06671
490835.95 3859888.59 0.06603 490885.95
3859888.59 0.06395
490135.95 3859938.59 0.06568 490185.95
3859938.59 0.06648
490235.95 3859938.59 0.06732 490285.95
3859938.59 0.06836
490335.95 3859938.59 0.06946 490385.95
3859938.59 0.07028
490435.95 3859938.59 0.07113 490485.95
3859938.59 0.07178
490535.95 3859938.59 0.07144 490585.95
3859938.59 0.07079
490635.95 3859938.59 0.07098 490685.95
3859938.59 0.06954
490735.95 3859938.59 0.06917 490785.95
3859938.59 0.06974
490835.95 3859938.59 0.07006 490885.95
3859938.59 0.07281
490135.95 3859988.59 0.06922 490185.95
3859988.59 0.06999
490235.95 3859988.59 0.07049 490285.95
3859988.59 0.07166
490335.95 3859988.59 0.07274 490385.95
3859988.59 0.07417
490435.95 3859988.59 0.07518 490485.95
3859988.59 0.07578
490535.95 3859988.59 0.07600 490585.95
3859988.59 0.07583
490635.95 3859988.59 0.07540 490685.95
3859988.59 0.07411
490735.95 3859988.59 0.07438 490785.95
3859988.59 0.07493
490835.95 3859988.59 0.07576 490885.95
3859988.59 0.07776
490135.95 3860038.59 0.07294 490185.95
3860038.59 0.07399
490235.95 3860038.59 0.07501 490285.95

```
3860038.59        0.07621
         490335.95    3860038.59        0.07689                        490385.95
3860038.59        0.07825
         490435.95    3860038.59        0.07929                        490485.95
3860038.59        0.08007
         490535.95    3860038.59        0.08043                        490585.95
3860038.59        0.08082
         490635.95    3860038.59        0.08161                        490685.95
3860038.59        0.08146
         490735.95    3860038.59        0.08014                        490785.95
3860038.59        0.08079
         490835.95    3860038.59        0.08176                        490885.95
3860038.59        0.08354
         490135.95    3860088.59        0.07713                        490185.95
3860088.59        0.07777
         490235.95    3860088.59        0.07912                        490285.95
3860088.59        0.08028
         490335.95    3860088.59        0.08159                        490385.95
3860088.59        0.08270
         490435.95    3860088.59        0.08373                        490485.95
3860088.59        0.08490
         490535.95    3860088.59        0.08545                        490585.95
3860088.59        0.08595
         490635.95    3860088.59        0.08683                        490685.95
3860088.59        0.08725
         490735.95    3860088.59        0.08743                        490785.95
3860088.59        0.08759
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3   ***
                                   INCLUDING SOURCE(S):   L0000901   , L0000902 , L0000903   , L0000904   , L0000905   ,
                  L0000906   , L0000907   , L0000908   , L0000909   , L0000910 , L0000911   , L0000912   , L0000913   ,
                  L0000914   , L0000915   , L0000916   , L0000917   , L0000918 , L0000919   , L0000920   , L0000921   ,
                  L0000922   , L0000923   , L0000924   , L0000925   , L0000926 , L0000927   , L0000928   , . . .   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                               ** CONC OF PM_10   IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490835.95	3860088.59	0.08883	490885.95	3860088.59	0.09050
490135.95	3860138.59	0.08221	490185.95	3860138.59	0.08293
490235.95	3860138.59	0.08429	490285.95	3860138.59	0.08531
490335.95	3860138.59	0.08633	490385.95	3860138.59	0.08752
490435.95	3860138.59	0.08890	490485.95	3860138.59	0.08993
490535.95	3860138.59	0.09061	490585.95	3860138.59	0.09155
490635.95	3860138.59	0.09261	490685.95	3860138.59	0.09383
490735.95	3860138.59	0.09483	490785.95	3860138.59	0.09534
490835.95	3860138.59	0.09673	490885.95	3860138.59	0.09886
490935.95	3860138.59	0.10091	490985.95	3860138.59	0.10242
491035.95	3860138.59	0.10382	490135.95	3860188.59	0.08763
490185.95	3860188.59	0.08834	490235.95	3860188.59	0.08958
490285.95	3860188.59	0.09078	490335.95	3860188.59	0.09194
490385.95	3860188.59	0.09309	490435.95	3860188.59	0.09425
490485.95	3860188.59	0.09559	490535.95	3860188.59	0.09673
490585.95	3860188.59	0.09763	490635.95	3860188.59	0.09929
490685.95	3860188.59	0.10056	490735.95	3860188.59	0.10247
490785.95	3860188.59	0.10383	490835.95	3860188.59	0.10524
490885.95	3860188.59	0.10740	490935.95	3860188.59	0.10956
490985.95	3860188.59	0.11128	491035.95	3860188.59	0.11330
491085.95	3860188.59	0.11584	491135.95	3860188.59	0.11748
490135.95	3860238.59	0.09380	490185.95	3860238.59	0.09442

```
         490235.95    3860238.59        0.09546                       490285.95
3860238.59        0.09660
         490335.95    3860238.59        0.09778                       490385.95
3860238.59        0.09904
         490435.95    3860238.59        0.10027                       490485.95
3860238.59        0.10196
         490535.95    3860238.59        0.10347                       490585.95
3860238.59        0.10504
         490635.95    3860238.59        0.10676                       490685.95
3860238.59        0.10854
         490735.95    3860238.59        0.11049                       490785.95
3860238.59        0.11248
         490835.95    3860238.59        0.11450                       490885.95
3860238.59        0.11642
         490935.95    3860238.59        0.11846                       490985.95
3860238.59        0.11949
         491035.95    3860238.59        0.12191                       491085.95
3860238.59        0.12509
         491135.95    3860238.59        0.12756                       490135.95
3860288.59        0.10042
         490185.95    3860288.59        0.10127                       490235.95
3860288.59        0.10183
         490285.95    3860288.59        0.10319                       490335.95
3860288.59        0.10464
         490385.95    3860288.59        0.10587                       490435.95
3860288.59        0.10756
         490485.95    3860288.59        0.10941                       490535.95
3860288.59        0.11162
         490585.95    3860288.59        0.11384                       490635.95
3860288.59        0.11589
         490685.95    3860288.59        0.11783                       490735.95
3860288.59        0.11992
         490785.95    3860288.59        0.12191                       490835.95
3860288.59        0.12415
         490885.95    3860288.59        0.12621                       490935.95
3860288.59        0.12874
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                                   PAGE 369
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK3   ***
                                   INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                 L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
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L0000914 , L0000915 , L0000916 , L0000917 , L0000918
, L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926
, L0000927 , L0000928 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490985.95	3860288.59	0.13026	491035.95	3860288.59	0.13257
491085.95	3860288.59	0.13564	490135.95	3860338.59	0.10774
490185.95	3860338.59	0.10862	490235.95	3860338.59	0.10912
490285.95	3860338.59	0.11065	490335.95	3860338.59	0.11238
490385.95	3860338.59	0.11419	490435.95	3860338.59	0.11628
490485.95	3860338.59	0.11864	490535.95	3860338.59	0.12087
490585.95	3860338.59	0.12360	490635.95	3860338.59	0.12609
490685.95	3860338.59	0.12842	490735.95	3860338.59	0.13070
490785.95	3860338.59	0.13244	490835.95	3860338.59	0.13502
490885.95	3860338.59	0.13757	490935.95	3860338.59	0.14017
490985.95	3860338.59	0.14324	491035.95	3860338.59	0.14581
491085.95	3860338.59	0.14824	490135.95	3860388.59	0.11601
490185.95	3860388.59	0.11719	490235.95	3860388.59	0.11812
490285.95	3860388.59	0.11977	490335.95	3860388.59	0.12178
490385.95	3860388.59	0.12424	490435.95	3860388.59	0.12679
490485.95	3860388.59	0.12928	490535.95	3860388.59	0.13210
490585.95	3860388.59	0.13487	490635.95	3860388.59	0.13780
490685.95	3860388.59	0.14028	490735.95		

```
3860388.59        0.14304
         490785.95    3860388.59        0.14558                    490835.95
3860388.59        0.14780
         490135.95    3860438.59        0.12597                    490185.95
3860438.59        0.12694
         490235.95    3860438.59        0.12856                    490285.95
3860438.59        0.13072
         490335.95    3860438.59        0.13357                    490385.95
3860438.59        0.13630
         490435.95    3860438.59        0.13929                    490485.95
3860438.59        0.14241
         490535.95    3860438.59        0.14534                    490585.95
3860438.59        0.14849
         490635.95    3860438.59        0.15156                    490685.95
3860438.59        0.15438
         490735.95    3860438.59        0.15693                    490785.95
3860438.59        0.15998
         490835.95    3860438.59        0.16205                    490135.95
3860488.59        0.13672
         490185.95    3860488.59        0.13858                    490235.95
3860488.59        0.14141
         490285.95    3860488.59        0.14400                    490335.95
3860488.59        0.14746
         490385.95    3860488.59        0.15060                    490435.95
3860488.59        0.15334
         490485.95    3860488.59        0.15707                    490535.95
3860488.59        0.16083
         490585.95    3860488.59        0.16436                    490635.95
3860488.59        0.16743
         490685.95    3860488.59        0.17111                    490735.95
3860488.59        0.17383
         490785.95    3860488.59        0.17654                    490135.95
3860538.59        0.15019
         490185.95    3860538.59        0.15179                    490235.95
3860538.59        0.15671
         490285.95    3860538.59        0.16050                    490335.95
3860538.59        0.16396
         490385.95    3860538.59        0.16713                    490435.95
3860538.59        0.17068
         490485.95    3860538.59        0.17411                    490535.95
3860538.59        0.17608
         490585.95    3860538.59        0.18209                    490635.95
3860538.59        0.18604
         490685.95    3860538.59        0.18940                    490735.95
3860538.59        0.19261
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***

INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490785.95	3860538.59	0.19571	490135.95	3860588.59	0.16541
490185.95	3860588.59	0.17424	490235.95	3860588.59	0.17665
490285.95	3860588.59	0.17994	490335.95	3860588.59	0.18413
490385.95	3860588.59	0.18835	490435.95	3860588.59	0.18983
490485.95	3860588.59	0.19195	490535.95	3860588.59	0.19678
490585.95	3860588.59	0.20415	490635.95	3860588.59	0.20766
490685.95	3860588.59	0.21099	490735.95	3860588.59	0.21455
490785.95	3860588.59	0.21817	490135.95	3860638.59	0.18434
490185.95	3860638.59	0.19142	490235.95	3860638.59	0.19911
490285.95	3860638.59	0.20451	490335.95	3860638.59	0.20842
490385.95	3860638.59	0.21273	490435.95	3860638.59	0.21729
490485.95	3860638.59	0.22126	490535.95	3860638.59	0.22392
490585.95	3860638.59	0.22858	490635.95	3860638.59	0.23181

490685.95 3860638.59 0.23512 490735.95
3860638.59 0.24003
490785.95 3860638.59 0.24275 490135.95
3860688.59 0.21326
490185.95 3860688.59 0.21367 490235.95
3860688.59 0.22396
490285.95 3860688.59 0.23450 490335.95
3860688.59 0.23774
490385.95 3860688.59 0.24166 490435.95
3860688.59 0.24650
490485.95 3860688.59 0.25176 490535.95
3860688.59 0.25506
490585.95 3860688.59 0.25802 490635.95
3860688.59 0.26087
490685.95 3860688.59 0.26274 490735.95
3860688.59 0.26637
490785.95 3860688.59 0.26796 490135.95
3860738.59 0.25132
490185.95 3860738.59 0.25965 490235.95
3860738.59 0.26545
490285.95 3860738.59 0.26997 490335.95
3860738.59 0.27426
490385.95 3860738.59 0.27774 490435.95
3860738.59 0.27822
490485.95 3860738.59 0.28325 490535.95
3860738.59 0.29080
490585.95 3860738.59 0.29459 490635.95
3860738.59 0.29669
490685.95 3860738.59 0.29742 490735.95
3860738.59 0.29781
490785.95 3860738.59 0.29722 490135.95
3860788.59 0.30211
490185.95 3860788.59 0.30686 490235.95
3860788.59 0.31196
490285.95 3860788.59 0.31593 490335.95
3860788.59 0.32049
490385.95 3860788.59 0.32108 490435.95
3860788.59 0.32377
490485.95 3860788.59 0.32403 490535.95
3860788.59 0.32839
490585.95 3860788.59 0.33377 490635.95
3860788.59 0.33607
490685.95 3860788.59 0.33643 490735.95
3860788.59 0.33568
490785.95 3860788.59 0.33620 489985.95
3860838.59 0.34464
490035.95 3860838.59 0.34991 490085.95
3860838.59 0.35361
490135.95 3860838.59 0.35681 490185.95
3860838.59 0.36211

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490435.95	3860838.59	0.37427	490485.95	3860838.59	0.37475
490535.95	3860838.59	0.37560	490585.95	3860838.59	0.37731
490635.95	3860838.59	0.37892	490685.95	3860838.59	0.37815
490735.95	3860838.59	0.37680	490785.95	3860838.59	0.37544
490835.95	3860838.59	0.37405	489835.95	3860888.59	0.39219
489885.95	3860888.59	0.40119	489935.95	3860888.59	0.40874
489985.95	3860888.59	0.41434	490035.95	3860888.59	0.41804
490085.95	3860888.59	0.42073	490135.95	3860888.59	0.42384
490185.95	3860888.59	0.42705	490235.95		

3860888.59 0.42901
490285.95 3860888.59 0.43061 490335.95 3860888.59 0.43282
490385.95 3860888.59 0.43202 490435.95 3860888.59 0.42980
490485.95 3860888.59 0.42870 490535.95 3860888.59 0.42824
490585.95 3860888.59 0.42744 490635.95 3860888.59 0.42555
490685.95 3860888.59 0.42312 490735.95 3860888.59 0.42042
490785.95 3860888.59 0.41773 490835.95 3860888.59 0.41464
490885.95 3860888.59 0.41118 490935.95 3860888.59 0.40790
489835.95 3860938.59 0.48631 489885.95 3860938.59 0.49414
489935.95 3860938.59 0.49939 489985.95 3860938.59 0.50311
490035.95 3860938.59 0.50531 490085.95 3860938.59 0.50641
490135.95 3860938.59 0.50714 490185.95 3860938.59 0.50627
490235.95 3860938.59 0.50482 490285.95 3860938.59 0.50257
490335.95 3860938.59 0.50040 490385.95 3860938.59 0.49704
490435.95 3860938.59 0.49314 490485.95 3860938.59 0.48934
490535.95 3860938.59 0.48517 490585.95 3860938.59 0.48110
490635.95 3860938.59 0.47675 490685.95 3860938.59 0.47228
490735.95 3860938.59 0.46783 490785.95 3860938.59 0.46301
490835.95 3860938.59 0.45785 490885.95 3860938.59 0.45265
490935.95 3860938.59 0.44776 489835.95 3860988.59 0.61256
489885.95 3860988.59 0.61509 489935.95 3860988.59 0.61532
489985.95 3860988.59 0.61362 490035.95 3860988.59 0.61058
490085.95 3860988.59 0.60592 490135.95 3860988.59 0.60135
490185.95 3860988.59 0.59516 490235.95 3860988.59 0.58974
490285.95 3860988.59 0.58333 490335.95 3860988.59 0.57640
490385.95 3860988.59 0.56914 490435.95

3860988.59   0.56121
         490485.95   3860988.59   0.55391   490535.95
3860988.59   0.54679
         490585.95   3860988.59   0.53964   490635.95
3860988.59   0.53232
         490685.95   3860988.59   0.52542   490735.95
3860988.59   0.51823
         490785.95   3860988.59   0.51105   490835.95
3860988.59   0.50394
         490885.95   3860988.59   0.49687   490935.95
3860988.59   0.48997
         489835.95   3861038.59   0.77840   489885.95
3861038.59   0.76941

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3   ***
                                   INCLUDING SOURCE(S):   L0000901   , L0000902 , L0000903   , L0000904   , L0000905   ,
                                      L0000906   , L0000907   , L0000908   , L0000909   , L0000910 , L0000911   , L0000912   , L0000913   ,
                                      L0000914   , L0000915   , L0000916   , L0000917   , L0000918 , L0000919   , L0000920   , L0000921   ,
                                      L0000922   , L0000923   , L0000924   , L0000925   , L0000926 , L0000927   , L0000928   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

```
         490335.95    3861038.59        0.66065                    490385.95
3861038.59        0.64777
         490435.95    3861038.59        0.63530                    490485.95
3861038.59        0.62370
         490535.95    3861038.59        0.61275                    490585.95
3861038.59        0.60229
         490635.95    3861038.59        0.59172                    490685.95
3861038.59        0.58137
         490735.95    3861038.59        0.57126                    490785.95
3861038.59        0.56144
         490835.95    3861038.59        0.55189                    490885.95
3861038.59        0.54259
         490935.95    3861038.59        0.53354                    489835.95
3861088.59        0.98501
         489885.95    3861088.59        0.95753                    489935.95
3861088.59        0.93033
         489985.95    3861088.59        0.90510                    490035.95
3861088.59        0.87973
         490085.95    3861088.59        0.85520                    490135.95
3861088.59        0.83128
         490185.95    3861088.59        0.80853                    490235.95
3861088.59        0.78829
         490285.95    3861088.59        0.76858                    490335.95
3861088.59        0.75016
         490385.95    3861088.59        0.73185                    490435.95
3861088.59        0.71453
         490485.95    3861088.59        0.69804                    490535.95
3861088.59        0.68189
         490585.95    3861088.59        0.66736                    490635.95
3861088.59        0.65307
         490685.95    3861088.59        0.63924                    490735.95
3861088.59        0.62599
         490785.95    3861088.59        0.61325                    490835.95
3861088.59        0.60100
         490885.95    3861088.59        0.58922                    490935.95
3861088.59        0.57793
         489020.79    3862564.85        3.02356                    489043.15
3862350.21        3.26654
         489072.96    3862287.60        3.80444                    488980.55
3862078.92        2.49514
         489037.19    3862822.72        3.27930                    489120.66
3863016.49        5.55030
         489037.19    3863350.37        2.84427

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489237.26	489256.56	489275.86	489295.16	489314.46	489333.76	489353.06	489372.36	489391.66
3859957.07	17.22203	15.86431	14.95947	14.20964	13.54493	12.96062	12.47115	11.97464	11.43409
3859937.65	16.59522	15.17895	14.23614	13.47390	12.80886	12.26470	11.79507	11.35255	10.88736
3859918.23	15.94054	14.54846	13.59486	12.78727	12.16251	11.63947	11.17509	10.72559	10.27592
3859898.81	15.41864	14.06598	13.08546	12.28745	11.65884	11.13834	10.67790	10.24976	9.86031
3859879.39	14.98405	13.65221	12.72247	11.92806	11.27914	10.75003	10.26052	9.85467	9.48258
3859859.97	14.56553	13.25195	12.28902	11.49652	10.85136	10.32665	9.85557	9.46947	9.10554
3859840.55	14.17677	12.87162	11.88195	11.09931	10.47516	9.95423	9.48925	9.11974	8.77364
3859821.13	13.83052	12.50941	11.49280	10.70823	10.09942	9.58202	9.15500	8.78735	8.46817
3859801.71	13.48657	12.17732	11.19726	10.39458	9.80538	9.33021	8.86605	8.51174	8.20342
3859782.29	13.20376	11.89219	10.93258	10.10640	9.52493	9.06624	8.60676	8.25411	7.94744
3859762.87	12.95636	11.65572	10.67303	9.87213	9.26770	8.77448	8.36303	7.97432	7.67120
3859743.45	12.73421	11.44269	10.44335	9.66091	9.04592	8.55372	8.13366	7.76612	7.45501
3859724.03	12.51562	11.24870	10.25149	9.46946	8.85413				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	489410.96	489430.26	489449.56	489468.86	489488.16	489507.46	489526.76	489546.06	489565.36
3859957.07	10.91641	10.42405	9.91326	9.53718	9.09140	8.73170	8.62285	8.53264	8.41381

```
 3859937.65 |      10.44866     10.05551      9.60541      9.30303      9.06295
 8.84519      8.76707      8.66561      8.53115
 3859918.23 |       9.82111      9.36506      9.01438      8.80771      8.59610
 8.40302      8.31244      8.17928      8.01024
 3859898.81 |       9.43949      9.03354      8.64439      8.33851      8.15162
 8.03307      7.93232      7.74125      7.62988
 3859879.39 |       9.15201      8.83538      8.35303      7.93414      7.77309
 7.76797      7.63479      7.39744      7.29626
 3859859.97 |       8.79276      8.51124      8.18895      7.86672      7.65623
 7.53522      7.38354      7.18069      7.08999
 3859840.55 |       8.46476      8.19829      7.93637      7.68998      7.44947
 7.26376      7.09308      6.94163      6.82834
 3859821.13 |       8.17299      7.88833      7.63029      7.41363      7.19861
 6.97144      6.80376      6.66644      6.55601
 3859801.71 |       7.92172      7.65079      7.39542      7.16320      6.95888
 6.74983      6.57447      6.42820      6.32828
 3859782.29 |       7.67694      7.42700      7.18419      6.94600      6.72739
 6.53899      6.36467      6.20778      6.10695
 3859762.87 |       7.41213      7.17293      6.97682      6.75785      6.51987
 6.27697      6.16606      6.02502      5.91364
 3859743.45 |       7.18840      6.95887      6.77087      6.55475      6.32876
 6.08545      5.99626      5.84560      5.73401
 3859724.03 |       7.00047      6.76358      6.57496      6.36198      6.14797
 5.92137      5.83068      5.68322      5.56181
 3859704.61 |       6.84282      6.59951      6.40318      6.19995      5.98262
 5.77193      5.67871      5.53275      5.41347
 3859685.19 |       6.67688      6.44145      6.23783      6.03736      5.83085
 5.63278      5.53728      5.39718      5.27821
 3859665.77 |       6.51068      6.27646      6.08026      5.88736      5.69104
 5.50687      5.40812      5.26226      5.15192
 3859646.35 |       6.36403      6.13088      5.94037      5.74965      5.55669
 5.38076      5.28607      5.14553      5.02829
 3859626.93 |       6.23343      5.99611      5.81154      5.62223      5.44213
 5.28499      5.16807      5.04267      4.92967
 3859607.51 |       6.11860      5.88692      5.69205      5.51343      5.34594
 5.19639      5.06830      4.94518      4.84110
 3859588.09 |       6.00245      5.77175      5.56694      5.38484      5.22302
 5.07941      4.94584      4.82811      4.73395
 3859568.67 |       5.89679      5.65450      5.44388      5.25537      5.09513
 4.96022      4.82086      4.70919      4.62324
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 375
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
```

  3859957.07 | 8.15679   7.79721   7.39119
  3859937.65 | 8.33340   8.09612   7.49202
  3859918.23 | 7.87350   7.75806   7.38247
  3859898.81 | 7.55375   7.41962   7.21914
  3859879.39 | 7.25963   7.12412   7.01604
  3859859.97 | 7.02086   6.84436   6.77852
  3859840.55 | 6.75318   6.60144   6.55985
  3859821.13 | 6.46105   6.39908   6.33773
  3859801.71 | 6.24606   6.16281   6.12638
  3859782.29 | 6.03820   5.94430   5.92161
  3859762.87 | 5.82790   5.73350   5.74822
  3859743.45 | 5.63814   5.55172   5.57125
  3859724.03 | 5.47464   5.40025   5.39971
  3859704.61 | 5.32586   5.25046   5.23694
  3859685.19 | 5.19039   5.10532   5.08185
  3859665.77 | 5.05693   4.97203   4.93796
  3859646.35 | 4.93378   4.84914   4.80543
  3859626.93 | 4.83462   4.74305   4.68186
  3859607.51 | 4.74662   4.64309   4.56960
  3859588.09 | 4.64122   4.54425   4.46418
  3859568.67 | 4.54205   4.45202   4.36117

VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150
, L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158
, L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166
, L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174
, L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)					
	489260.34	489284.99	489309.64	489334.29	489358.94	489383.59
489408.24	489432.89	489457.54				
3859173.42	8.59784	7.47381	6.58593	5.92797	5.43439	5.03204
4.70220	4.42289	4.18040				
3859151.85	8.49334	7.36248	6.51735	5.88610	5.39903	4.99821
4.66942	4.39203	4.14861				
3859130.28	8.35268	7.24510	6.46706	5.85338	5.36916	4.97015
4.64037	4.36053	4.11958				
3859108.71	8.29415	7.21809	6.45274	5.84161	5.34929	4.94505
4.61452	4.32968	4.08832				
3859087.14	8.32596	7.27171	6.45315	5.82914	5.32609	4.92107
4.58814	4.30391	4.05908				
3859065.57	8.39042	7.29569	6.45476	5.81438	5.30289	4.89677
4.55818	4.27853	4.03858				
3859044.00	8.47715	7.33224	6.45551	5.79128	5.27556	4.87010
4.53060	4.25576	4.01950				
3859022.43	8.50414	7.31555	6.43175	5.76640	5.25166	4.84706
4.51388	4.23705	3.99873				
3859000.86	8.48619	7.29168	6.40844	5.74327	5.22770	4.82113
4.48919	4.21611	3.97956				
3858979.29	8.46341	7.26845	6.38522	5.72163	5.20600	4.79609
4.46881	4.19677	3.96429				
3858957.72	8.44625	7.24966	6.36566	5.70339	5.18853	4.77942
4.44990	4.17886	3.94999				
3858936.15	8.43303	7.23434	6.34656	5.68156	5.16613	4.75789
4.42851	4.15565	3.92823				
3858914.58	8.41779	7.21574	6.32668	5.66085	5.14888	4.74043
4.41236	4.14085	3.91192				
3858893.01	8.40404	7.19711	6.30365	5.64170	5.13588	4.72837
4.39569	4.12800	3.89941				

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  3858871.44 |       8.39292      7.18716      6.28892      5.62690      5.11544
 4.71258      4.38360      4.11674      3.88709
  3858849.87 |       8.38042      7.17567      6.28059      5.61468      5.10443
 4.69928      4.37466      4.10624      3.87689
  3858828.30 |       8.37522      7.16522      6.27010      5.60860      5.09664
 4.69264      4.36593      4.09883      3.87391
  3858806.73 |       8.36954      7.15626      6.26326      5.60333      5.09267
 4.68759      4.35673      4.09733      3.87386
  3858785.16 |       8.36287      7.15166      6.26478      5.60525      5.09989
 4.69787      4.36939      4.10780      3.88189
  3858763.59 |       8.36075      7.15721      6.27800      5.62383      5.12147
 4.72226      4.39890      4.13053      3.90383
  3858742.02 |       8.40770      7.22222      6.34439      5.68408      5.17336
 4.76948      4.43950      4.17148      3.94083
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 377
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                    *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     489482.19    489506.84    489531.49    489556.14    489580.79
489605.44    489630.09    489654.74    489679.39
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3859173.42 |       3.96819      3.78644      3.62825      3.50701      3.38657
 3.28924      3.20475      3.13125      3.07054
  3859151.85 |       3.94124      3.75559      3.59871      3.46920      3.35687
 3.26599      3.17788      3.10422      3.03993
  3859130.28 |       3.91141      3.72729      3.57433      3.44116      3.33208
```

```
 3.23736      3.14953      3.07577      3.00822
  3859108.71 |       3.88469      3.70105      3.54805      3.41827      3.30553
 3.20356      3.12257      3.04150      2.97721
  3859087.14 |       3.85892      3.68615      3.52694      3.39696      3.27670
 3.17570      3.09340      3.01660      2.95220
  3859065.57 |       3.83877      3.66314      3.50748      3.37025      3.25422
 3.14950      3.06775      2.99007      2.92560
  3859044.00 |       3.81716      3.63919      3.48976      3.34988      3.23385
 3.12886      3.04595      2.96876      2.90148
  3859022.43 |       3.79442      3.61932      3.46712      3.33700      3.21469
 3.11038      3.02435      2.94591      2.87827
  3859000.86 |       3.77904      3.59891      3.45039      3.32049      3.19833
 3.09295      3.00655      2.92874      2.85743
  3858979.29 |       3.76139      3.58326      3.43210      3.30265      3.18653
 3.08119      2.99189      2.91052      2.83907
  3858957.72 |       3.74553      3.57153      3.41853      3.28356      3.17630
 3.07120      2.97618      2.89811      2.82650
  3858936.15 |       3.72880      3.55778      3.40635      3.27206      3.15941
 3.05796      2.96590      2.88707      2.81322
  3858914.58 |       3.71549      3.54833      3.39785      3.26187      3.14433
 3.04600      2.95668      2.87602      2.80435
  3858893.01 |       3.70435      3.54021      3.38760      3.25575      3.13589
 3.03276      2.95018      2.87014      2.79852
  3858871.44 |       3.69229      3.52442      3.37494      3.24644      3.13028
 3.02442      2.94288      2.86251      2.79426
  3858849.87 |       3.68376      3.51638      3.37082      3.24225      3.12680
 3.02455      2.94001      2.85598      2.78956
  3858828.30 |       3.68142      3.51550      3.36769      3.24256      3.12975
 3.02528      2.94096      2.85810      2.79161
  3858806.73 |       3.68524      3.51715      3.36993      3.24511      3.13517
 3.02992      2.93966      2.86130      2.79727
  3858785.16 |       3.69096      3.52604      3.37805      3.25001      3.13997
 3.03748      2.95043      2.86790      2.80575
  3858763.59 |       3.70919      3.54317      3.39341      3.26565      3.15492
 3.05277      2.96737      2.88460      2.81972
  3858742.02 |       3.74286      3.57016      3.42537      3.29587      3.17891
 3.07190      2.99354      2.91208      2.84419
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 378
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
```

, L0000159   , L0000160   , L0000161   ,
                L0000162   , L0000163   , L0000164   , L0000165   , L0000166
, L0000167   , L0000168   , L0000169   ,
                L0000170   , L0000171   , L0000172   , L0000173   , L0000174
, L0000175   , L0000176   , . . .   ,

                                *** NETWORK ID: UCART2   ; NETWORK TYPE:
GRIDCART ***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489704.04   489728.69   489753.34
 -
- -

  3859173.42 | 3.01403   2.96377   2.91507
  3859151.85 | 2.98055   2.93044   2.88207
  3859130.28 | 2.94799   2.89806   2.84988
  3859108.71 | 2.92089   2.86567   2.81769
  3859087.14 | 2.89327   2.84028   2.79585
  3859065.57 | 2.86928   2.81698   2.77270
  3859044.00 | 2.84504   2.79195   2.74786
  3859022.43 | 2.82168   2.76936   2.72537
  3859000.86 | 2.79820   2.74520   2.70458
  3858979.29 | 2.77953   2.72653   2.68571
  3858957.72 | 2.76915   2.71592   2.66589
  3858936.15 | 2.75579   2.70192   2.65134
  3858914.58 | 2.74410   2.69031   2.63947
  3858893.01 | 2.73792   2.68132   2.63461
  3858871.44 | 2.73332   2.67634   2.63052
  3858849.87 | 2.73090   2.67715   2.63164
  3858828.30 | 2.73333   2.68043   2.63344
  3858806.73 | 2.73957   2.68696   2.64249
  3858785.16 | 2.74576   2.69544   2.65322
  3858763.59 | 2.75965   2.70890   2.66659
  3858742.02 | 2.78525   2.72838   2.68570

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                            *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0000149   , L0000150
, L0000151   , L0000152   , L0000153   ,

```
                 L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                 L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                 L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     488584.66    488614.48    488644.30    488674.12    488703.94
488733.76    488763.58    488793.40    488823.22
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3858904.98 |       1.68774      1.69799      1.70834      1.72262      1.73957
 1.75962      1.78176      1.81812      1.85858
  3858880.05 |       1.65376      1.66346      1.67468      1.68946      1.70346
 1.72162      1.75050      1.78529      1.82969
  3858855.12 |       1.61880      1.63134      1.64127      1.65511      1.67126
 1.68828      1.72411      1.75560      1.79878
  3858830.19 |       1.58379      1.59777      1.60726      1.61639      1.64263
 1.66503      1.69277      1.72705      1.76978
  3858805.26 |       1.54227      1.55004      1.57478      1.59180      1.61447
 1.63610      1.66388      1.69853      1.74106
  3858780.33 |       1.51004      1.52496      1.54118      1.55930      1.58081
 1.60666      1.63647      1.67173      1.71396
  3858755.40 |       1.47669      1.49109      1.50614      1.52497      1.54825
 1.57535      1.60818      1.64545      1.68890
  3858730.47 |       1.44376      1.45672      1.47162      1.49148      1.51487
 1.54329      1.57783      1.61803      1.66350
  3858705.54 |       1.41184      1.42545      1.43906      1.45818      1.48166
 1.51033      1.54473      1.58623      1.63457
  3858680.61 |       1.38037      1.39450      1.40517      1.42435      1.44783
 1.47728      1.51180      1.55256      1.60112
  3858655.68 |       1.34784      1.36281      1.37747      1.39514      1.41821
 1.44603      1.47958      1.51897      1.56629
  3858630.75 |       1.31531      1.33020      1.34533      1.36428      1.38731
 1.41529      1.44964      1.48802      1.53307
  3858605.82 |       1.28496      1.29892      1.31452      1.33394      1.35702
 1.38484      1.41875      1.45646      1.50092
  3858580.89 |       1.25765      1.27138      1.28600      1.30543      1.32703
 1.35421      1.38736      1.42438      1.46684
  3858555.96 |       1.23622      1.24787      1.26168      1.27933      1.30105
 1.32624      1.35669      1.39258      1.43402
  3858531.03 |       1.21051      1.22305      1.23851      1.25688      1.27805
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	488853.04	488882.86	488912.68	488942.50	488972.32	489002.14	489031.96	489061.78	489091.60
3858904.98	1.90604	1.96796	2.03848	2.12500	2.22830	2.35650	2.51664	2.72221	2.99473
3858880.05	1.87846	1.93797	2.00903	2.09440	2.19711	2.32477	2.48489	2.69043	2.96444
3858855.12	1.84971	1.90972	1.98049	2.06528	2.16733	2.29395	2.45150	2.65566	2.93222
3858830.19	1.82111	1.88105	1.95215	2.03695	2.13819	2.26257	2.41883	2.62171	2.90276

```
  3858805.26 |       1.79195      1.85286      1.92371      2.00792      2.10882
 2.23172      2.38674      2.58991      2.85856
  3858780.33 |       1.76375      1.82337      1.89407      1.97829      2.07893
 2.20134      2.35372      2.55343      2.81971
  3858755.40 |       1.73834      1.79641      1.86588      1.94824      2.04710
 2.16785      2.31776      2.51193      2.77559
  3858730.47 |       1.71536      1.77259      1.83977      1.91896      2.01476
 2.13221      2.27735      2.46630      2.71897
  3858705.54 |       1.68906      1.74827      1.81462      1.89149      1.98335
 2.09487      2.23433      2.41235      2.64821
  3858680.61 |       1.65607      1.71778      1.78690      1.86408      1.95306
 2.05997      2.19054      2.35557      2.56876
  3858655.68 |       1.62012      1.68186      1.75284      1.83241      1.92139
 2.02493      2.14862      2.30430      2.49928
  3858630.75 |       1.58428      1.64272      1.71194      1.79136      1.88231
 1.98661      2.10684      2.25244      2.43255
  3858605.82 |       1.55008      1.60595      1.67071      1.74543      1.83359
 1.93797      2.05874      2.19931      2.37017
  3858580.89 |       1.51517      1.57017      1.63180      1.70154      1.78326
 1.88049      1.99757      2.13628      2.30269
  3858555.96 |       1.48046      1.53255      1.59179      1.65855      1.73576
 1.82590      1.93249      2.06132      2.21957
  3858531.03 |       1.44816      1.49630      1.55099      1.61387      1.68653
 1.77147      1.87007      1.98705      2.12883
  3858506.10 |       1.41944      1.46388      1.51431      1.57169      1.63822
 1.71610      1.80676      1.91431      2.04243
  3858481.17 |       1.39222      1.43482      1.48236      1.53541      1.59674
 1.66646      1.74767      1.84261      1.95717
  3858456.24 |       1.36295      1.40459      1.45112      1.50172      1.55902
 1.62376      1.69683      1.78143      1.88030
  3858431.31 |       1.33224      1.37162      1.41471      1.46349      1.51789
 1.57850      1.64716      1.72475      1.81366
  3858406.38 |       1.29654      1.33315      1.37350      1.41960      1.47071
 1.52700      1.59065      1.66166      1.74174
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***       07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***       01:16:45

                                 PAGE 381
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
```

```
                 L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     489121.42    489151.24    489181.06
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3858904.98 |       3.37659      3.95947      5.06407
  3858880.05 |       3.34865      3.95032      5.04033
  3858855.12 |       3.32401      3.93185      5.03171
  3858830.19 |       3.29845      3.89419      5.01630
  3858805.26 |       3.24968      3.87450      4.99369
  3858780.33 |       3.20358      3.81761      4.95747
  3858755.40 |       3.15209      3.75902      4.87902
  3858730.47 |       3.08007      3.66119      4.71678
  3858705.54 |       2.98827      3.51089      4.40887
  3858680.61 |       2.87573      3.32197      4.07752
  3858655.68 |       2.76440      3.15013      3.78155
  3858630.75 |       2.66449      2.99350      3.52439
  3858605.82 |       2.58104      2.87465      3.32587
  3858580.89 |       2.50487      2.77731      3.16844
  3858555.96 |       2.41751      2.67015      3.01466
  3858531.03 |       2.31089      2.54793      2.86734
  3858506.10 |       2.20188      2.41000      2.69020
  3858481.17 |       2.09762      2.27478      2.50588
  3858456.24 |       1.99971      2.14564      2.33413
  3858431.31 |       1.91661      2.03963      2.18919
  3858406.38 |       1.83348      1.93901      2.06444
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 382
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
```

, L0000167   , L0000168   , L0000169   ,
                L0000170   , L0000171   , L0000172   , L0000173   , L0000174
, L0000175   , L0000176   , . . .   ,

                                *** NETWORK ID: UCART4   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

    Y-COORD | X-COORD (METERS)
    (METERS) | 489386.10   489460.62   489535.14   489609.66   489684.18
489758.70   489833.22   489907.74   489982.26
 -
- -

  3861675.76 | 11.30628   9.94237   8.89205   8.24513   7.78475
 7.44790   7.17859   6.94923   6.75443
  3861650.62 | 11.57064   10.12534   9.13812   8.48993   8.02385
 7.66654   7.39184   7.17734   6.94662
  3861625.48 | 11.80066   10.28874   9.34271   8.70721   8.25774
 7.92058   7.62831   7.43498   7.19918
  3861600.34 | 12.01120   10.58048   9.55720   8.94351   8.54525
 8.22840   7.90795   7.67480   7.51572
  3861575.20 | 12.52460   10.79700   9.77203   9.20147   8.81305
 8.46080   8.16406   7.92006   7.81756
  3861550.06 | 12.81627   11.05862   10.06875   9.46939   9.02918
 8.68473   8.42000   8.22431   8.12064
  3861524.92 | 13.09482   11.37326   10.37425   9.74694   9.29405
 8.96286   8.71725   8.54864   8.42956
  3861499.78 | 13.40044   11.69443   10.69130   10.08007   9.64704
 9.27955   9.06558   8.91791   8.84001
  3861474.64 | 13.73881   12.03867   11.04401   10.45970   10.05747
 9.65393   9.46638   9.33102   9.32537
  3861449.50 | 14.07295   12.42456   11.43844   10.85241   10.41379
10.11889   9.92885   9.79448   9.71972
  3861424.36 | 14.49347   12.87665   11.86789   11.28232   10.90491
10.60792   10.46361   10.40246   10.20918
  3861399.22 | 14.96989   13.35532   12.33759   11.81299   11.47220
11.19309   11.08324   10.94625   10.76837
  3861374.08 | 15.48770   13.88243   12.90962   12.43176   12.10829
11.85765   11.77259   11.55999   11.41383
  3861348.94 | 16.08870   14.51227   13.58021   13.13363   12.82668
12.61866   12.52400   12.29822   12.16742
  3861323.80 | 16.79700   15.32572   14.42883   13.97500   13.71034
13.53078   13.34390   13.18507   13.05872
  3861298.66 | 17.67917   16.28838   15.47477   15.01786   14.84809
14.62296   14.40850   14.25079   14.15744
  3861273.52 | 18.83469   17.48489   16.74221   16.38188   16.12816
15.95685   15.73629   15.57481   15.45401

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000149   , L0000150
, L0000151   , L0000152   , L0000153   ,
                   L0000154   , L0000155   , L0000156   , L0000157   , L0000158
, L0000159   , L0000160   , L0000161   ,
                   L0000162   , L0000163   , L0000164   , L0000165   , L0000166
, L0000167   , L0000168   , L0000169   ,
                   L0000170   , L0000171   , L0000172   , L0000173   , L0000174
, L0000175   , L0000176   , . . .   ,

                                   *** NETWORK ID: UCART4   ; NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 490056.78   490131.30   490205.82   490280.34   490354.86
490429.38   490503.90   490578.42   490652.94
 -
- -

  3861675.76 | 6.62058   6.50728   6.35961   6.25178   6.18053
 6.09786   6.02202   5.94275   5.90978
  3861650.62 | 6.81942   6.71575   6.60505   6.53567   6.38726
 6.30222   6.22096   6.19289   6.18524
  3861625.48 | 7.07152   6.98726   6.90200   6.85194   6.66897
 6.58519   6.49205   6.48624   6.46739
  3861600.34 | 7.39240   7.30767   7.22868   7.15198   7.05025
 6.96089   6.86140   6.77972   6.70957
  3861575.20 | 7.66488   7.56487   7.52178   7.42214   7.30350
 7.21542   7.13068   7.06729   6.97706
  3861550.06 | 7.96951   7.92628   7.83517   7.75184   7.60104

```
 7.55371      7.42580      7.35786      7.27261
  3861524.92 |       8.34246      8.26723      8.15543      8.09225      7.98172
 7.86484      7.75484      7.68002      7.59922
  3861499.78 |       8.73240      8.61649      8.55405      8.49300      8.37819
 8.21804      8.11029      8.03161      7.95483
  3861474.64 |       9.12138      9.02790      9.02922      8.93828      8.75844
 8.64391      8.51271      8.41541      8.33083
  3861449.50 |       9.55925      9.58163      9.50859      9.35086      9.16560
 9.07108      8.96837      8.85441      8.74698
  3861424.36 |      10.06484     10.02030     10.00274      9.83014      9.64406
 9.55690      9.42147      9.32271      9.19549
  3861399.22 |      10.62550     10.56927     10.51357     10.35037     10.18501
10.07974      9.93511      9.82312      9.68022
  3861374.08 |      11.28418     11.22148     11.14457     10.94832     10.78975
10.66881     10.52155     10.39282     10.23113
  3861348.94 |      12.04331     11.95196     11.89268     11.65220     11.47941
11.32763     11.17740     11.01929     10.84491
  3861323.80 |      12.91649     12.79854     12.65573     12.47725     12.29645
12.10554     11.91856     11.72507     11.53656
  3861298.66 |      13.94845     13.87021     13.60562     13.43024     13.20013
13.01290     12.79300     12.61440     12.31682
  3861273.52 |      15.15577     14.99931     14.78593     14.55145     14.27438
14.10815     13.80591     13.55770     13.26930
  3861248.38 |      16.67954     16.41787     16.20244     15.89090     15.59128
15.37416     15.04868     14.86321     14.41026
  3861223.24 |      18.66411     18.31435     18.02682     17.72478     17.30820
17.02404     16.69326     16.49418     15.88604
  3861198.10 |      21.43138     20.97284     20.60981     20.35837     19.68410
19.42371     19.01319     18.63151     17.96706
  3861172.96 |      26.09883     25.19900     24.81340     24.26493     23.54041
23.12747     22.69244     22.07948     21.32346
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 384
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,
```

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	490727.46	490801.98	490876.50
3861675.76	5.93491	5.85023	5.81521
3861650.62	6.18418	6.10578	6.06733
3861625.48	6.39927	6.34107	6.28539
3861600.34	6.63922	6.59017	6.51456
3861575.20	6.91158	6.85401	6.76810
3861550.06	7.20171	7.13819	7.04009
3861524.92	7.53085	7.44008	7.33728
3861499.78	7.87298	7.78686	7.66294
3861474.64	8.23386	8.15844	8.02107
3861449.50	8.64465	8.51788	8.40529
3861424.36	9.06780	8.94622	8.78853
3861399.22	9.56660	9.40272	9.24871
3861374.08	10.10281	9.92117	9.75114
3861348.94	10.67401	10.50709	10.32000
3861323.80	11.33427	11.14960	10.97149
3861298.66	12.18649	11.97669	11.71036
3861273.52	13.07432	12.87511	12.56796
3861248.38	14.16325	13.98174	13.63845
3861223.24	15.60905	15.40433	15.01683
3861198.10	17.61026	17.35779	16.89609
3861172.96	20.83842	20.50340	19.99294

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	491611.20	491641.99	491672.78	491703.57	491734.36	491765.15	491795.94	491826.73	491857.52	
3861693.54	5.04283	5.01804	4.99770	4.95536	4.92027	4.88515	4.85719	4.83133	4.80510	
3861664.09	5.21843	5.18862	5.15068	5.12051	5.08763	5.05462	5.02146	4.98563	4.94717	
3861634.64	5.41004	5.37447	5.33597	5.30284	5.26687	5.22281	5.19703	5.15534	5.11095	
3861605.19	5.60753	5.57435	5.53222	5.49291	5.45904	5.41385	5.37673	5.33396	5.29102	
3861575.74	5.82347	5.78353	5.73733	5.69707	5.65070	5.60711	5.56616	5.51929	5.47229	
3861546.29	6.05013	6.00911	5.95503	5.90732	5.86252	5.81438	5.77199	5.72046	5.67461	
3861516.84	6.29534	6.24608	6.19326	6.13699	6.08391	6.02745	5.97409	5.92371	5.87013	
3861487.39	6.55401	6.49907	6.44388	6.38145	6.31899	6.25651	6.19741	6.13832	6.07929	
3861457.94	6.83152	6.76612	6.70060	6.63495	6.56921	6.49987	6.43426	6.37222	6.30688	
3861428.49	7.13895	7.05713	6.98761	6.91391	6.84026	6.76676	6.69350	6.62051	6.54427	
3861399.04	7.46815	7.37608	7.29721	7.20987	7.13115	7.04859	6.96249	6.87688	6.79550	
3861369.59	7.81843	7.71885	7.62886	7.53002	7.43624	7.34715	7.24990	7.15729	7.06517	
3861340.14	8.20480	8.09565	7.98694	7.87880	7.77115	7.66390	7.55714	7.45969	7.34612	
3861310.69	8.64272	8.50928	8.38230	8.25582	8.12982	8.00949	7.88529	7.76740	7.64247	
3861281.24	9.14798	8.98753	8.82802	8.68127	8.52997	8.38098	8.23500	8.09251	7.95852	
3861251.79	9.73397	9.53164	9.33177	9.14858	8.95753	8.77838	8.60531	8.44370	8.28285	
3861222.34	10.41905	10.14997	9.89095	9.65051	9.42149	9.19770	8.99150	8.80136	8.62049	
3861192.89	11.20077	10.83959	10.51385	10.20507	9.90567	9.63557	9.38476	9.16891	8.96627	
3861163.44	12.06542	11.57800	11.16749	10.76979	10.39901					

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	491888.31	491919.10	491949.89	491980.68	492011.47	492042.26	492073.05	492103.84	492134.63	
3861693.54	4.76945	4.71516	4.68624	4.65474	4.62305	4.59119	4.55039	4.51621	4.48416	
3861664.09	4.91585	4.87705	4.84287	4.81546	4.78309	4.74829	4.68636	4.64951	4.61717	
3861634.64	5.07154	5.03698	5.00459	4.96948	4.93652	4.90102	4.85631	4.79783	4.75341	
3861605.19	5.25055	5.20989	5.17163	5.13071	5.08974	5.05357	5.00779	4.96450	4.91193	
3861575.74	5.43339	5.38616	5.34159	5.30218	5.25499	5.22036	5.18530	5.12146	5.08182	
3861546.29	5.62576	5.57689	5.52805	5.47927	5.44102	5.38968	5.33088	5.27997	5.23421	
3861516.84	5.82546	5.77182	5.71545	5.65930	5.61978	5.56648	5.49747	5.44739	5.39227	

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  3861487.39 |       6.02666      5.97087      5.91511      5.85356      5.79802
 5.75090      5.67621      5.61586      5.55867
  3861457.94 |       6.24175      6.18006      6.11530      6.05690      5.99252
 5.94299      5.85911      5.79613      5.73374
  3861428.49 |       6.46842      6.39979      6.33131      6.26308      6.19205
 6.13685      6.05491      5.98296      5.91197
  3861399.04 |       6.71446      6.63744      6.56083      6.48140      6.40282
 6.33798      6.25180      6.17320      6.09888
  3861369.59 |       6.97755      6.87938      6.80090      6.70890      6.62186
 6.54626      6.44876      6.36613      6.29126
  3861340.14 |       7.25460      7.13648      7.04399      6.94546      6.84884
 6.76468      6.66489      6.57404      6.48510
  3861310.69 |       7.53310      7.40917      7.29646      7.19034      7.08665
 6.99265      6.88294      6.78650      6.68565
  3861281.24 |       7.82354      7.69248      7.56530      7.44192      7.33409
 7.21381      7.09720      6.99135      6.88497
  3861251.79 |       8.12324      7.97913      7.84024      7.70633      7.58128
 7.44456      7.32057      7.19706      7.08142
  3861222.34 |       8.43812      8.27926      8.12273      7.96863      7.82120
 7.67577      7.54436      7.41406      7.28488
  3861192.89 |       8.77017      8.58015      8.40539      8.23495      8.07296
 7.90565      7.76707      7.63018      7.49494
  3861163.44 |       9.08830      8.87736      8.67948      8.49309      8.32152
 8.14088      7.98663      7.84355      7.69463
  3861133.99 |       9.36544      9.14761      8.93340      8.72749      8.53861
 8.36011      8.19536      8.03857      7.88072
  3861104.54 |       9.62834      9.38445      9.15743      8.94505      8.75057
 8.56697      8.39306      8.22340      8.06191
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
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                                   PAGE 387
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                    *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***
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** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 492165.42	492196.21	492227.00
3861693.54	4.45205	4.41779	4.38770
3861664.09	4.58252	4.54786	4.51533
3861634.64	4.70682	4.68315	4.64352
3861605.19	4.85483	4.81913	4.77647
3861575.74	5.01608	4.96259	4.91895
3861546.29	5.18121	5.13095	5.07622
3861516.84	5.34510	5.28814	5.23663
3861487.39	5.50455	5.44824	5.39248
3861457.94	5.67199	5.61094	5.55325
3861428.49	5.84765	5.78136	5.71602
3861399.04	6.02865	5.95661	5.88855
3861369.59	6.21146	6.13611	6.06210
3861340.14	6.39806	6.31597	6.23854
3861310.69	6.59066	6.49481	6.41076
3861281.24	6.77822	6.67789	6.58359
3861251.79	6.96955	6.85777	6.75292
3861222.34	7.16413	7.04405	6.92464
3861192.89	7.36129	7.22913	7.10194
3861163.44	7.55211	7.41166	7.28050
3861133.99	7.73400	7.59741	7.46255
3861104.54	7.90783	7.76847	7.62705

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488802.97	3861310.09	8.09927	488863.58	3861309.29	8.75168
488847.63	3861279.78	8.91727	488850.82	3861262.24	9.19015
488810.14	3861261.44	8.74261	488810.94	3861289.36	8.39726
488819.72	3861306.90	8.27479	488816.53	3861235.92	9.14701
488841.25	3861126.66	11.42655	488879.53	3861121.88	12.32048
488913.82	3861121.08	13.17880	488925.79	3861092.37	14.33945
488920.03	3861067.49	14.80548	488996.74	3861113.92	16.04299
488974.03	3861097.77	15.91663	488931.63	3860976.64	16.95143
488935.67	3861034.68	16.07712	488959.90	3861061.43	16.44891
489165.81	3861208.80	21.40637	489317.74	3861109.28	51.26447
489385.87	3861014.75	51.74228	489372.24	3861112.69	43.28299
489420.79	3861106.73	39.23002	489436.12	3861037.74	43.54835
489488.07	3861036.89	41.19013	489473.59	3861110.99	36.77718
489431.01	3861167.20	34.89018	489662.66	3860915.95	84.37473
489644.78	3861076.07	32.46859	489659.26	3861099.06	31.89072
489735.91	3861020.71	37.44384	489700.14	3861029.23	36.88072
489708.65	3861062.44	32.65773	489779.34	3861099.06	30.99673
489835.95	3859138.59	2.72001	489885.95	3859138.59	2.63456
489935.95	3859138.59	2.56315	489985.95	3859138.59	2.46978
490035.95	3859138.59	2.39294	490085.95	3859138.59	2.34699
490135.95	3859138.59	2.33157	490185.95	3859138.59	2.30869

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         490235.95    3859138.59        2.27710                      490285.95
3859138.59        2.21198
         490335.95    3859138.59        2.12915                      490385.95
3859138.59        2.02281
         490435.95    3859138.59        1.98605                      490485.95
3859138.59        1.91151
         490535.95    3859138.59        1.80726                      490585.95
3859138.59        1.74153
         490635.95    3859138.59        1.65885                      490685.95
3859138.59        1.59102
         490735.95    3859138.59        1.55046                      490785.95
3859138.59        1.50519
         490835.95    3859138.59        1.45117                      490885.95
3859138.59        1.40593
         489835.95    3859188.59        2.79067                      489885.95
3859188.59        2.70002
         489935.95    3859188.59        2.62991                      489985.95
3859188.59        2.53222
         490035.95    3859188.59        2.47950                      490085.95
3859188.59        2.46169
         490135.95    3859188.59        2.42284                      490185.95
3859188.59        2.38148
         490235.95    3859188.59        2.32268                      490285.95
3859188.59        2.26700
         490335.95    3859188.59        2.21418                      490385.95
3859188.59        2.14003
         490435.95    3859188.59        2.05343                      490485.95
3859188.59        1.93329
         490535.95    3859188.59        1.85710                      490585.95
3859188.59        1.80478
         490635.95    3859188.59        1.70501                      490685.95
3859188.59        1.59014
         490735.95    3859188.59        1.52125                      490785.95
3859188.59        1.47051
         490835.95    3859188.59        1.49494                      490885.95
3859188.59        1.45992
         489835.95    3859238.59        2.86000                      489885.95
3859238.59        2.78277
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
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                                   PAGE 389
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
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                 L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                 L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                 L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         489935.95    3859238.59        2.70073                       489985.95
3859238.59        2.58871
         490035.95    3859238.59        2.55589                       490085.95
3859238.59        2.55801
         490135.95    3859238.59        2.53637                       490185.95
3859238.59        2.50146
         490235.95    3859238.59        2.43260                       490285.95
3859238.59        2.35694
         490335.95    3859238.59        2.28460                       490385.95
3859238.59        2.22668
         490435.95    3859238.59        2.15742                       490485.95
3859238.59        2.09752
         490535.95    3859238.59        1.98947                       490585.95
3859238.59        1.88798
         490635.95    3859238.59        1.80220                       490685.95
3859238.59        1.76950
         490735.95    3859238.59        1.69817                       490785.95
3859238.59        1.67260
         490835.95    3859238.59        1.65265                       490885.95
3859238.59        1.61177
         489835.95    3859288.59        2.95600                       489885.95
3859288.59        2.87038
         489935.95    3859288.59        2.78427                       489985.95
3859288.59        2.67184
         490035.95    3859288.59        2.66420                       490085.95
3859288.59        2.65425
         490135.95    3859288.59        2.64197                       490185.95
3859288.59        2.60962
         490235.95    3859288.59        2.54817                       490285.95
3859288.59        2.49955
         490335.95    3859288.59        2.41478                       490385.95
3859288.59        2.33029
         490435.95    3859288.59        2.22192                       490485.95
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3859288.59        2.20385
         490535.95    3859288.59        2.20732                    490585.95
3859288.59        2.09742
         490635.95    3859288.59        2.06581                    490685.95
3859288.59        2.00493
         490735.95    3859288.59        1.90526                    490785.95
3859288.59        1.87607
         490835.95    3859288.59        1.85064                    490885.95
3859288.59        1.81444
         489835.95    3859338.59        3.07685                    489885.95
3859338.59        3.00114
         489935.95    3859338.59        2.88798                    489985.95
3859338.59        2.83450
         490035.95    3859338.59        2.81435                    490085.95
3859338.59        2.81088
         490135.95    3859338.59        2.78461                    490185.95
3859338.59        2.75254
         490235.95    3859338.59        2.70946                    490285.95
3859338.59        2.65817
         490335.95    3859338.59        2.57837                    490385.95
3859338.59        2.51776
         490435.95    3859338.59        2.46973                    490485.95
3859338.59        2.41474
         490535.95    3859338.59        2.37471                    490585.95
3859338.59        2.32918
         490635.95    3859338.59        2.30005                    490685.95
3859338.59        2.22557
         490735.95    3859338.59        2.14663                    490785.95
3859338.59        2.10259
         490835.95    3859338.59        2.12129                    490885.95
3859338.59        2.07692
         489835.95    3859388.59        3.18634                    489885.95
3859388.59        3.11121
         489935.95    3859388.59        3.06902                    489985.95
3859388.59        3.00823
         490035.95    3859388.59        2.99497                    490085.95
3859388.59        2.99089
         490135.95    3859388.59        2.96469                    490185.95
3859388.59        2.92771
         490235.95    3859388.59        2.88835                    490285.95
3859388.59        2.85303
         490335.95    3859388.59        2.79605                    490385.95
3859388.59        2.75631
         490435.95    3859388.59        2.73077                    490485.95
3859388.59        2.69714
         490535.95    3859388.59        2.65536                    490585.95
3859388.59        2.62309
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490635.95	3859388.59	2.56970	490685.95	3859388.59	2.44738
490735.95	3859388.59	2.31232	490785.95	3859388.59	2.33446
490835.95	3859388.59	2.41665	490885.95	3859388.59	2.41635
489835.95	3859438.59	3.38886	489885.95	3859438.59	3.30158
489935.95	3859438.59	3.24586	489985.95	3859438.59	3.21730
490035.95	3859438.59	3.20216	490085.95	3859438.59	3.17458
490135.95	3859438.59	3.16030	490185.95	3859438.59	3.13525
490235.95	3859438.59	3.10496	490285.95	3859438.59	3.07419
490335.95	3859438.59	3.04014	490385.95	3859438.59	3.01336
490435.95	3859438.59	2.99104	490485.95	3859438.59	2.95991
490535.95	3859438.59	2.93858	490585.95	3859438.59	2.91362
490635.95	3859438.59	2.86784	490685.95	3859438.59	2.81931

490735.95 3859438.59 2.79237 490785.95
3859438.59 2.72475
490835.95 3859438.59 2.74154 490885.95
3859438.59 2.76204
490085.95 3859488.59 3.41058 490135.95
3859488.59 3.39400
490185.95 3859488.59 3.38828 490235.95
3859488.59 3.37196
490285.95 3859488.59 3.33948 490335.95
3859488.59 3.33873
490385.95 3859488.59 3.31481 490435.95
3859488.59 3.30165
490485.95 3859488.59 3.28575 490535.95
3859488.59 3.27407
490585.95 3859488.59 3.24205 490635.95
3859488.59 3.22154
490685.95 3859488.59 3.20488 490735.95
3859488.59 3.16167
490785.95 3859488.59 3.13311 490835.95
3859488.59 3.13879
490885.95 3859488.59 3.12853 490085.95
3859538.59 3.68279
490135.95 3859538.59 3.68084 490185.95
3859538.59 3.68438
490235.95 3859538.59 3.69920 490285.95
3859538.59 3.70017
490335.95 3859538.59 3.68525 490385.95
3859538.59 3.68029
490435.95 3859538.59 3.67624 490485.95
3859538.59 3.67180
490535.95 3859538.59 3.66573 490585.95
3859538.59 3.65257
490635.95 3859538.59 3.64386 490685.95
3859538.59 3.63349
490735.95 3859538.59 3.59519 490785.95
3859538.59 3.57567
490835.95 3859538.59 3.56826 490885.95
3859538.59 3.49854
490135.95 3859588.59 4.03657 490185.95
3859588.59 4.03479
490235.95 3859588.59 4.06819 490285.95
3859588.59 4.09794
490335.95 3859588.59 4.09907 490385.95
3859588.59 4.12604
490435.95 3859588.59 4.13815 490485.95
3859588.59 4.14441
490535.95 3859588.59 4.14555 490585.95
3859588.59 4.14926
490635.95 3859588.59 4.12653 490685.95
3859588.59 4.12166

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490235.95	3859638.59	4.51810	490285.95	3859638.59	4.58762
490335.95	3859638.59	4.61903	490385.95	3859638.59	4.64079
490435.95	3859638.59	4.68666	490485.95	3859638.59	4.70310
490535.95	3859638.59	4.71950	490585.95	3859638.59	4.73063
490635.95	3859638.59	4.70518	490685.95	3859638.59	4.67756
490735.95	3859638.59	4.63877	490785.95	3859638.59	4.61125
490835.95	3859638.59	4.60682	490885.95	3859638.59	4.60571
490135.95	3859688.59	4.98612	490185.95		

3859688.59 5.04881
490235.95 3859688.59 5.11218 490285.95 3859688.59 5.12802
490335.95 3859688.59 5.21618 490385.95 3859688.59 5.31603
490435.95 3859688.59 5.33619 490485.95 3859688.59 5.36861
490535.95 3859688.59 5.37459 490585.95 3859688.59 5.39797
490635.95 3859688.59 5.37157 490685.95 3859688.59 5.32645
490735.95 3859688.59 5.28575 490785.95 3859688.59 5.25863
490835.95 3859688.59 5.25744 490885.95 3859688.59 5.32235
490085.95 3859738.59 5.56318 490135.95 3859738.59 5.68033
490185.95 3859738.59 5.80943 490235.95 3859738.59 5.92078
490285.95 3859738.59 5.94883 490335.95 3859738.59 6.06683
490385.95 3859738.59 6.05223 490435.95 3859738.59 6.12587
490485.95 3859738.59 6.14523 490535.95 3859738.59 6.19268
490585.95 3859738.59 6.17641 490635.95 3859738.59 6.15122
490685.95 3859738.59 6.12135 490735.95 3859738.59 6.10422
490785.95 3859738.59 6.10057 490835.95 3859738.59 6.08900
490885.95 3859738.59 6.09044 490085.95 3859788.59 6.44076
490135.95 3859788.59 6.60579 490185.95 3859788.59 6.75056
490235.95 3859788.59 6.88069 490285.95 3859788.59 6.98059
490335.95 3859788.59 7.06045 490385.95 3859788.59 7.12657
490435.95 3859788.59 7.15309 490485.95 3859788.59 7.16183
490535.95 3859788.59 7.12054 490585.95 3859788.59 7.15485
490635.95 3859788.59 7.08140 490685.95 3859788.59 7.04369
490735.95 3859788.59 7.06572 490785.95 3859788.59 7.04278
490835.95 3859788.59 6.98714 490885.95 3859788.59 6.85343
490085.95 3859838.59 7.67933 490135.95

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490885.95	3859838.59	7.82472	490085.95	3859888.59	9.38592
490135.95	3859888.59	9.53635	490185.95	3859888.59	9.62233
490235.95	3859888.59	9.69449	490285.95	3859888.59	9.73456

490335.95 3859888.59 9.75296 490385.95
3859888.59 9.74613
490435.95 3859888.59 9.72325 490485.95
3859888.59 9.68722
490535.95 3859888.59 9.62998 490585.95
3859888.59 9.50593
490635.95 3859888.59 9.42067 490685.95
3859888.59 9.33484
490735.95 3859888.59 9.24844 490785.95
3859888.59 9.17030
490835.95 3859888.59 9.05405 490885.95
3859888.59 8.86156
490135.95 3859938.59 11.70305 490185.95
3859938.59 11.70779
490235.95 3859938.59 11.68283 490285.95
3859938.59 11.63173
490335.95 3859938.59 11.55398 490385.95
3859938.59 11.45908
490435.95 3859938.59 11.34732 490485.95
3859938.59 11.22744
490535.95 3859938.59 11.10635 490585.95
3859938.59 10.95901
490635.95 3859938.59 10.81094 490685.95
3859938.59 10.58871
490735.95 3859938.59 10.42048 490785.95
3859938.59 10.29299
490835.95 3859938.59 10.15136 490885.95
3859938.59 10.09050
490135.95 3859988.59 14.45970 490185.95
3859988.59 14.29489
490235.95 3859988.59 14.10037 490285.95
3859988.59 13.89312
490335.95 3859988.59 13.67359 490385.95
3859988.59 13.43762
490435.95 3859988.59 13.19599 490485.95
3859988.59 12.96342
490535.95 3859988.59 12.73952 490585.95
3859988.59 12.51931
490635.95 3859988.59 12.28408 490685.95
3859988.59 12.00724
490735.95 3859988.59 11.78433 490785.95
3859988.59 11.57449
490835.95 3859988.59 11.37157 490885.95
3859988.59 11.18947
490135.95 3860038.59 17.83526 490185.95
3860038.59 17.38665
490235.95 3860038.59 16.93808 490285.95
3860038.59 16.50019
490335.95 3860038.59 16.07560 490385.95
3860038.59 15.65523

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         490435.95    3860038.59       15.25169                      490485.95
3860038.59       14.87009
         490535.95    3860038.59       14.51451                      490585.95
3860038.59       14.17045
         490635.95    3860038.59       13.82986                      490685.95
3860038.59       13.51681
         490735.95    3860038.59       13.19241                      490785.95
3860038.59       12.88431
         490835.95    3860038.59       12.58932                      490885.95
3860038.59       12.31021
         490135.95    3860088.59       21.70772                      490185.95
3860088.59       20.86148
         490235.95    3860088.59       20.08095                      490285.95
3860088.59       19.35849
         490335.95    3860088.59       18.67808                      490385.95
3860088.59       18.03985
         490435.95    3860088.59       17.44385                      490485.95
3860088.59       16.87779
         490535.95    3860088.59       16.36572                      490585.95
3860088.59       15.88340
         490635.95    3860088.59       15.41545                      490685.95
3860088.59       14.98387
         490735.95    3860088.59       14.57544                      490785.95
3860088.59       14.18037
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 *** AERMET - VERSION  19191 ***   ***
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                                  PAGE 393
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
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Y-COORD (M) CONC

- - - -

3860238.59   25.13538
         490435.95   3860238.59   23.92283   490485.95
3860238.59   22.79893
         490535.95   3860238.59   21.77752   490585.95
3860238.59   20.83992
         490635.95   3860238.59   19.97170   490685.95
3860238.59   19.16644
         490735.95   3860238.59   18.41095   490785.95
3860238.59   17.70443
         490835.95   3860238.59   17.04122   490885.95
3860238.59   16.42643
         490935.95   3860238.59   15.84855   490985.95
3860238.59   15.35885
         491035.95   3860238.59   14.83520   491085.95
3860238.59   14.32219
         491135.95   3860238.59   13.87409   490135.95
3860288.59   37.00413
         490185.95   3860288.59   34.57405   490235.95
3860288.59   32.43836
         490285.95   3860288.59   30.52033   490335.95
3860288.59   28.79956
         490385.95   3860288.59   27.25879   490435.95
3860288.59   25.85102
         490485.95   3860288.59   24.56535   490535.95
3860288.59   23.37444
         490585.95   3860288.59   22.28295   490635.95
3860288.59   21.29115
         490685.95   3860288.59   20.38291   490735.95
3860288.59   19.53218
         490785.95   3860288.59   18.74689   490835.95
3860288.59   17.99853
         490885.95   3860288.59   17.31709   490935.95
3860288.59   16.66073

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                                  L0000170   , L0000171   , L0000172   , L0000173   , L0000174

, L0000175   , L0000176   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490985.95	3860288.59	16.09648	491035.95	3860288.59	15.53157
491085.95	3860288.59	14.98978	490135.95	3860338.59	40.03118
490185.95	3860338.59	37.31564	490235.95	3860338.59	34.93303
490285.95	3860338.59	32.78993	490335.95	3860338.59	30.86653
490385.95	3860338.59	29.13479	490435.95	3860338.59	27.55947
490485.95	3860338.59	26.11766	490535.95	3860338.59	24.81242
490585.95	3860338.59	23.58838	490635.95	3860338.59	22.47601
490685.95	3860338.59	21.45803	490735.95	3860338.59	20.51750
490785.95	3860338.59	19.68019	490835.95	3860338.59	18.85217
490885.95	3860338.59	18.09231	490935.95	3860338.59	17.38000
490985.95	3860338.59	16.71176	491035.95	3860338.59	16.10997
491085.95	3860338.59	15.54616	490135.95	3860388.59	42.39449
490185.95	3860388.59	39.48651	490235.95	3860388.59	36.92940
490285.95	3860388.59	34.63147	490335.95	3860388.59	32.56220
490385.95	3860388.59	30.68026	490435.95	3860388.59	28.97378
490485.95	3860388.59	27.42757	490535.95	3860388.59	25.99922
490585.95	3860388.59	24.69139	490635.95	3860388.59	23.47536
490685.95	3860388.59	22.38031	490735.95	3860388.59	21.34930
490785.95	3860388.59	20.41058	490835.95	3860388.59	19.55816

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         490135.95    3860438.59       44.16166                       490185.95
3860438.59       41.15295
         490235.95    3860438.59       38.46446                       490285.95
3860438.59       36.04730
         490335.95    3860438.59       33.84800                       490385.95
3860438.59       31.87151
         490435.95    3860438.59       30.06770                       490485.95
3860438.59       28.41641
         490535.95    3860438.59       26.91926                       490585.95
3860438.59       25.52897
         490635.95    3860438.59       24.24977                       490685.95
3860438.59       23.08758
         490735.95    3860438.59       22.02898                       490785.95
3860438.59       21.03047
         490835.95    3860438.59       20.14221                       490135.95
3860488.59       45.58534
         490185.95    3860488.59       42.45828                       490235.95
3860488.59       39.62880
         490285.95    3860488.59       37.11586                       490335.95
3860488.59       34.81142
         490385.95    3860488.59       32.75203                       490435.95
3860488.59       30.91080
         490485.95    3860488.59       29.17543                       490535.95
3860488.59       27.58023
         490585.95    3860488.59       26.12340                       490635.95
3860488.59       24.81517
         490685.95    3860488.59       23.58330                       490735.95
3860488.59       22.48217
         490785.95    3860488.59       21.46040                       490135.95
3860538.59       46.61254
         490185.95    3860538.59       43.44435                       490235.95
3860538.59       40.44957
         490285.95    3860538.59       37.81129                       490335.95
3860538.59       35.46014
         490385.95    3860538.59       33.35798                       490435.95
3860538.59       31.42654
         490485.95    3860538.59       29.67358                       490535.95
3860538.59       28.13477
         490585.95    3860538.59       26.52519                       490635.95
3860538.59       25.14134
         490685.95    3860538.59       23.90439                       490735.95
3860538.59       22.74884
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                                   PAGE 395
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
490785.95	3860538.59	21.70309	490135.95	3860588.59	47.14691
490185.95	3860588.59	43.44612	490235.95	3860588.59	40.66896
490285.95	3860588.59	38.08229	490335.95	3860588.59	35.68051
490385.95	3860588.59	33.50207	490435.95	3860588.59	31.67557
490485.95	3860588.59	29.93926	490535.95	3860588.59	28.27155
490585.95	3860588.59	26.58706	490635.95	3860588.59	25.22590
490685.95	3860588.59	23.96265	490735.95	3860588.59	22.80814
490785.95	3860588.59	21.73339	490135.95	3860638.59	46.98316
490185.95	3860638.59	43.58412	490235.95	3860638.59	40.43209
490285.95	3860638.59	37.73633	490335.95	3860638.59	35.41104
490385.95	3860638.59	33.26580	490435.95	3860638.59	31.28685
490485.95	3860638.59	29.52045	490535.95	3860638.59	27.95969
490585.95	3860638.59	26.43431	490635.95	3860638.59	25.08499
490685.95	3860638.59	23.82755	490735.95	3860638.59	22.64264
490785.95	3860638.59	21.59982	490135.95		

3860688.59 46.02126
490185.95 3860688.59 42.84217 490235.95
3860688.59 39.80535
490285.95 3860688.59 36.87141 490335.95
3860688.59 34.66047
490385.95 3860688.59 32.61384 490435.95
3860688.59 30.69354
490485.95 3860688.59 28.91481 490535.95
3860688.59 27.36354
490585.95 3860688.59 25.94801 490635.95
3860688.59 24.65555
490685.95 3860688.59 23.48469 490735.95
3860688.59 22.36331
490785.95 3860688.59 21.37529 490135.95
3860738.59 44.23379
490185.95 3860738.59 40.90872 490235.95
3860738.59 38.11537
490285.95 3860738.59 35.68120 490335.95
3860738.59 33.49938
490385.95 3860738.59 31.55365 490435.95
3860738.59 29.89902
490485.95 3860738.59 28.19729 490535.95
3860738.59 26.55922
490585.95 3860738.59 25.17744 490635.95
3860738.59 23.94981
490685.95 3860738.59 22.87349 490735.95
3860738.59 21.87211
490785.95 3860738.59 20.96323 490135.95
3860788.59 41.67629
490185.95 3860788.59 38.79437 490235.95
3860788.59 36.21760
490285.95 3860788.59 33.94448 490335.95
3860788.59 31.88303
490385.95 3860788.59 30.16233 490435.95
3860788.59 28.51505
490485.95 3860788.59 27.08607 490535.95
3860788.59 25.65368
490585.95 3860788.59 24.26055 490635.95
3860788.59 23.09498
490685.95 3860788.59 22.07096 490735.95
3860788.59 21.16149
490785.95 3860788.59 20.26822 489985.95
3860838.59 48.71542
490035.95 3860838.59 44.89640 490085.95
3860838.59 41.68362
490135.95 3860838.59 38.85857 490185.95
3860838.59 36.19495
490235.95 3860838.59 33.87326 490285.95
3860838.59 31.88417
490335.95 3860838.59 30.02805 490385.95

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                             *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                                    L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                                    L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                                    L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   , L0000176   , . . .   ,

                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

490385.95 3860888.59 26.62094 490435.95
3860888.59 25.40975
490485.95 3860888.59 24.25862 490535.95
3860888.59 23.18417
490585.95 3860888.59 22.17060 490635.95
3860888.59 21.22203
490685.95 3860888.59 20.37694 490735.95
3860888.59 19.60831
490785.95 3860888.59 18.87368 490835.95
3860888.59 18.23050
490885.95 3860888.59 17.66454 490935.95
3860888.59 17.09802
489835.95 3860938.59 48.54972 489885.95
3860938.59 44.53457
489935.95 3860938.59 41.29144 489985.95
3860938.59 38.50077
490035.95 3860938.59 36.04260 490085.95
3860938.59 33.86493
490135.95 3860938.59 31.81571 490185.95
3860938.59 30.14225
490235.95 3860938.59 28.62443 490285.95
3860938.59 27.27236
490335.95 3860938.59 25.97135 490385.95
3860938.59 24.88523
490435.95 3860938.59 23.87929 490485.95
3860938.59 22.90740
490535.95 3860938.59 22.01809 490585.95
3860938.59 21.15652
490635.95 3860938.59 20.35761 490685.95
3860938.59 19.62994
490735.95 3860938.59 18.95467 490785.95
3860938.59 18.32989
490835.95 3860938.59 17.79134 490885.95
3860938.59 17.29561
490935.95 3860938.59 16.78959 489835.95
3860988.59 39.52027
489885.95 3860988.59 37.34739 489935.95
3860988.59 35.34374
489985.95 3860988.59 33.53129 490035.95
3860988.59 31.84663
490085.95 3860988.59 30.34290 490135.95
3860988.59 28.90510
490185.95 3860988.59 27.66869 490235.95
3860988.59 26.40678
490285.95 3860988.59 25.30379 490335.95
3860988.59 24.32621
490385.95 3860988.59 23.43688 490435.95
3860988.59 22.67223
490485.95 3860988.59 21.88478 490535.95
3860988.59 21.12644

```
         490585.95    3860988.59       20.43016                      490635.95
3860988.59       19.79735
         490685.95    3860988.59       19.17708                      490735.95
3860988.59       18.58942
         490785.95    3860988.59       18.06800                      490835.95
3860988.59       17.60223
         490885.95    3860988.59       17.18156                      490935.95
3860988.59       16.74266
         489835.95    3861038.59       32.98758                      489885.95
3861038.59       31.92804
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 397
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         489935.95    3861038.59       30.74967                      489985.95
3861038.59       29.65954
         490035.95    3861038.59       28.65292                      490085.95
3861038.59       27.69237
         490135.95    3861038.59       26.77334                      490185.95
3861038.59       25.88623
         490235.95    3861038.59       25.06605                      490285.95
3861038.59       24.22427
         490335.95    3861038.59       23.45846                      490385.95
3861038.59       22.83152
         490435.95    3861038.59       22.23369                      490485.95
```

3861038.59   21.62557
         490535.95   3861038.59   21.03396   490585.95
3861038.59   20.47182
         490635.95   3861038.59   19.93420   490685.95
3861038.59   19.42847
         490735.95   3861038.59   18.96191   490785.95
3861038.59   18.54277
         490835.95   3861038.59   18.15801   490885.95
3861038.59   17.78959
         490935.95   3861038.59   17.44636   489835.95
3861088.59   30.39799
         489885.95   3861088.59   29.87677   489935.95
3861088.59   29.31010
         489985.95   3861088.59   28.70963   490035.95
3861088.59   28.13230
         490085.95   3861088.59   27.60979   490135.95
3861088.59   27.12110
         490185.95   3861088.59   26.64925   490235.95
3861088.59   26.09420
         490285.95   3861088.59   25.55404   490335.95
3861088.59   24.99814
         490385.95   3861088.59   24.59311   490435.95
3861088.59   24.15329
         490485.95   3861088.59   23.73485   490535.95
3861088.59   23.35134
         490585.95   3861088.59   22.94605   490635.95
3861088.59   22.49542
         490685.95   3861088.59   22.11945   490735.95
3861088.59   21.81336
         490785.95   3861088.59   21.52462   490835.95
3861088.59   21.25877
         490885.95   3861088.59   21.01368   490935.95
3861088.59   20.79292
         489020.79   3862564.85   4.67854   489043.15
3862350.21   5.26056
         489072.96   3862287.60   5.92366   488980.55
3862078.92   5.11427
         489037.19   3862822.72   4.63112   489120.66
3863016.49   6.71788
         489037.19   3863350.37   3.79808

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: LOADING1 ***
                                INCLUDING SOURCE(S):   L0000149   , L0000150
, L0000151   , L0000152   , L0000153   ,
                 L0000154   , L0000155   , L0000156   , L0000157   , L0000158
, L0000159   , L0000160   , L0000161   ,
                 L0000162   , L0000163   , L0000164   , L0000165   , L0000166
, L0000167   , L0000168   , L0000169   ,
                 L0000170   , L0000171   , L0000172   , L0000173   , L0000174
, L0000175   ,

                                *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489237.26   489256.56   489275.86
      489295.16   489314.46
 -
- -

 3859957.1 | 178.22623 (18010221)   188.08298 (18010221)   189.19011 (18010221)
   184.87322 (19011424)   184.24092 (19011424)
 3859937.6 | 174.73828 (18010221)   183.25845 (18010221)   183.46782 (18010221)
   181.74341 (19011424)   180.30062 (19011424)
 3859918.2 | 174.02083 (18010221)   180.15716 (18010221)   179.45041 (18010221)
   178.43166 (19011424)   176.30365 (19011424)
 3859898.8 | 170.12233 (18010221)   176.60921 (18010221)   175.30227 (18010221)
   173.72701 (19011424)   172.41834 (19011424)
 3859879.4 | 167.23186 (18010221)   171.59686 (18010221)   169.35706 (18010221)
   168.91371 (19011424)   165.95954 (19011424)
 3859860.0 | 164.77846 (18010221)   168.26631 (18010221)   165.26242 (18010221)
   165.66563 (19011424)   162.08386 (19011424)
 3859840.5 | 162.23226 (18010221)   164.91496 (18010221)   162.12863 (19011424)
   162.43310 (19011424)   158.23839 (19011424)
 3859821.1 | 159.64594 (18010221)   161.59267 (18010221)   160.98184 (19011424)
   160.69773 (19011424)   155.45767 (19011424)
 3859801.7 | 157.37048 (18010221)   158.32201 (18010221)   158.35862 (19011424)
   157.45483 (19011424)   151.74988 (16122922)
 3859782.3 | 156.24567 (18010221)   156.41744 (18010221)   155.71332 (19011424)
   155.48207 (19011424)   149.70070 (16122922)
 3859762.9 | 153.45352 (18010221)   152.91945 (18010221)   153.31967 (19011424)
   152.18897 (19011424)   149.05017 (16122922)
 3859743.4 | 150.61572 (18010221)   149.40622 (18010221)   150.65539 (19011424)
   148.90955 (19011424)   147.09263 (16122922)
 3859724.0 | 147.82437 (18010221)   146.97994 (19011424)   147.95505 (19011424)
   145.64826 (19011424)   145.16479 (16122922)
 3859704.6 | 145.01157 (18010221)   145.36359 (19011424)   145.24767 (19011424)
   142.40932 (19011424)   143.24061 (16122922)

```
 3859685.2 |    142.18109 (18010221)    143.18713 (19011424)    142.47721 (19011424)
   138.10805 (19011424)    140.00150 (16122922)
 3859665.8 |    139.24340 (18010221)    140.94373 (19011424)    139.58171 (19011424)
   133.82854 (19011424)    137.19565 (16122922)
 3859646.4 |    137.62192 (18010221)    138.76236 (19011424)    137.17963 (19011424)
   131.85206 (19011424)    137.63540 (16122922)
 3859626.9 |    135.24724 (19011424)    136.57532 (19011424)    135.74554 (19011424)
   129.89999 (16122922)    136.88902 (16122922)
 3859607.5 |    133.52017 (19011424)    135.53997 (19011424)    133.02409 (19011424)
   129.61815 (16122922)    135.13127 (16122922)
 3859588.1 |    133.05626 (19011424)    133.84313 (19011424)    130.58454 (19011424)
   129.42383 (16122922)    134.74383 (16122922)
 3859568.7 |    131.96001 (19011424)    132.78276 (19011424)    128.85924 (19011424)
   129.22387 (16122922)    135.42408 (16122922)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 399
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                  INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                               *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489333.76              489353.06              489372.36
      489391.66              489410.96
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    185.61079 (16122922)    200.79773 (20040918)    214.43774 (20040918)
   216.74601 (20040918)    211.34002 (20040918)
 3859937.6 |    179.83853 (16122922)    190.17483 (20040918)    205.73289 (20040918)
   212.78717 (20040918)    208.34509 (20040918)
 3859918.2 |    175.42857 (16122922)    184.94840 (20040918)    202.19993 (20040918)
```

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                   INCLUDING SOURCE(S):   L0000149   , L0000150
, L0000151   , L0000152   , L0000153   ,
                 L0000154   , L0000155   , L0000156   , L0000157   , L0000158

```
, L0000159    , L0000160    , L0000161    ,
                L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489430.26              489449.56              489468.86
      489488.16              489507.46
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    198.24793 (20040918)    192.67194 (15120819)    198.14722 (15120819)
   194.45698 (15120819)    186.07184 (15120819)
 3859937.6 |    196.54535 (20040918)    192.20606 (16020819)    196.70859 (15120819)
   196.53335 (15120819)    191.43402 (15120819)
 3859918.2 |    192.06121 (20040918)    189.05815 (16020819)    193.13013 (15120819)
   195.01285 (15120819)    190.99439 (15120819)
 3859898.8 |    190.10806 (16020819)    187.23260 (16020819)    189.46167 (15120819)
   191.79510 (15120819)    188.68206 (15120819)
 3859879.4 |    188.24243 (16020819)    185.68535 (16020819)    185.86816 (15120819)
   188.58296 (15120819)    186.07908 (15120819)
 3859860.0 |    182.59805 (16020819)    184.40759 (16020819)    181.52411 (15120819)
   184.94200 (15120819)    182.81093 (15120819)
 3859840.5 |    175.48329 (16020819)    179.84968 (16020819)    176.24042 (15120819)
   180.58455 (15120819)    179.50793 (15120819)
 3859821.1 |    172.52407 (16020819)    176.93386 (16020819)    173.06558 (16020819)
   176.64557 (15120819)    176.59549 (15120819)
 3859801.7 |    167.29656 (16020819)    170.93677 (16020819)    169.41451 (16020819)
   172.90629 (15120819)    173.19871 (15120819)
 3859782.3 |    163.79611 (16020819)    166.21843 (16020819)    165.69542 (16020819)
   169.45240 (15120819)    169.93580 (15120819)
 3859762.9 |    161.73875 (16020819)    163.05215 (16020819)    160.77480 (16020819)
   162.84362 (15120819)    167.96766 (15120819)
 3859743.4 |    159.04757 (16020819)    160.34711 (16020819)    158.21718 (16020819)
   159.58854 (15120819)    165.24201 (15120819)
 3859724.0 |    157.87599 (16020819)    157.72956 (16020819)    156.84634 (16020819)
   156.63585 (15120819)    162.35738 (15120819)
 3859704.6 |    153.91103 (16020819)    155.16303 (16020819)    153.28866 (16020819)
   153.75220 (15120819)    159.49967 (15120819)
 3859685.2 |    151.43694 (16020819)    153.15940 (16020819)    152.03271 (16020819)
   150.93582 (15120819)    156.67078 (15120819)
 3859665.8 |    151.35873 (16020819)    152.07321 (16020819)    149.76266 (16020819)
   148.18498 (15120819)    153.87263 (15120819)
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489526.76	489546.06	489565.36	489584.66	489603.96
3859957.1	173.76081 (15120819)	171.44268 (18120603)	174.43740 (18120603)	169.78680 (18120603)	158.93797 (20030523)
3859937.6	181.38851 (15120819)	178.76197 (18120603)	185.00965 (18120603)	183.81402 (18120603)	174.79490 (18120603)
3859918.2	181.60641 (15120819)	176.35118 (18120603)	182.24918 (18120603)	183.40751 (18120603)	178.47499 (18120603)
3859898.8	180.00635 (15120819)	172.21331 (18120603)	181.01116 (18120603)	184.78540 (18120603)	179.89911 (18120603)
3859879.4	178.12037 (15120819)	168.15348 (18120603)	178.05076 (18120603)		
3859646.4	150.37740 (16020819)	149.74702 (16020819)	147.86978 (16020819)	145.74161 (15120819)	151.36623 (15120819)
3859626.9	150.44595 (16020819)	148.11843 (16020819)	146.67859 (16020819)	142.87322 (15120819)	148.09590 (15120819)
3859607.5	148.08590 (16020819)	147.08147 (16020819)	143.55425 (16020819)	138.03641 (16020819)	139.37440 (15120819)
3859588.1	146.00741 (16020819)	146.98014 (16020819)	144.01329 (16020819)	138.04901 (15120819)	140.40051 (15120819)
3859568.7	146.33377 (16020819)	147.00143 (16020819)	143.61556 (16020819)	139.78156 (15120819)	141.80217 (15120819)

```
   183.38653 (18120603)    181.58091 (18120603)
 3859860.0 |    175.75657 (15120819)    164.48371 (18120603)    175.30825 (18120603)
   181.37584 (18120603)    180.75233 (18120603)
 3859840.5 |    173.24794 (15120819)    161.96764 (15120819)    171.42575 (18120603)
   178.29257 (18120603)    179.29199 (18120603)
 3859821.1 |    170.87438 (15120819)    160.22548 (15120819)    167.15107 (18120603)
   174.63920 (18120603)    177.35275 (18120603)
 3859801.7 |    168.29345 (15120819)    158.44272 (15120819)    162.88467 (18120603)
   171.08108 (18120603)    174.59834 (18120603)
 3859782.3 |    165.65348 (15120819)    156.62391 (15120819)    158.55249 (18120603)
   167.33306 (18120603)    171.63169 (18120603)
 3859762.9 |    163.14318 (15120819)    154.66853 (15120819)    154.22179 (18120603)
   163.51130 (18120603)    168.53945 (18120603)
 3859743.4 |    160.43578 (15120819)    152.77062 (15120819)    149.90504 (18120603)
   159.67502 (18120603)    165.38834 (18120603)
 3859724.0 |    157.91545 (15120819)    150.84981 (15120819)    145.63081 (18120603)
   155.80984 (18120603)    162.13109 (18120603)
 3859704.6 |    155.40379 (15120819)    148.90971 (15120819)    142.59511 (19102618)
   151.92778 (18120603)    158.81000 (18120603)
 3859685.2 |    152.90323 (15120819)    146.95384 (15120819)    140.35257 (19102618)
   148.04023 (18120603)    155.48741 (18120603)
 3859665.8 |    148.18969 (15120819)    145.17937 (15120819)    138.08423 (19102618)
   144.21446 (18120603)    152.14034 (18120603)
 3859646.4 |    145.74498 (15120819)    143.21610 (15120819)    135.86503 (19102618)
   140.41401 (18120603)    148.77632 (18120603)
 3859626.9 |    143.56875 (15120819)    141.02192 (15120819)    133.49133 (19102618)
   136.51950 (18120603)    145.33362 (18120603)
 3859607.5 |    138.69750 (15120819)    137.04154 (15120819)    129.69873 (15120819)
   132.55398 (18120603)    141.87515 (18120603)
 3859588.1 |    142.08534 (15120819)    137.76437 (15120819)    129.85046 (15120819)
   129.36619 (19102618)    138.49782 (18120603)
 3859568.7 |    141.28353 (15120819)    136.92239 (15120819)    129.09810 (15120819)
   127.64138 (19102618)    135.13164 (18120603)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 402
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
```

, L0000175   ,

                                *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489623.26
 -
- -

 3859957.1 | 151.19026 (20030523)
 3859937.6 | 165.73516 (20030523)
 3859918.2 | 171.06848 (20030523)
 3859898.8 | 174.69331 (20030523)
 3859879.4 | 173.95051 (18120603)
 3859860.0 | 175.28361 (18120603)
 3859840.5 | 175.60426 (18120603)
 3859821.1 | 174.72421 (18120603)
 3859801.7 | 173.18891 (18120603)
 3859782.3 | 171.20874 (18120603)
 3859762.9 | 168.91368 (18120603)
 3859743.4 | 166.39639 (18120603)
 3859724.0 | 163.78941 (18120603)
 3859704.6 | 161.16519 (18120603)
 3859685.2 | 158.56153 (18120603)
 3859665.8 | 155.90451 (18120603)
 3859646.4 | 153.19986 (18120603)
 3859626.9 | 150.45351 (18120603)
 3859607.5 | 147.67095 (18120603)
 3859588.1 | 144.85721 (18120603)
 3859568.7 | 142.09142 (18120603)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                  INCLUDING SOURCE(S):   L0000149   , L0000150
, L0000151   , L0000152   , L0000153   ,
                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158
, L0000159   , L0000160   , L0000161   ,
                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166
, L0000167   , L0000168   , L0000169   ,

L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489260.34	489284.99	489309.64	489334.29	489358.94
3859173.4	104.53062 (16122922)	109.31355 (16122922)	112.12527 (20040918)	118.09548 (20040918)	120.63884 (20040918)
3859151.9	103.63454 (16122922)	107.77458 (16122922)	110.82397 (20040918)	116.77945 (20040918)	119.13732 (20040918)
3859130.3	102.62024 (16122922)	106.35313 (16122922)	109.64695 (20040918)	115.48582 (20040918)	117.66468 (20040918)
3859108.7	101.59350 (16122922)	105.08288 (16122922)	108.60201 (20040918)	114.33439 (20040918)	116.32712 (20040918)
3859087.1	100.63142 (16122922)	103.97724 (16122922)	107.57143 (20040918)	113.08005 (20040918)	114.90591 (20040918)
3859065.6	99.74279 (16122922)	102.80294 (16122922)	106.55497 (20040918)	111.95415 (20040918)	113.51112 (20040918)
3859044.0	98.92263 (16122922)	101.70354 (16122922)	105.65521 (20040918)	110.73704 (20040918)	112.23276 (20040918)
3859022.4	98.03377 (16122922)	100.54532 (16122922)	104.66295 (20040918)	109.53953 (20040918)	110.88556 (20040918)
3859000.9	97.26174 (16122922)	99.45282 (16122922)	103.68370 (20040918)	108.36121 (20040918)	109.56302 (20040918)
3858979.3	96.42142 (16122922)	98.36060 (16122922)	102.71724 (20040918)	107.20170 (20040918)	108.26457 (20040918)
3858957.7	95.48329 (16122922)	97.17861 (16122922)	101.85033 (20040918)	105.96896 (20040918)	106.91124 (20040918)
3858936.1	94.59681 (16122922)	96.05602 (16122922)	100.90639 (20040918)	104.93764 (20040918)	105.73753 (20040918)
3858914.6	93.71252 (16122922)	94.98646 (16122922)	100.05246 (20040918)	103.91377 (20040918)	104.50786 (20040918)
3858893.0	92.83074 (16122922)	93.91907 (16122922)	99.26883 (20040918)	102.89773 (20040918)	103.22976 (20040918)
3858871.4	91.90609 (16122922)	92.78665 (16122922)	98.35543 (20040918)	101.82201 (20040918)	102.17690 (20040918)
3858849.9	90.98395 (16122922)	91.70183 (16122922)	97.39085 (20040918)	100.76312 (20040918)	101.00884 (20040918)
3858828.3	90.16021 (16122922)	90.62720 (16122922)	96.50298 (20040918)	99.65302 (20040918)	99.86116 (20040918)
3858806.7	89.29225 (16122922)	89.80502 (20040918)	95.62661 (20040918)		

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489383.59	489408.24	489432.89	489457.54	489482.19
3859173.4	118.68777 (20040918)	112.66657 (20040918)	113.23891 (16020819)	113.78144 (16020819)	109.65888 (16020819)
3859151.9	117.09042 (20040918)	111.06509 (20040918)	111.77825 (16020819)	112.36742 (16020819)	108.42035 (16020819)
3859130.3	115.62004 (20040918)	109.49949 (20040918)	110.36321 (16020819)	110.98301 (16020819)	107.17203 (16020819)
3859108.7	114.08517 (20040918)	107.96865 (20040918)	108.97048 (16020819)	109.61906 (16020819)	105.94832 (16020819)
3859087.1	112.49571 (20040918)	106.52232 (20040918)	107.59846 (16020819)	108.27729 (16020819)	104.74862 (16020819)
3859065.6	111.10930 (20040918)	105.13644 (20040918)	106.25530 (16020819)	106.98997 (16020819)	103.60114 (16020819)

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 3859044.0 |    109.74048 (20040918)    103.72705 (20040918)    104.94001 (16020819)
   105.72524 (16020819)    102.44717 (16020819)
 3859022.4 |    108.32348 (20040918)    102.25232 (20040918)    103.64873 (16020819)
   104.47673 (16020819)    101.28682 (16020819)
 3859000.9 |    106.99783 (20040918)    100.90627 (20040918)    102.38799 (16020819)
   103.25311 (16020819)    100.20466 (16020819)
 3858979.3 |    105.68954 (20040918)     99.55562 (20040918)    101.15291 (16020819)
   102.06058 (16020819)     99.11493 (16020819)
 3858957.7 |    104.29701 (20040918)     98.23325 (20040918)     99.94274 (16020819)
   100.88848 (16020819)     98.04547 (16020819)
 3858936.1 |    103.03692 (20040918)     96.95955 (20040918)     98.75166 (16020819)
    99.72462 (16020819)     96.96796 (16020819)
 3858914.6 |    101.74929 (20040918)     95.68947 (20040918)     97.58752 (16020819)
    98.58141 (16020819)     95.93744 (16020819)
 3858893.0 |    100.44047 (20040918)     94.49855 (19122223)     96.44631 (16020819)
    97.47174 (16020819)     94.92557 (16020819)
 3858871.4 |     99.24805 (20040918)     93.39244 (19122223)     95.32744 (16020819)
    96.36650 (16020819)     93.90102 (16020819)
 3858849.9 |     98.07089 (20040918)     92.30822 (19122223)     94.21934 (16020819)
    95.27749 (16020819)     92.89093 (16020819)
 3858828.3 |     96.87690 (20040918)     91.25552 (19122223)     93.12765 (16020819)
    94.22873 (16020819)     91.93234 (16020819)
 3858806.7 |     95.73520 (20040918)     90.22009 (19122223)     92.05223 (16020819)
    93.17498 (16020819)     90.99042 (16020819)
 3858785.2 |     94.55536 (20040918)     89.19607 (19122223)     91.01522 (16020819)
    92.13646 (16020819)     89.98786 (16020819)
 3858763.6 |     93.42663 (20040918)     88.18573 (19122223)     89.99773 (16020819)
    91.14405 (16020819)     89.03533 (16020819)
 3858742.0 |     92.36403 (20040918)     87.20479 (19122223)     88.99921 (16020819)
    90.16945 (16020819)     88.14163 (16020819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 405
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                    *** NETWORK ID: UCART2   ;  NETWORK TYPE:
```

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	489506.84	489531.49	489556.14	489580.79	489605.44
3859173.4	108.62838 (15120819)	111.47253 (15120819)	110.25995 (15120819)	105.68183 (15120819)	97.65596 (15120819)
3859151.9	106.99448 (15120819)	109.98744 (15120819)	109.17622 (15120819)	104.74914 (15120819)	97.01384 (15120819)
3859130.3	105.39063 (15120819)	108.44250 (15120819)	107.94595 (15120819)	103.76256 (15120819)	96.41758 (15120819)
3859108.7	103.81616 (15120819)	107.00342 (15120819)	106.65460 (15120819)	102.83374 (15120819)	95.87534 (15120819)
3859087.1	102.01843 (15120819)	105.50387 (15120819)	105.37365 (15120819)	101.96294 (15120819)	95.29312 (15120819)
3859065.6	100.51024 (15120819)	104.02569 (15120819)	104.25809 (15120819)	101.03932 (15120819)	94.70284 (15120819)
3859044.0	99.11112 (15120819)	102.56882 (15120819)	103.07833 (15120819)	100.11884 (15120819)	94.08454 (15120819)
3859022.4	97.65363 (15120819)	101.30383 (15120819)	101.76220 (15120819)	99.20174 (15120819)	93.46076 (15120819)
3859000.9	96.29412 (15120819)	99.97317 (15120819)	100.61006 (15120819)	98.28825 (15120819)	92.83199 (15120819)
3858979.3	94.88557 (15120819)	98.73685 (15120819)	99.54361 (15120819)	97.32473 (15120819)	92.17255 (15120819)
3858957.7	93.43595 (15120819)	97.44317 (15120819)	98.54643 (15120819)	96.36257 (15120819)	91.50440 (15120819)
3858936.1	92.07979 (15120819)	96.16864 (15120819)	97.42653 (15120819)	95.57176 (15120819)	90.89331 (15120819)
3858914.6	90.68333 (15120819)	94.84522 (15120819)	96.31879 (15120819)	94.76843 (15120819)	90.27634 (15120819)
3858893.0	89.31232 (15120819)	93.61027 (15120819)	95.16335 (15120819)	93.87517 (15120819)	89.67459 (15120819)
3858871.4	88.20854 (15120819)	92.51685 (15120819)	94.13936 (15120819)	92.98663 (15120819)	89.04369 (15120819)
3858849.9	87.20373 (16020819)	91.31389 (15120819)	93.06753 (15120819)	92.10301 (15120819)	88.37478 (15120819)
3858828.3	86.38942 (16020819)	90.18097 (15120819)	92.00751 (15120819)	91.18216 (15120819)	87.72193 (15120819)
3858806.7	85.53279 (16020819)	89.05830 (15120819)	91.00966 (15120819)	90.30962 (15120819)	87.06749 (15120819)
3858785.2	84.68679 (16020819)	87.94607 (15120819)	90.05995 (15120819)	89.52111 (15120819)	86.43072 (15120819)
3858763.6	83.85117 (16020819)	86.84398 (15120819)	89.06897 (15120819)		

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489630.09	489654.74	489679.39	489704.04	489728.69
3859173.4	98.61887 (19102618)	99.18839 (18120603)	107.30490 (18120603)	111.64965 (18120603)	111.75805 (18120603)
3859151.9	97.39008 (19102618)	96.55191 (18120603)	104.97565 (18120603)	109.81835 (18120603)	110.56968 (18120603)
3859130.3	96.14121 (19102618)	94.53457 (19102618)	102.60872 (18120603)	107.93368 (18120603)	109.30219 (18120603)
3859108.7	94.88012 (19102618)	93.65170 (19102618)	100.22363 (18120603)	106.02695 (18120603)	107.92825 (18120603)
3859087.1	93.60288 (19102618)	92.77560 (19102618)	97.86028 (18120603)	104.05559 (18120603)	106.54852 (18120603)
3859065.6	92.31306 (19102618)	91.85709 (19102618)	95.45812 (18120603)	102.07731 (18120603)	105.10623 (18120603)
3859044.0	91.02461 (19102618)	90.93486 (19102618)	93.05089 (18120603)	100.03791 (18120603)	103.57187 (18120603)
3859022.4	89.71695 (19102618)	89.97196 (19102618)	90.64265 (18120603)	97.96873 (18120603)	101.98120 (18120603)

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 3859000.9 |     88.41703 (19102618)     89.01002 (19102618)     88.23740 (18120603)
    95.82797 (18120603)    100.29261 (18120603)
 3858979.3 |     87.11351 (19102618)     88.00891 (19102618)     85.83867 (18120603)
    93.70784 (18120603)     98.59860 (18120603)
 3858957.7 |     85.79085 (19102618)     87.01313 (19102618)     85.07617 (19102618)
    91.67783 (18120603)     96.96386 (18120603)
 3858936.1 |     84.48331 (19102618)     86.00233 (19102618)     84.39176 (19102618)
    89.53652 (18120603)     95.19459 (18120603)
 3858914.6 |     83.31412 (15120819)     84.95518 (19102618)     83.71853 (19102618)
    87.38581 (18120603)     93.39004 (18120603)
 3858893.0 |     82.93301 (15120819)     83.91885 (19102618)     83.02066 (19102618)
    85.29087 (18120603)     91.55436 (18120603)
 3858871.4 |     82.54302 (15120819)     82.84649 (19102618)     82.29969 (19102618)
    83.19890 (18120603)     89.69154 (18120603)
 3858849.9 |     82.14576 (15120819)     81.76198 (19102618)     81.52315 (19102618)
    81.04940 (18120603)     87.86980 (18120603)
 3858828.3 |     81.74052 (15120819)     80.69667 (19102618)     80.76120 (19102618)
    78.97163 (18120603)     86.03233 (18120603)
 3858806.7 |     81.32442 (15120819)     79.59393 (19102618)     79.98023 (19102618)
    77.58040 (19102618)     84.18275 (18120603)
 3858785.2 |     80.90626 (15120819)     78.44745 (19102618)     79.14736 (19102618)
    77.01840 (19102618)     82.25880 (18120603)
 3858763.6 |     80.48132 (15120819)     77.36322 (19102618)     78.29683 (19102618)
    76.47573 (19102618)     80.32538 (18120603)
 3858742.0 |     80.05071 (15120819)     76.34210 (19102618)     77.50329 (19102618)
    76.04631 (19102618)     78.38574 (18120603)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 407
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                  INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
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```
  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489753.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 3859173.4 |    107.50142 (18120603)
 3859151.9 |    107.01879 (18120603)
 3859130.3 |    106.43921 (18120603)
 3859108.7 |    105.71947 (18120603)
 3859087.1 |    105.04759 (18120603)
 3859065.6 |    104.24288 (18120603)
 3859044.0 |    103.31647 (18120603)
 3859022.4 |    102.31219 (18120603)
 3859000.9 |    101.23383 (18120603)
 3858979.3 |    100.08539 (18120603)
 3858957.7 |     98.81659 (18120603)
 3858936.1 |     97.53678 (18120603)
 3858914.6 |     96.19853 (18120603)
 3858893.0 |     94.86821 (18120603)
 3858871.4 |     93.42781 (18120603)
 3858849.9 |     92.00532 (18120603)
 3858828.3 |     90.47842 (18120603)
 3858806.7 |     89.04305 (18120603)
 3858785.2 |     87.51104 (18120603)
 3858763.6 |     85.88640 (18120603)
 3858742.0 |     84.23324 (18120603)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                  INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                   *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

Y-COORD (METERS)	X-COORD (METERS)				
	488584.66	488614.48	488644.30	488674.12	488703.94
3858905.0	69.80192 (20090924)	70.39955 (15013017)	71.85379 (15013017)	76.21724 (20040923)	81.87328 (16020520)
3858880.0	67.87167 (20090924)	70.38802 (15013017)	72.18500 (20040923)	75.93200 (20040923)	83.70259 (16020520)
3858855.1	67.78423 (15013017)	69.41965 (15013017)	74.06222 (20040923)	79.01780 (16020520)	83.52567 (16020520)
3858830.2	67.97886 (15013017)	68.27848 (15013017)	76.07114 (20040923)	80.73124 (16020520)	82.83311 (16012217)
3858805.3	70.72326 (15013017)	73.46807 (20040923)	75.82162 (20040923)	79.84264 (16020520)	83.01933 (16012217)
3858780.3	67.59878 (15013017)	70.60652 (20040923)	75.13845 (20040923)	79.62994 (16020520)	83.76992 (16012217)
3858755.4	66.28594 (15013017)	69.28137 (20040923)	75.44987 (16020520)	79.17458 (16020520)	83.63011 (16012217)
3858730.5	65.73046 (20040923)	70.68217 (20040923)	75.74350 (16020520)	78.93962 (16012217)	83.08242 (16012217)
3858705.5	67.39791 (20040923)	70.31078 (20040923)	75.81178 (16020520)	79.33456 (16012217)	82.46834 (16012217)
3858680.6	67.82505 (20040923)	70.50459 (16020520)	76.15138 (16020520)	79.97578 (16012217)	82.28101 (16012217)
3858655.7	69.25252 (20040923)	72.06649 (16020520)	75.12128 (16020520)	79.61634 (16012217)	81.23625 (16012217)
3858630.8	69.45601 (20040923)	72.55629 (16020520)	75.76496 (16012217)	79.34994 (16012217)	80.14507 (16012217)
3858605.8	69.53981 (16020520)	72.83199 (16020520)	76.21644 (16012217)	78.87241 (16012217)	78.86279 (16012217)
3858580.9	70.13250 (16020520)	72.73828 (16020520)	76.46050 (16012217)	78.19127 (16012217)	77.53382 (16012217)
3858556.0	69.95357 (16020520)	72.52614 (16012217)	76.35213 (16012217)	77.45917 (16012217)	75.90130 (16012217)
3858531.0	70.44116 (16020520)	73.21398 (16012217)	76.04265 (16012217)	76.39288 (16012217)	74.11895 (16012217)
3858506.1	70.29955 (16020520)	73.43922 (16012217)	75.81474 (16012217)	75.40669 (16012217)	72.40192 (16012217)
3858481.2	70.10349 (16020520)	73.60380 (16012217)	75.37312 (16012217)	74.10486 (16012217)	71.46841 (20122517)
3858456.2	70.44820 (16012217)	73.70052 (16012217)	74.48232 (16012217)	72.52858 (16012217)	70.39063 (20122517)
3858431.3	70.90621 (16012217)	73.47140 (16012217)	73.41823 (16012217)	70.81483 (16012217)	69.19508 (20122517)
3858406.4	70.94396 (16012217)	72.93282 (16012217)	71.96642 (16012217)	68.96492 (20122517)	67.89073 (20122517)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 488733.76	488763.58	488793.40	488823.22	488853.04
3858905.0	87.50127 (16012217)	92.72781 (16012217)	92.97917 (16012217)	89.93885 (16012217)	87.29624 (20122517)
3858880.0	88.50950 (16012217)	91.74934 (16012217)	91.42432 (16012217)	86.92049 (16012217)	84.85539 (20122517)
3858855.1	88.76959 (16012217)	89.82131 (16012217)	89.20249 (16012217)	85.55976 (20122517)	82.46906 (20122517)
3858830.2	87.48060 (16012217)	88.84995 (16012217)	86.80309 (16012217)	83.75465 (20122517)	79.99097 (20122517)
3858805.3	87.06553 (16012217)	87.62913 (16012217)	84.64603 (16012217)	81.98704 (20122517)	80.15834 (18122220)
3858780.3	86.56900 (16012217)	86.17134 (16012217)	82.58291 (20122517)	80.24115 (20122517)	80.72378 (18122220)
3858755.4	85.82354 (16012217)	84.35582 (16012217)	81.23318 (20122517)	78.35077 (20122517)	80.76965 (18122220)
3858730.5	84.38361 (16012217)	82.22864 (16012217)	79.57018 (20122517)	76.20277 (20122517)	80.41880 (18122220)
3858705.5	82.74651 (16012217)	79.95525 (16012217)	77.94293 (20122517)	75.49244 (18122220)	80.04457 (18122220)
3858680.6	81.37812 (16012217)	77.85551 (20122517)	76.04447 (20122517)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	488882.86	488912.68	488942.50
3858655.7	79.80919 (16012217)	76.80545 (20122517)	74.33044 (20122517)
	75.65999 (18122220)	79.91044 (18122220)	
	75.80799 (18122220)	79.26725 (18122220)	
3858630.8	77.93317 (16012217)	75.44371 (20122517)	72.37116 (20122517)
	75.82219 (18122220)	78.61882 (18122220)	
3858605.8	75.90911 (16012217)	73.95718 (20122517)	71.21999 (18122220)
	75.82565 (18122220)	77.96292 (18122220)	
3858580.9	74.53779 (20122517)	72.49699 (20122517)	71.58145 (18122220)
	75.81126 (18122220)	77.17976 (18122220)	
3858556.0	73.54472 (20122517)	71.16092 (20122517)	72.02864 (18122220)
	75.43820 (18122220)	76.06827 (18122220)	
3858531.0	72.12292 (20122517)	69.43976 (20122517)	72.03819 (18122220)
	74.83273 (18122220)	74.85947 (18122220)	
3858506.1	71.00626 (20122517)	67.41731 (20122517)	72.13488 (18122220)
	74.33191 (18122220)	73.75877 (18122220)	
3858481.2	69.62020 (20122517)	67.90525 (18122220)	72.10846 (18122220)
	73.71098 (18122220)	72.72511 (18122220)	
3858456.2	68.11830 (20122517)	68.30834 (18122220)	71.95996 (18122220)
	72.97406 (18122220)	71.48167 (18122220)	
3858431.3	66.30628 (20122517)	68.50566 (18122220)	71.78350 (18122220)
	72.12586 (18122220)	69.86682 (18122220)	
3858406.4	64.62536 (20122517)	68.58877 (18122220)	71.30456 (18122220)
	71.17145 (18122220)	68.33272 (18122220)	

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      488972.32              489002.14
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489031.96	489061.78	489091.60	489121.42	489151.24
3858905.0	89.52301 (18010221)	93.46540 (18010221)	93.15560 (18010221)	91.23079 (19011424)	92.32938 (19011424)
3858880.0	89.18239 (18010221)	92.45207 (18010221)	91.51077 (18010221)	90.40819 (19011424)	91.05885 (19011424)
3858855.1	88.64747 (18010221)	91.26454 (18010221)	89.82189 (18010221)	89.60177 (19011424)	89.69089 (19011424)
3858830.2	88.13613 (18010221)	90.11630 (18010221)	88.23353 (18010221)	88.79751 (19011424)	88.20693 (19011424)
3858805.3	87.64854 (18010221)	89.09239 (18010221)	86.33289 (18010221)	87.72347 (19011424)	86.82231 (19011424)
3858780.3	87.17222 (18010221)	87.90016 (18010221)	84.60311 (18010221)	86.72306 (19011424)	85.30479 (19011424)
3858755.4	86.51360 (18010221)	86.64272 (18010221)	83.61747 (19011424)	85.73750 (19011424)	83.83726 (19011424)
3858730.5	85.60531 (18010221)	85.32447 (18010221)	83.09900 (19011424)	84.70976 (19011424)	82.34750 (19011424)
3858705.5	84.63221 (18010221)	83.75780 (18010221)	82.38112 (19011424)	83.64277 (19011424)	80.83858 (19011424)
3858680.6	83.68729 (18010221)	82.15617 (18010221)	81.54978 (19011424)	82.42249 (19011424)	79.24747 (19011424)
3858655.7	82.68379 (18010221)	80.78981 (18010221)	80.91061 (19011424)	81.17355 (19011424)	77.69298 (19011424)
3858630.8	81.62560 (18010221)	79.25711 (18010221)	80.22537 (19011424)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)
489181.06	
3858905.0	88.89019 (19011424)

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 3858880.0 |     87.04871 (19011424)
 3858855.1 |     85.67103 (20022718)
 3858830.2 |     84.55875 (20022718)
 3858805.3 |     83.43402 (20022718)
 3858780.3 |     82.20217 (20022718)
 3858755.4 |     80.87528 (20022718)
 3858730.5 |     79.74198 (20022718)
 3858705.5 |     78.60167 (20022718)
 3858680.6 |     77.37580 (20022718)
 3858655.7 |     76.07564 (20022718)
 3858630.8 |     74.70435 (20022718)
 3858605.8 |     73.50544 (20022718)
 3858580.9 |     72.38750 (20022718)
 3858556.0 |     71.12924 (20022718)
 3858531.0 |     70.02040 (20022718)
 3858506.1 |     68.84980 (20022718)
 3858481.2 |     68.04363 (16122922)
 3858456.2 |     67.76325 (16122922)
 3858431.3 |     67.47258 (16122922)
 3858406.4 |     67.16135 (16122922)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 413
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                  INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                   *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489386.10              489460.62              489535.14
      489609.66              489684.18
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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 3861675.8 |    136.12159 (19121703)    144.79462 (20021406)    146.32010 (19010903)
   143.42085 (16122202)    142.26553 (19121118)
 3861650.6 |    141.32644 (19121703)    149.42628 (20021406)    152.44693 (19010903)
   150.03318 (16122202)    147.39927 (19121118)
 3861625.5 |    146.60517 (19121703)    153.55141 (20021406)    157.11386 (19010903)
   155.22220 (16122202)    152.86701 (18120822)
 3861600.3 |    151.69762 (19121703)    160.37510 (20021406)    161.60171 (19010903)
   161.10851 (19123008)    159.30359 (18120822)
 3861575.2 |    160.64587 (19121703)    165.20549 (20021406)    166.32509 (16020722)
   166.98424 (19123008)    165.42738 (19122119)
 3861550.1 |    166.74659 (19121703)    170.81089 (20021406)    174.22427 (16020722)
   172.01793 (19123008)    170.51142 (19122119)
 3861524.9 |    172.28319 (19121703)    177.30202 (20021406)    181.75988 (16020722)
   176.06147 (19123008)    175.94559 (19122119)
 3861499.8 |    178.06176 (19121703)    183.51704 (20021406)    188.79851 (16020722)
   182.87485 (19121118)    182.38030 (19122119)
 3861474.6 |    184.09294 (19121703)    189.71013 (20021406)    195.89623 (16020722)
   191.32226 (19121118)    191.18266 (19010320)
 3861449.5 |    189.69127 (19121703)    196.20789 (20021406)    203.03475 (16020722)
   198.84942 (18120822)    196.23647 (19010320)
 3861424.4 |    196.22380 (19121703)    203.41788 (20021406)    209.81159 (16020722)
   206.58967 (18120822)    202.64732 (19122222)
 3861399.2 |    203.86594 (15102420)    210.21689 (20021406)    216.15733 (16020722)
   214.73947 (18120822)    211.98222 (16122718)
 3861374.1 |    212.28599 (15102420)    216.93735 (20021406)    223.29114 (16020722)
   223.30996 (19122119)    229.35074 (16122718)
 3861348.9 |    221.16110 (15102420)    226.61165 (19010903)    230.45525 (16020722)
   234.04988 (19122119)    243.67740 (16122718)
 3861323.8 |    230.51977 (15102420)    238.53149 (18010302)    241.40936 (15010520)
   243.61578 (19122119)    257.03912 (20010318)
 3861298.7 |    240.86336 (15102420)    250.64928 (18010302)    252.60952 (15010520)
   254.63420 (19010320)    271.86679 (20010318)
 3861273.5 |    252.82625 (15102420)    262.81789 (18010302)    262.88269 (15010520)
   267.73459 (19122222)    281.59677 (20022002)
 3861248.4 |    268.86907 (16111921)    276.68985 (18010302)    275.29022 (18120822)
   284.87145 (16122718)    288.52088 (19022504)
 3861223.2 |    286.90082 (16111921)    293.27484 (18010302)    290.68107 (18120822)
   306.81327 (20010318)    309.91738 (16122308)
 3861198.1 |    306.28819 (16111921)    311.93277 (18010302)    307.16836 (18120822)
   328.57657 (20010318)    335.23980 (16122308)
 3861173.0 |    327.30149 (16122819)    332.41775 (18010302)    322.44214 (18120822)
   348.41002 (20010318)    352.13950 (16122308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 414
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	489758.70	489833.22	489907.74	489982.26	490056.78
3861675.8	139.09374 (19122119)	136.33263 (16122718)	144.44755 (19122908)	136.86451 (19022504)	134.85635 (16122308)
3861650.6	144.80663 (19010320)	146.40641 (16122718)	150.67002 (19122908)	142.00672 (19022504)	138.52522 (16122308)
3861625.5	151.09020 (19010320)	155.77037 (16122718)	155.28989 (19122908)	146.67059 (16010323)	140.81407 (16122308)
3861600.3	158.11335 (19010320)	164.88010 (16122718)	155.70629 (19122908)	153.02247 (16010323)	144.32213 (16122222)
3861575.2	160.56359 (19122222)	170.16247 (16122718)	160.34978 (19022504)	161.57528 (16122308)	149.57838 (16122222)
3861550.1	164.41304 (16122118)	175.04161 (19122908)	168.68523 (19022504)	166.03423 (16122308)	154.79241 (16011801)
3861524.9	174.44446 (16122718)	180.82814 (19122908)	173.95029 (16010323)	165.84479 (16122308)	157.81381 (16011801)
3861499.8	185.76965 (16122718)	184.18376 (19122908)	180.71554 (16122308)	172.35709 (16122222)	162.90300 (18121521)
3861474.6	195.91992 (16122718)	187.16605 (19022504)	189.70427 (16122308)	182.64291 (16011801)	169.28361 (16022523)
3861449.5	205.22564 (16122718)	198.77991 (19022504)	194.52068 (16122308)	183.04797 (16011801)	173.28940 (16022523)
3861424.4	213.39337 (20010318)	207.73117 (16010323)	199.32793 (16122222)	187.40657 (18121521)	175.92271 (19120601)
3861399.2	222.01646 (20022002)	220.04912 (16122308)	207.77732 (16011801)	195.59161 (16022523)	183.22314 (19120601)
3861374.1	227.08775 (20022002)	231.43999 (16122308)	211.86559 (16011801)	199.54328 (16022523)	185.18717 (16021120)

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING1 ***
                                  INCLUDING SOURCE(S):   L0000149   , L0000150
, L0000151   , L0000152   , L0000153   ,
                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158
, L0000159   , L0000160   , L0000161   ,
                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166
, L0000167   , L0000168   , L0000169   ,
                  L0000170   , L0000171   , L0000172   , L0000173   , L0000174
, L0000175   ,

                                   *** NETWORK ID: UCART4   ; NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 490131.30   490205.82   490280.34
      490354.86   490429.38
 -
- -

 3861675.8 | 126.50935 (16122222)   117.54368 (16011801)   114.69374 (16022523)
   108.03000 (19120601)   100.13099 (19120601)
 3861650.6 | 130.03690 (16011801)   121.62521 (18121521)   117.98466 (16022523)

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   111.02329 (19120601)    104.63547 (16021120)
 3861625.5 |    135.06895 (16011801)    128.01370 (16022523)    120.66171 (19120601)
   112.60855 (19120601)    108.81091 (16021120)
 3861600.3 |    137.94902 (16011801)    134.92200 (16022523)    127.80481 (19120601)
   119.14297 (16021120)    113.04813 (18011823)
 3861575.2 |    140.83734 (18121521)    136.16171 (16022523)    129.65511 (19120601)
   122.67588 (16021120)    116.09056 (18011823)
 3861550.1 |    148.61490 (16022523)    139.91518 (19120601)    130.95912 (16021120)
   123.23595 (16021120)    118.36092 (15120519)
 3861524.9 |    153.44416 (16022523)    144.28281 (19120601)    137.38082 (16021120)
   129.09172 (18011823)    123.92357 (18020819)
 3861499.8 |    152.48943 (16022523)    145.53389 (19120601)    140.44470 (16021120)
   131.66427 (15120519)    139.56715 (18020819)
 3861474.6 |    160.11738 (19120601)    154.51426 (16021120)    146.11277 (18011823)
   140.29581 (18020819)    152.06890 (18020819)
 3861449.5 |    167.11759 (19120601)    159.23543 (16021120)    146.67451 (15120519)
   156.45722 (18020819)    156.62285 (18020819)
 3861424.4 |    168.48210 (16021120)    162.41150 (18011823)    159.00200 (18020819)
   167.52687 (18020819)    154.28945 (18020819)
 3861399.2 |    173.89970 (16021120)    163.17073 (15120519)    176.84034 (18020819)
   170.87342 (18020819)    158.34564 (15011619)
 3861374.1 |    177.40544 (18011823)    180.02876 (18020819)    187.21900 (18020819)
   167.29948 (15011619)    161.18146 (15011619)
 3861348.9 |    181.58441 (15120519)    202.11113 (18020819)    188.32164 (18020819)
   175.75175 (15011619)    162.79141 (18011122)
 3861323.8 |    203.13790 (18020819)    210.25290 (18020819)    191.20196 (15011619)
   179.58390 (18011122)    162.04258 (19020204)
 3861298.7 |    228.86829 (18020819)    207.45402 (18020819)    196.56884 (15011619)
   178.37657 (18020124)    161.75439 (19020204)
 3861273.5 |    236.36572 (18020819)    217.63610 (15011619)    198.83525 (18011122)
   178.73058 (19020204)    171.65621 (18022523)
 3861248.4 |    236.21620 (15011619)    222.48117 (18011122)    198.51514 (19020204)
   185.16052 (18022523)    175.77050 (18011721)
 3861223.2 |    246.12780 (18011122)    220.79741 (18020124)    203.79955 (18022523)
   192.91405 (18011721)    177.89344 (18011522)
 3861198.1 |    248.99263 (18011122)    222.87479 (18022523)    217.61541 (18011721)
   195.88567 (18011522)    179.86228 (20120318)
 3861173.0 |    248.67232 (19020204)    240.25374 (18022523)    219.57779 (18011522)
   197.55102 (20120318)    186.08958 (18120708)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 416
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
```

```
, L0000151    , L0000152    , L0000153    ,
                L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       490503.90              490578.42              490652.94
      490727.46              490801.98
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |     98.36144 (16021120)     93.74914 (18011823)     87.96494 (15120519)
   101.81837 (18020819)    102.52542 (18020819)
 3861650.6 |     99.17137 (18011823)     95.53943 (19022404)    100.89864 (18020819)
   109.83819 (18020819)    104.68531 (18020819)
 3861625.5 |    103.04622 (18011823)     98.37935 (18020819)    112.54379 (18020819)
   112.52824 (18020819)    102.11917 (18020819)
 3861600.3 |    107.17353 (19022404)    112.91999 (18020819)    118.82575 (18020819)
   111.71889 (18020819)    105.60391 (15011619)
 3861575.2 |    110.56300 (18020819)    123.85866 (18020819)    121.23480 (18020819)
   109.55549 (15011619)    108.65824 (15011619)
 3861550.1 |    124.84174 (18020819)    129.94538 (18020819)    119.34151 (18020819)
   114.98565 (15011619)    109.86405 (18011122)
 3861524.9 |    135.80446 (18020819)    131.30437 (18020819)    121.18612 (15011619)
   116.99701 (15011619)    109.87468 (18011122)
 3861499.8 |    141.60253 (18020819)    127.35800 (18020819)    125.53697 (15011619)
   118.68302 (18011122)    110.17857 (18020124)
 3861474.6 |    141.87275 (18020819)    133.50125 (15011619)    127.01147 (18011122)
   117.94119 (18020124)    111.11406 (19020204)
 3861449.5 |    142.07048 (15011619)    136.11783 (15011619)    126.66020 (18011122)
   118.57636 (19020204)    109.19745 (15123001)
 3861424.4 |    147.12304 (15011619)    138.04674 (18011122)    126.67802 (19020204)
   116.05792 (19020204)    114.10455 (18011721)
 3861399.2 |    148.94810 (18011122)    136.90940 (18020124)    125.99916 (19020204)
   121.39019 (18011721)    117.08807 (18011721)
 3861374.1 |    148.32856 (18020124)    137.41997 (19020204)    128.61427 (18022523)
   125.98104 (18011721)    118.05252 (18011522)
 3861348.9 |    149.10282 (19020204)    137.88969 (15123001)    134.71329 (18011721)
   126.57891 (18011522)    117.03478 (18011522)
 3861323.8 |    148.14391 (15123001)    145.01750 (18011721)    136.15454 (18011522)
   125.48543 (18011522)    116.14894 (20120318)
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 3861298.7 |    157.26076 (18011721)    148.30880 (18011522)    135.40846 (18011522)
   126.25041 (20120318)    122.10531 (20120318)
 3861273.5 |    160.23624 (18011522)    147.83811 (18011522)    135.30801 (20120318)
   130.81217 (20120318)    126.60841 (18120708)
 3861248.4 |    161.46646 (18011522)    149.49783 (20120318)    140.58562 (20120318)
   136.39325 (18120708)    133.08029 (18120708)
 3861223.2 |    162.63299 (20120318)    156.45195 (20120318)    148.44900 (18120708)
   142.38508 (18120708)    133.22772 (18120708)
 3861198.1 |    169.67941 (20120318)    166.03658 (18120708)    153.95070 (18120708)
   140.77910 (18120708)    127.22527 (15020502)
 3861173.0 |    182.20252 (18120708)    169.19546 (18120708)    150.48466 (18120708)
   136.15595 (16122023)    130.46125 (15020408)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 417
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                  INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                   *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       490876.50
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |     95.60872 (18020819)
 3861650.6 |     96.80575 (15011619)
 3861625.5 |    100.65292 (15011619)
 3861600.3 |    101.37299 (15011619)
 3861575.2 |    102.68114 (18011122)
 3861550.1 |    102.15421 (18020124)
 3861524.9 |    102.27828 (19020204)
 3861499.8 |    102.36792 (19020204)
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 3861474.6 |    103.13444 (15123001)
 3861449.5 |    107.68023 (18011721)
 3861424.4 |    109.25077 (18011721)
 3861399.2 |    110.28020 (18011522)
 3861374.1 |    108.92520 (18011522)
 3861348.9 |    108.26207 (20120318)
 3861323.8 |    113.00854 (20120318)
 3861298.7 |    116.06300 (18120708)
 3861273.5 |    122.37489 (18120708)
 3861248.4 |    123.67386 (18120708)
 3861223.2 |    119.34331 (18120708)
 3861198.1 |    119.94401 (15020408)
 3861173.0 |    122.04978 (15020408)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                    *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       491611.20              491641.99              491672.78
      491703.57              491734.36
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3861693.5 |     63.89428 (18011721)     62.89167 (18011522)     62.29311 (18011522)
    60.93240 (18011522)     59.54216 (18011522)
 3861664.1 |     64.31347 (18011522)     63.07002 (18011522)     61.43200 (18011522)
    59.78704 (18011522)     58.51032 (16123005)
 3861634.6 |     63.49163 (18011522)     61.84953 (16123005)     60.59984 (16123005)
    59.24200 (16123005)     57.73629 (18120921)
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 3861605.2 |     62.63527 (16123005)     61.16212 (18120921)     60.49947 (20120318)
    60.30404 (20120318)     60.02775 (20120318)
 3861575.7 |     63.78416 (20120318)     63.40759 (20120318)     62.71115 (20120318)
    61.95010 (20120318)     60.90707 (20120318)
 3861546.3 |     65.47886 (20120318)     64.49588 (20120318)     63.10272 (20120318)
    62.54160 (19020808)     62.00367 (18120708)
 3861516.8 |     66.33834 (19020808)     66.03121 (18120708)     65.94356 (18120708)
    65.59404 (18120708)     65.12843 (18120708)
 3861487.4 |     69.71777 (18120708)     69.17585 (18120708)     68.44533 (18120708)
    67.40621 (18120708)     66.21774 (18120708)
 3861457.9 |     71.27781 (18120708)     69.93745 (18120708)     68.45397 (18120708)
    66.84658 (18120708)     65.13380 (18120708)
 3861428.5 |     70.46858 (18120708)     68.33838 (18120708)     66.33784 (18120708)
    64.28102 (15020502)     62.90424 (15020502)
 3861399.0 |     67.90246 (15020502)     66.12631 (15020502)     65.08101 (16122023)
    63.96860 (16122023)     62.88793 (16122023)
 3861369.6 |     67.91106 (15020408)     67.24904 (15020408)     66.59365 (15020408)
    65.68857 (15020408)     64.74412 (15020408)
 3861340.1 |     69.78790 (15020408)     68.54617 (15020408)     67.21285 (15020408)
    65.80055 (15020408)     64.32125 (15020408)
 3861310.7 |     68.98736 (15020408)     67.11690 (15020408)     65.27330 (15020408)
    63.39766 (15020408)     61.50055 (15020408)
 3861281.2 |     66.88528 (19022503)     65.97393 (19022503)     64.99118 (19022503)
    64.07362 (19022503)     63.03219 (19022503)
 3861251.8 |     68.02387 (19022503)     66.58765 (19022503)     65.11563 (19022503)
    64.02316 (16120801)     63.04362 (16120801)
 3861222.3 |     68.41296 (16120801)     67.12063 (16120801)     65.80448 (16120801)
    64.90061 (18120821)     64.09614 (18120821)
 3861192.9 |     69.90748 (18120821)     68.78128 (18120821)     67.69672 (18120821)
    66.52170 (18120821)     65.20192 (18120821)
 3861163.4 |     72.21665 (20120308)     71.65652 (20120308)     71.21133 (20120308)
    70.42860 (20120308)     69.47501 (20120308)
 3861134.0 |     76.73846 (20120308)     76.08053 (20120308)     75.14911 (20120308)
    73.96580 (20120308)     72.62620 (20120308)
 3861104.5 |     78.75165 (20120308)     77.55846 (20120308)     76.19857 (20120308)
    74.76748 (20120308)     73.27358 (20120308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 419
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
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L0000162 , L0000163 , L0000164 , L0000165 , L0000166
, L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174
, L0000175 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	491765.15	491795.94	491826.73	491857.52	491888.31
3861693.5	57.97269 (18011522)	56.40665 (18011522)	55.55561 (16123005)	54.56589 (16123005)	53.19518 (16123005)
3861664.1	57.37193 (16123005)	56.03270 (16123005)	54.56582 (18120921)	54.18137 (20120318)	54.08008 (20120318)
3861634.6	57.14386 (20120318)	57.18134 (20120318)	56.73442 (20120318)	56.07934 (20120318)	55.38019 (20120318)
3861605.2	59.35126 (20120318)	58.67424 (20120318)	57.74028 (20120318)	56.67324 (20120318)	55.96403 (19020808)
3861575.7	59.77301 (20120318)	59.18918 (19020808)	58.58121 (19020808)	58.35123 (18120708)	58.37233 (18120708)
3861546.3	62.00275 (18120708)	61.94659 (18120708)	61.54139 (18120708)	61.09987 (18120708)	60.45417 (18120708)
3861516.8	64.42887 (18120708)	63.63837 (18120708)	62.76696 (18120708)	61.70463 (18120708)	60.70213 (18120708)
3861487.4	64.89690 (18120708)	63.52314 (18120708)	62.04589 (18120708)	60.48050 (18120708)	58.95496 (18120708)
3861457.9	63.27010 (18120708)	61.40095 (18120708)	59.77974 (15020502)	58.54480 (15020502)	57.23638 (15020502)
3861428.5	61.44283 (15020502)	60.46137 (16122023)	59.54445 (16122023)	58.49340 (16122023)	57.87161 (15020408)
3861399.0	62.39514 (15020408)	61.74434 (15020408)	60.99214 (15020408)	60.20495 (15020408)	59.33251 (15020408)
3861369.6	63.76693 (15020408)	62.58232 (15020408)	61.38613 (15020408)	60.12646 (15020408)	58.86787 (15020408)
3861340.1	62.78624 (15020408)	61.20606 (15020408)	59.70440 (15020408)	57.94876 (15020408)	56.45520 (19022503)
3861310.7	60.87753 (19022503)	60.17849 (19022503)	59.47311 (19022503)	58.59633 (19022503)	57.83501 (19022503)
3861281.2	61.94005 (19022503)	60.80425 (19022503)	59.63145 (19022503)	58.48368 (19022503)	57.62005 (16120801)
3861251.8	62.08873 (16120801)	61.10142 (16120801)	60.14271 (16120801)	59.10300 (16120801)	58.18895 (18120821)
3861222.3	63.19394 (18120821)	62.32308 (18120821)	61.48350 (18120821)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	491919.10	491949.89	491980.68	492011.47	492042.26
3861693.5	51.40354 (18120921)	51.28451 (20120318)	51.15510 (20120318)	50.88661 (20120318)	50.48734 (20120318)
3861664.1	53.68065 (20120318)	53.23279 (20120318)	52.78799 (20120318)	52.12387 (20120318)	51.30094 (20120318)
3861634.6	54.64415 (20120318)	53.82963 (20120318)	53.10244 (19020808)	52.81821 (19020808)	52.34310 (19020808)
3861605.2	55.50711 (19020808)	55.17034 (18120708)	55.14938 (18120708)	54.99068 (18120708)	54.80195 (18120708)
3861575.7	58.07433 (18120708)	57.68977 (18120708)	57.27913 (18120708)	56.58432 (18120708)	56.03464 (18120708)

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 3861546.3 |     59.67579 (18120708)     58.77666 (18120708)     57.76870 (18120708)
    56.87290 (18120708)     55.62588 (18120708)
 3861516.8 |     59.41993 (18120708)     57.99574 (18120708)     56.50049 (18120708)
    55.25244 (18120708)     53.68996 (18120708)
 3861487.4 |     57.30677 (18120708)     55.98386 (15020502)     54.81544 (15020502)
    53.68150 (15020502)     53.07633 (16122023)
 3861457.9 |     56.41499 (16122023)     55.60893 (16122023)     54.82855 (16122023)
    54.19719 (15020408)     54.03678 (15020408)
 3861428.5 |     57.44236 (15020408)     56.91925 (15020408)     56.30961 (15020408)
    55.57059 (15020408)     55.00624 (15020408)
 3861399.0 |     58.43793 (15020408)     57.47269 (15020408)     56.39357 (15020408)
    55.26270 (15020408)     54.28129 (15020408)
 3861369.6 |     57.40032 (15020408)     56.16142 (15020408)     54.68328 (15020408)
    53.23501 (15020408)     51.96958 (19022503)
 3861340.1 |     55.71814 (19022503)     55.23623 (19022503)     54.59516 (19022503)
    53.90453 (19022503)     53.31337 (19022503)
 3861310.7 |     56.81045 (19022503)     55.85571 (19022503)     54.91757 (19022503)
    53.94772 (19022503)     53.04635 (19022503)
 3861281.2 |     56.84447 (16120801)     56.03823 (16120801)     55.20517 (16120801)
    54.49329 (16120801)     53.56676 (16120801)
 3861251.8 |     57.59513 (18120821)     56.96827 (18120821)     56.31168 (18120821)
    55.67865 (18120821)     54.82337 (18120821)
 3861222.3 |     58.76508 (18120821)     57.84145 (18120821)     56.85257 (18120821)
    56.10248 (20120308)     55.71343 (20120308)
 3861192.9 |     61.68596 (20120308)     61.19347 (20120308)     60.61859 (20120308)
    60.02497 (20120308)     59.24251 (20120308)
 3861163.4 |     64.87840 (20120308)     64.03003 (20120308)     63.17417 (20120308)
    62.37309 (20120308)     61.32837 (20120308)
 3861134.0 |     65.96478 (20120308)     64.86606 (20120308)     63.71179 (20120308)
    62.62995 (20120308)     61.55726 (20120308)
 3861104.5 |     64.88765 (20120308)     63.60885 (20120308)     62.35080 (20120308)
    61.17371 (20120308)     60.01459 (20120308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 421
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,
```

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	492073.05	492103.84	492134.63	492165.42	492196.21
3861693.5	49.79475 (20120318)	49.12223 (20120318)	48.38987 (20120318)	47.56434 (20120318)	47.22722 (19020808)
3861664.1	49.94576 (19020808)	49.60243 (19020808)	49.21562 (19020808)	48.96909 (18120708)	48.94172 (18120708)
3861634.6	52.18596 (18120708)	51.67203 (18120708)	51.32801 (18120708)	50.82942 (18120708)	50.68629 (18120708)
3861605.2	54.28996 (18120708)	53.71544 (18120708)	52.84562 (18120708)	51.79428 (18120708)	51.08304 (18120708)
3861575.7	55.37190 (18120708)	54.02238 (18120708)	53.08479 (18120708)	51.55913 (18120708)	50.21908 (18120708)
3861546.3	54.15945 (18120708)	52.78528 (18120708)	51.45391 (18120708)	49.94515 (15020502)	49.04064 (15020502)
3861516.8	52.29937 (15020502)	51.33343 (15020502)	50.22109 (15020502)	49.60035 (16122023)	48.88458 (16122023)
3861487.4	52.08911 (16122023)	51.26911 (16122023)	50.58013 (15020408)	50.29712 (15020408)	49.89650 (15020408)
3861457.9	53.22154 (15020408)	52.66564 (15020408)	52.04007 (15020408)	51.35092 (15020408)	50.60415 (15020408)
3861428.5	53.93825 (15020408)	52.96326 (15020408)	51.94156 (15020408)	50.96826 (15020408)	49.91286 (15020408)
3861399.0	52.92248 (15020408)	51.63283 (15020408)	50.36612 (15020408)	49.12382 (15020408)	47.92439 (19022503)
3861369.6	51.33962 (19022503)	50.84522 (19022503)	50.39236 (19022503)	49.80566 (19022503)	49.22227 (19022503)
3861340.1	52.44110 (19022503)	51.62945 (19022503)	50.78671 (19022503)	49.91698 (19022503)	49.06670 (19022503)
3861310.7	52.31266 (16120801)	51.69332 (16120801)	50.95963 (16120801)	50.24791 (16120801)	49.47478 (16120801)
3861281.2	52.69357 (18120821)	52.20933 (18120821)	51.65167 (18120821)	51.02568 (18120821)	50.42341 (18120821)
3861251.8	54.04988 (18120821)	53.21333 (18120821)	52.41138 (18120821)	51.59817 (18120821)	50.73193 (18120821)
3861222.3	55.40729 (20120308)	55.02414 (20120308)	54.56813 (20120308)	54.14495 (20120308)	53.65380 (20120308)
3861192.9	58.73310 (20120308)	58.15104 (20120308)	57.50126 (20120308)	56.78843 (20120308)	56.01693 (20120308)
3861163.4	60.52062 (20120308)	59.76559 (20120308)	58.83942 (20120308)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 492227.00
3861693.5	46.90604 (19020808)
3861664.1	48.84927 (18120708)
3861634.6	50.12347 (18120708)
3861605.2	50.15406 (18120708)
3861575.7	49.01136 (18120708)
3861546.3	47.99908 (15020502)
3861516.8	48.19566 (16122023)
3861487.4	49.42764 (15020408)
3861457.9	49.84820 (15020408)
3861428.5	48.82665 (15020408)
3861399.0	47.58800 (19022503)
3861369.6	48.60154 (19022503)
3861340.1	48.32654 (16120801)
3861310.7	48.80871 (16120801)
3861281.2	49.84461 (18120821)

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488802.97	3861310.09	210.86495	(19011919)	488863.58	3861309.29	220.35243	(19122021)
488847.63	3861279.78	224.87830	(19011919)	488850.82	3861262.24	230.62603	(20122308)
488810.14	3861261.44	225.35693	(20122308)	488810.94	3861289.36	216.60263	(20122308)
488819.72	3861306.90	212.83569	(15010318)	488816.53	3861235.92	254.13232	(19121624)
488841.25	3861126.66	374.03864	(15012820)	488879.53	3861121.88	388.44123	(15012820)
488913.82	3861121.08	392.77206	(16102717)	488925.79	3861092.37	441.59563	(15012820)
488920.03	3861067.49	507.76983	(16012108)	488996.74	3861113.92	410.34929	(16102717)
488974.03	3861097.77	460.58567	(16102717)	488931.63			

3860976.64   525.38314 (16020308)
        488935.67   3861034.68   513.92127 (15120818)   488959.90
3861061.43   544.61477 (16012108)
        489165.81   3861208.80   313.97781 (19120419)   489317.74
3861109.28   384.95953 (18122219)
        489385.87   3861014.75   494.33382 (18122219)   489372.24
3861112.69   379.26737 (16010502)
        489420.79   3861106.73   374.53088 (18092521)   489436.12
3861037.74   435.35152 (20010422)
        489488.07   3861036.89   474.35097 (20010318)   489473.59
3861110.99   379.73108 (15121820)
        489431.01   3861167.20   338.85782 (18092521)   489662.66
3860915.95   1010.06830 (15020408)
        489644.78   3861076.07   458.73542 (16021119)   489659.26
3861099.06   421.36770 (16021119)
        489735.91   3861020.71   582.45480 (18011122)   489700.14
3861029.23   580.55380 (18020819)
        489708.65   3861062.44   469.14746 (16010507)   489779.34
3861099.06   417.23993 (18020819)
        489835.95   3859138.59   104.52101 (20030523)   489885.95
3859138.59   105.74981 (15112019)
        489935.95   3859138.59   101.46515 (18012320)   489985.95
3859138.59   105.54394 (16010405)
        490035.95   3859138.59   104.94700 (16010405)   490085.95
3859138.59   99.34186 (16122521)
        490135.95   3859138.59   101.29616 (16122521)   490185.95
3859138.59   102.50430 (20011520)
        490235.95   3859138.59   109.79303 (15121808)   490285.95
3859138.59   104.92892 (15121808)
        490335.95   3859138.59   85.66129 (20103119)   490385.95
3859138.59   74.09263 (19010405)
        490435.95   3859138.59   74.60170 (20121324)   490485.95
3859138.59   74.52315 (20121324)
        490535.95   3859138.59   62.60947 (20121324)   490585.95
3859138.59   50.86497 (18012217)
        490635.95   3859138.59   42.83855 (15120919)   490685.95
3859138.59   40.71178 (19122909)
        490735.95   3859138.59   43.53187 (19122909)   490785.95
3859138.59   43.69212 (19122909)
        490835.95   3859138.59   41.26813 (19122909)   490885.95
3859138.59   36.77096 (19122909)
        489835.95   3859188.59   105.86700 (20030523)   489885.95
3859188.59   108.00414 (15112019)
        489935.95   3859188.59   104.94774 (18012320)   489985.95
3859188.59   110.78307 (16010405)
        490035.95   3859188.59   105.54732 (16010405)   490085.95
3859188.59   107.06365 (16122521)
        490135.95   3859188.59   104.30090 (20011520)   490185.95
3859188.59   108.87587 (15121808)
        490235.95   3859188.59   113.22218 (15121808)   490285.95

3859188.59   101.07601 (15121808)
        490335.95   3859188.59   87.61490 (20103119)   490385.95
3859188.59   78.08621 (20121324)
        490435.95   3859188.59   82.28618 (20121324)   490485.95
3859188.59   73.09660 (20121324)
        490535.95   3859188.59   58.48499 (20121324)   490585.95
3859188.59   52.22482 (15020404)
        490635.95   3859188.59   45.39763 (15013024)   490685.95
3859188.59   43.93711 (19122909)
        490735.95   3859188.59   44.74180 (19122909)   490785.95
3859188.59   42.75364 (19122909)
        490835.95   3859188.59   38.44684 (19122909)   490885.95
3859188.59   32.61329 (19122909)
        489835.95   3859238.59   111.37089 (15112019)   489885.95
3859238.59   109.17442 (15112019)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
                                     INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                  L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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        490235.95   3859238.59      116.45837  (15121808)              490285.95
3859238.59       95.78993  (20103119)
        490335.95   3859238.59       87.61008  (19010405)              490385.95
3859238.59       88.56520  (20121324)
        490435.95   3859238.59       88.50114  (20121324)              490485.95
3859238.59       76.82446  (20121324)
        490535.95   3859238.59       64.40471  (15020404)              490585.95
3859238.59       55.89696  (15013024)
        490635.95   3859238.59       51.34031  (15013024)              490685.95
3859238.59       45.85261  (18060219)
        490735.95   3859238.59       44.24131  (19122909)              490785.95
3859238.59       44.25409  (18040818)
        490835.95   3859238.59       39.18033  (18040818)              490885.95
3859238.59       33.07659  (15122108)
        489835.95   3859288.59      116.09402  (15112019)              489885.95
3859288.59      111.24026  (18012320)
        489935.95   3859288.59      116.63913  (16010405)              489985.95
3859288.59      115.47156  (16010405)
        490035.95   3859288.59      112.82300  (16122521)              490085.95
3859288.59      111.26966  (16122521)
        490135.95   3859288.59      117.55313  (15121808)              490185.95
3859288.59      125.81724  (15121808)
        490235.95   3859288.59      114.97054  (15121808)              490285.95
3859288.59       98.70873  (19010405)
        490335.95   3859288.59       91.60137  (20121324)              490385.95
3859288.59       96.39882  (20121324)
        490435.95   3859288.59       87.12473  (20121324)              490485.95
3859288.59       76.43038  (15020404)
        490535.95   3859288.59       78.07948  (15020404)              490585.95
3859288.59       71.17781  (15013024)
        490635.95   3859288.59       66.04466  (15013024)              490685.95
3859288.59       56.70520  (16010120)
        490735.95   3859288.59       51.46550  (18040818)              490785.95
3859288.59       46.62373  (18040818)
        490835.95   3859288.59       44.53544  (19111222)              490885.95
3859288.59       38.32212  (19102907)
        489835.95   3859338.59      119.74883  (15112019)              489885.95
3859338.59      116.14118  (18012320)
        489935.95   3859338.59      122.63239  (16010405)              489985.95
3859338.59      116.34970  (16010405)
        490035.95   3859338.59      118.94543  (16122521)              490085.95
3859338.59      118.64524  (20011520)
        490135.95   3859338.59      128.35078  (15121808)              490185.95
3859338.59      128.69356  (15121808)
        490235.95   3859338.59      110.83448  (15121808)              490285.95
3859338.59      102.56048  (19010405)
        490335.95   3859338.59      103.61355  (20121324)              490385.95
3859338.59      103.43402  (20121324)
        490435.95   3859338.59       91.21643  (20121324)              490485.95
3859338.59       89.33089  (15020404)
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        490535.95   3859338.59       88.39587  (15013024)                490585.95
3859338.59       84.71517  (15013024)
        490635.95   3859338.59       72.13439  (16010120)                490685.95
3859338.59       70.67207  (16010120)
        490735.95   3859338.59       59.68777  (16010120)                490785.95
3859338.59       58.04024  (19111222)
        490835.95   3859338.59       54.47914  (19111222)                490885.95
3859338.59       46.30822  (15031607)
        489835.95   3859388.59      122.34136  (15112019)                489885.95
3859388.59      120.75232  (16010405)
        489935.95   3859388.59      126.87156  (16010405)                489985.95
3859388.59      120.05844  (16122521)
        490035.95   3859388.59      122.03853  (16122521)                490085.95
3859388.59      125.34269  (15121808)
        490135.95   3859388.59      135.50801  (15121808)                490185.95
3859388.59      127.39040  (15121808)
        490235.95   3859388.59      110.81284  (19010405)                490285.95
3859388.59      105.57781  (20121324)
        490335.95   3859388.59      112.12018  (20121324)                490385.95
3859388.59      105.67017  (20121324)
        490435.95   3859388.59      106.00149  (15020404)                490485.95
3859388.59      101.36226  (15013024)
        490535.95   3859388.59      102.31640  (15013024)                490585.95
3859388.59       89.91680  (15013024)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 425
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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3859538.59      120.69490  (19010405)
        490235.95   3859538.59      119.30226  (20121324)                490285.95
3859538.59      117.17151  (20121324)
        490335.95   3859538.59      128.74842  (15020404)                490385.95
3859538.59      124.22327  (15020404)
        490435.95   3859538.59      125.51165  (15013024)                490485.95
3859538.59      116.26032  (16010120)
        490535.95   3859538.59      120.56059  (16010120)                490585.95
3859538.59      111.22362  (16010120)
        490635.95   3859538.59      109.43069  (19111222)                490685.95
3859538.59      100.31088  (20022004)
        490735.95   3859538.59      102.86066  (20022004)                490785.95
3859538.59      100.00309  (20120808)
        490835.95   3859538.59       91.58702  (20120808)                490885.95
3859538.59       83.31422  (19120107)
        490135.95   3859588.59      122.98983  (19010405)                490185.95
3859588.59      120.29884  (20121324)
        490235.95   3859588.59      120.15256  (20121324)                490285.95
3859588.59      129.68463  (15020404)
        490335.95   3859588.59      131.90593  (15020404)                490385.95
3859588.59      128.87541  (15013024)
        490435.95   3859588.59      121.63666  (15013024)                490485.95
3859588.59      125.92440  (16010120)
        490535.95   3859588.59      120.33486  (16010120)                490585.95
3859588.59      119.23450  (15020520)
        490635.95   3859588.59      109.79081  (20022004)                490685.95
3859588.59      115.41278  (20022004)
        490735.95   3859588.59      113.70061  (20120808)                490785.95
3859588.59      103.25729  (20120808)
        490835.95   3859588.59       98.19483  (19120107)                490885.95
3859588.59       88.71320  (19011623)
        490135.95   3859638.59      129.27676  (19010405)                490185.95
3859638.59      113.51770  (20121324)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 426
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                 INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                 L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                 L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                 L0000170    , L0000171    , L0000172    , L0000173    , L0000174
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, L0000175   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490235.95	3859638.59	124.61813	(15020404)	490285.95	3859638.59	129.24203	(15020404)
490335.95	3859638.59	124.26071	(15013024)	490385.95	3859638.59	127.28224	(15013024)
490435.95	3859638.59	127.48286	(16010120)	490485.95	3859638.59	125.72907	(16010120)
490535.95	3859638.59	126.87898	(15020520)	490585.95	3859638.59	117.42038	(20022004)
490635.95	3859638.59	124.48856	(20022004)	490685.95	3859638.59	125.68318	(20120808)
490735.95	3859638.59	115.50287	(20120808)	490785.95	3859638.59	109.71993	(19120107)
490835.95	3859638.59	101.46110	(19011623)	490885.95	3859638.59	98.68457	(19122324)
490135.95	3859688.59	119.03643	(19010405)	490185.95	3859688.59	122.58702	(18012217)
490235.95	3859688.59	132.62655	(15020404)	490285.95	3859688.59	134.63113	(15020404)
490335.95	3859688.59	127.30855	(15013024)	490385.95	3859688.59	118.05783	(16010120)
490435.95	3859688.59	127.28792	(16010120)	490485.95	3859688.59	131.88870	(15020520)
490535.95	3859688.59	122.59913	(15020520)	490585.95	3859688.59	130.86422	(20022004)
490635.95	3859688.59	135.23439	(20120808)	490685.95	3859688.59	125.91031	(20120808)
490735.95	3859688.59	119.94112	(19120107)	490785.95	3859688.59	110.81663	(19011623)
490835.95	3859688.59	108.48209	(19122324)	490885.95	3859688.59	101.67247	(18031023)
490085.95	3859738.59	132.79245	(19010405)	490135.95	3859738.59	122.66723	(18012217)
490185.95	3859738.59	133.52891	(15020404)	490235.95	3859738.59	133.66510	(15020404)
490285.95	3859738.59	127.30806	(15013024)	490335.95	3859738.59	116.58385	(16111924)
490385.95	3859738.59	129.30290	(16010120)	490435.95	3859738.59	131.31944	(15020520)

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        490485.95   3859738.59      129.10974  (15020520)                490535.95
3859738.59      134.36506  (20022004)
        490585.95   3859738.59      141.89425  (20120808)                490635.95
3859738.59      134.11275  (20120808)
        490685.95   3859738.59      128.82164  (19120107)                490735.95
3859738.59      120.39732  (19011623)
        490785.95   3859738.59      118.81519  (19122324)                490835.95
3859738.59      108.54088  (18031023)
        490885.95   3859738.59      101.22284  (16092619)                490085.95
3859788.59      132.34993  (20121324)
        490135.95   3859788.59      138.47486  (15020404)                490185.95
3859788.59      143.55873  (15020404)
        490235.95   3859788.59      131.51515  (15020404)                490285.95
3859788.59      119.81389  (16111924)
        490335.95   3859788.59      118.48492  (16010120)                490385.95
3859788.59      124.53142  (15020520)
        490435.95   3859788.59      125.01091  (15020520)                490485.95
3859788.59      127.43257  (20120808)
        490535.95   3859788.59      145.66408  (20120808)                490585.95
3859788.59      137.58911  (20120808)
        490635.95   3859788.59      134.45070  (19120107)                490685.95
3859788.59      128.36056  (19122324)
        490735.95   3859788.59      125.54322  (19122324)                490785.95
3859788.59      114.05094  (18031023)
        490835.95   3859788.59      108.03818  (20112919)                490885.95
3859788.59      110.34622  (18011120)
        490085.95   3859838.59      140.55929  (18012217)                490135.95
3859838.59      151.06461  (15020404)
        490185.95   3859838.59      143.99034  (15020404)                490235.95
3859838.59      133.52151  (15013024)
        490285.95   3859838.59      129.36610  (16010120)                490335.95
3859838.59      130.85687  (15020520)
        490385.95   3859838.59      126.56540  (15020520)                490435.95
3859838.59      127.34607  (20120808)
        490485.95   3859838.59      135.40310  (20120808)                490535.95
3859838.59      135.74061  (20120808)
        490585.95   3859838.59      131.50527  (19120107)                490635.95
3859838.59      130.98869  (19122324)
        490685.95   3859838.59      127.08703  (19122324)                490735.95
3859838.59      116.66220  (18031023)
        490785.95   3859838.59      114.01711  (20112919)                490835.95
3859838.59      119.27082  (18011120)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 427
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490885.95	3859838.59	121.85731	(18011120)	490085.95	3859888.59	157.03292	(15020404)
490135.95	3859888.59	156.01059	(15020404)	490185.95	3859888.59	143.80249	(15013024)
490235.95	3859888.59	137.27983	(16010120)	490285.95	3859888.59	139.11352	(15020520)
490335.95	3859888.59	134.16131	(15020520)	490385.95	3859888.59	132.52943	(20120808)
490435.95	3859888.59	135.35299	(20120808)	490485.95	3859888.59	128.42454	(20120808)
490535.95	3859888.59	125.42396	(19120107)	490585.95	3859888.59	129.81078	(19122324)
490635.95	3859888.59	126.14261	(19122324)	490685.95	3859888.59	113.87882	(18031023)
490735.95	3859888.59	118.15086	(20122020)	490785.95	3859888.59	118.77930	(20122020)
490835.95	3859888.59	122.30188	(19020802)	490885.95	3859888.59	124.59691	(19020802)
490135.95	3859938.59	151.67264	(15013024)	490185.95	3859938.59	144.04900	(16010120)
490235.95	3859938.59	147.85447	(15020520)	490285.95	3859938.59	143.65599	(15020520)
490335.95	3859938.59	141.19050	(20120808)	490385.95	3859938.59	143.59713	(20120808)
490435.95	3859938.59	132.65461	(20120808)	490485.95	3859938.59	123.03685	(19120107)
490535.95	3859938.59	124.33400	(19122324)	490585.95	3859938.59	123.76475	(19122324)
490635.95	3859938.59	111.58455	(16092619)	490685.95			

3859938.59 123.96495 (20122020)
490735.95 3859938.59 127.61519 (19121704) 490785.95
3859938.59 127.82694 (19020802)
490835.95 3859938.59 126.88346 (20122119) 490885.95
3859938.59 112.71433 (20122808)
490135.95 3859988.59 153.92514 (16010120) 490185.95
3859988.59 157.86553 (15020520)
490235.95 3859988.59 160.43762 (15020520) 490285.95
3859988.59 153.25687 (20120808)
490335.95 3859988.59 156.48028 (20120808) 490385.95
3859988.59 140.86923 (20120808)
490435.95 3859988.59 132.20331 (19122324) 490485.95
3859988.59 130.08870 (19122324)
490535.95 3859988.59 118.67794 (19122324) 490585.95
3859988.59 115.40667 (20122020)
490635.95 3859988.59 119.47539 (20122020) 490685.95
3859988.59 125.29205 (19121704)
490735.95 3859988.59 126.26164 (15121821) 490785.95
3859988.59 124.02724 (20122119)
490835.95 3859988.59 125.38676 (19120108) 490885.95
3859988.59 123.75106 (19120108)
490135.95 3860038.59 166.90092 (15020520) 490185.95
3860038.59 167.92440 (15020520)
490235.95 3860038.59 163.75443 (20120808) 490285.95
3860038.59 165.31333 (20120808)
490335.95 3860038.59 152.43449 (20120808) 490385.95
3860038.59 142.58276 (19122324)
490435.95 3860038.59 138.19349 (19122324) 490485.95
3860038.59 123.66960 (19122324)
490535.95 3860038.59 125.22864 (20122020) 490585.95
3860038.59 122.85781 (19121704)
490635.95 3860038.59 120.72188 (15121821) 490685.95
3860038.59 117.71518 (15012223)
490735.95 3860038.59 124.00922 (20122808) 490785.95
3860038.59 131.80779 (19120108)
490835.95 3860038.59 133.04040 (19120108) 490885.95
3860038.59 122.56957 (19120708)
490135.95 3860088.59 181.93116 (15020520) 490185.95
3860088.59 178.78138 (20120808)
490235.95 3860088.59 181.23974 (20120808) 490285.95
3860088.59 164.12450 (20120808)
490335.95 3860088.59 153.94936 (19122324) 490385.95
3860088.59 146.61629 (19122324)
490435.95 3860088.59 132.41080 (20122020) 490485.95
3860088.59 135.20937 (20122020)
490535.95 3860088.59 131.90489 (19121704) 490585.95
3860088.59 129.01582 (15121821)
490635.95 3860088.59 126.91673 (20122808) 490685.95
3860088.59 130.08005 (19120108)
490735.95 3860088.59 132.12044 (19120108) 490785.95

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
                                    INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                  L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                            ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
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        491035.95   3860138.59      107.32345  (16010208)              490135.95
3860188.59      207.99266  (20120808)
        490185.95   3860188.59      187.18702  (19120107)              490235.95
3860188.59      180.85327  (19122324)
        490285.95   3860188.59      164.42088  (19122324)              490335.95
3860188.59      160.68027  (20122020)
        490385.95   3860188.59      157.44498  (19121704)              490435.95
3860188.59      153.85768  (15121821)
        490485.95   3860188.59      151.28868  (20122808)              490535.95
3860188.59      157.17854  (19120108)
        490585.95   3860188.59      157.08155  (19120108)              490635.95
3860188.59      155.27394  (19120708)
        490685.95   3860188.59      148.16101  (19120708)              490735.95
3860188.59      135.50443  (19120708)
        490785.95   3860188.59      126.44584  (15121006)              490835.95
3860188.59      125.71245  (16010208)
        490885.95   3860188.59      122.46660  (16010208)              490935.95
3860188.59      115.99233  (16010208)
        490985.95   3860188.59      110.27833  (18120308)              491035.95
3860188.59      102.89717  (18120308)
        491085.95   3860188.59       99.38228  (18121507)              491135.95
3860188.59       96.02698  (18121507)
        490135.95   3860238.59      201.94736  (19120107)              490185.95
3860238.59      195.46487  (19122324)
        490235.95   3860238.59      173.55903  (19122324)              490285.95
3860238.59      175.55001  (20122020)
        490335.95   3860238.59      171.72335  (15121821)              490385.95
3860238.59      167.09171  (15012223)
        490435.95   3860238.59      171.71793  (19120108)              490485.95
3860238.59      174.35187  (19120108)
        490535.95   3860238.59      172.18826  (19120708)              490585.95
3860238.59      165.27984  (19120708)
        490635.95   3860238.59      151.49891  (19120708)              490685.95
3860238.59      139.76056  (15121006)
        490735.95   3860238.59      138.78046  (16010208)              490785.95
3860238.59      134.61148  (16010208)
        490835.95   3860238.59      126.68809  (16010208)              490885.95
3860238.59      119.98814  (18120308)
        490935.95   3860238.59      111.98124  (18121507)              490985.95
3860238.59      109.55538  (18121507)
        491035.95   3860238.59      105.77870  (18011822)              491085.95
3860238.59      101.70412  (18011822)
        491135.95   3860238.59       96.54045  (18011822)              490135.95
3860288.59      212.34918  (19122324)
        490185.95   3860288.59      193.48758  (20122020)              490235.95
3860288.59      191.83205  (19121704)
        490285.95   3860288.59      187.84992  (15121821)              490335.95
3860288.59      187.08066  (19120108)
        490385.95   3860288.59      194.22205  (19120108)              490435.95
3860288.59      192.02626  (19120708)
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490985.95	3860288.59	110.72914	(18011822)	491035.95	3860288.59	106.84023	(15010721)
491085.95	3860288.59	104.28932	(15010721)	490135.95	3860338.59	216.77457	(20122020)
490185.95	3860338.59	212.43295	(15121821)	490235.95	3860338.59	206.48118	(15012223)
490285.95	3860338.59	216.57073	(19120108)	490335.95	3860338.59	215.25357	(19120108)
490385.95	3860338.59	210.59200	(19120708)	490435.95	3860338.59	194.11471	(19120708)
490485.95	3860338.59	174.98683	(15121006)	490535.95			

3860338.59 173.63638 (16010208)
490585.95 3860338.59 165.92977 (16010208) 490635.95
3860338.59 154.81702 (18120308)
490685.95 3860338.59 143.19453 (18120308) 490735.95
3860338.59 137.82435 (18121507)
490785.95 3860338.59 133.25438 (18011822) 490835.95
3860338.59 127.37609 (18011822)
490885.95 3860338.59 121.16209 (15010721) 490935.95
3860338.59 118.52344 (15010721)
490985.95 3860338.59 113.85272 (15010721) 491035.95
3860338.59 107.88304 (15010721)
491085.95 3860338.59 102.11717 (20122520) 490135.95
3860388.59 236.77284 (15121821)
490185.95 3860388.59 241.37680 (19120108) 490235.95
3860388.59 245.75238 (19120108)
490285.95 3860388.59 240.54947 (19120708) 490335.95
3860388.59 222.99085 (19120708)
490385.95 3860388.59 198.68589 (15121006) 490435.95
3860388.59 196.83332 (16010208)
490485.95 3860388.59 186.58170 (16010208) 490535.95
3860388.59 173.02162 (18120308)
490585.95 3860388.59 160.39848 (18121507) 490635.95
3860388.59 153.76159 (18011822)
490685.95 3860388.59 148.16178 (18011822) 490735.95
3860388.59 139.15301 (18011822)
490785.95 3860388.59 136.27045 (15010721) 490835.95
3860388.59 131.21706 (15010721)
490135.95 3860438.59 281.77960 (19120108) 490185.95
3860438.59 277.11816 (19120708)
490235.95 3860438.59 259.13331 (19120708) 490285.95
3860438.59 228.45519 (16010208)
490335.95 3860438.59 225.52174 (16010208) 490385.95
3860438.59 211.31045 (16010208)
490435.95 3860438.59 194.10930 (18120308) 490485.95
3860438.59 182.09760 (18121507)
490535.95 3860438.59 174.75858 (18011822) 490585.95
3860438.59 164.85170 (18011822)
490635.95 3860438.59 158.73933 (15010721) 490685.95
3860438.59 152.45844 (15010721)
490735.95 3860438.59 143.50319 (15010721) 490785.95
3860438.59 135.55274 (20122520)
490835.95 3860438.59 131.24575 (20122520) 490135.95
3860488.59 305.22927 (19120708)
490185.95 3860488.59 266.77491 (16010208) 490235.95
3860488.59 261.72870 (16010208)
490285.95 3860488.59 241.86499 (16010208) 490335.95
3860488.59 219.01076 (18120308)
490385.95 3860488.59 208.88683 (18011822) 490435.95
3860488.59 198.90021 (18011822)
490485.95 3860488.59 188.48266 (15010721) 490535.95

3860488.59   180.61977 (15010721)
        490585.95   3860488.59   168.73243 (15010721)   490635.95
3860488.59   159.11686 (20122520)
        490685.95   3860488.59   151.94263 (20122520)   490735.95
3860488.59   142.61420 (20122520)
        490785.95   3860488.59   138.76917 (15021320)   490135.95
3860538.59   308.78193 (16010208)
        490185.95   3860538.59   280.54481 (18120308)   490235.95
3860538.59   256.33940 (18121507)
        490285.95   3860538.59   243.67932 (18011822)   490335.95
3860538.59   227.49772 (15010721)
        490385.95   3860538.59   218.63986 (15010721)   490435.95
3860538.59   203.47381 (15010721)
        490485.95   3860538.59   191.27854 (20122520)   490535.95
3860538.59   181.64259 (20122520)
        490585.95   3860538.59   170.18450 (15021320)   490635.95
3860538.59   164.32682 (15021320)
        490685.95   3860538.59   156.25963 (15021320)   490735.95
3860538.59   146.17526 (15021320)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
                                   INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                 L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                 L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                 L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

490185.95 3860588.59 283.02311 (18011822) 490235.95 3860588.59 270.17262 (15010721)
490285.95 3860588.59 250.07065 (15010721) 490335.95 3860588.59 233.11592 (20122520)
490385.95 3860588.59 217.03965 (20122520) 490435.95 3860588.59 209.14960 (15021320)
490485.95 3860588.59 199.28060 (15021320) 490535.95 3860588.59 185.49905 (15021320)
490585.95 3860588.59 176.14876 (20012419) 490635.95 3860588.59 168.40881 (20012419)
490685.95 3860588.59 159.06373 (20012419) 490735.95 3860588.59 150.68591 (18011319)
490785.95 3860588.59 142.90638 (18011319) 490135.95 3860638.59 320.86223 (15010721)
490185.95 3860638.59 295.40858 (20122520) 490235.95 3860638.59 271.93160 (15021320)
490285.95 3860638.59 257.79168 (15021320) 490335.95 3860638.59 239.03910 (15021320)
490385.95 3860638.59 227.49446 (20012419) 490435.95 3860638.59 214.64672 (20012419)
490485.95 3860638.59 200.23179 (18011319) 490535.95 3860638.59 189.89575 (18011319)
490585.95 3860638.59 178.42408 (19013107) 490635.95 3860638.59 169.10216 (19013107)
490685.95 3860638.59 159.99189 (15012208) 490735.95 3860638.59 151.99785 (15012208)
490785.95 3860638.59 144.14332 (15012208) 490135.95 3860688.59 331.74632 (15021320)
490185.95 3860688.59 312.01977 (20012419) 490235.95 3860688.59 288.82559 (20012419)
490285.95 3860688.59 262.73926 (18011319) 490335.95 3860688.59 245.80119 (19013107)
490385.95 3860688.59 230.37306 (19013107) 490435.95 3860688.59 216.19962 (15012208)
490485.95 3860688.59 201.97559 (15012208) 490535.95 3860688.59 189.28871 (16020401)
490585.95 3860688.59 179.17118 (16020401) 490635.95 3860688.59 170.00055 (20122021)
490685.95 3860688.59 162.43623 (20122021) 490735.95 3860688.59 154.01656 (20122021)
490785.95 3860688.59 146.31815 (20122021) 490135.95 3860738.59 339.47002 (19013107)
490185.95 3860738.59 310.79018 (15012208) 490235.95 3860738.59 285.42902 (16020401)
490285.95 3860738.59 265.15643 (16020401) 490335.95 3860738.59 249.17199 (20122021)
490385.95 3860738.59 233.39821 (20122021) 490435.95 3860738.59 219.65473 (20122021)
490485.95 3860738.59 202.96477 (20122021) 490535.95 3860738.59 186.02672 (20120821)

```
        490585.95   3860738.59      176.51048  (20120821)                490635.95
3860738.59      167.78276  (20120821)
        490685.95   3860738.59      160.09214  (20120821)                490735.95
3860738.59      152.44034  (20120821)
        490785.95   3860738.59      145.28181  (20120821)                490135.95
3860788.59      330.79904  (20120821)
        490185.95   3860788.59      306.49200  (20120821)                490235.95
3860788.59      282.86817  (20120821)
        490285.95   3860788.59      261.10151  (20120821)                490335.95
3860788.59      241.63909  (15021823)
        490385.95   3860788.59      229.93014  (15021823)                490435.95
3860788.59      217.07197  (15021823)
        490485.95   3860788.59      206.21175  (15021823)                490535.95
3860788.59      193.52794  (15021823)
        490585.95   3860788.59      180.19811  (15021823)                490635.95
3860788.59      169.85127  (15021823)
        490685.95   3860788.59      161.06925  (15021823)                490735.95
3860788.59      153.51932  (15021823)
        490785.95   3860788.59      145.40423  (15021823)                489985.95
3860838.59      437.51157  (15021823)
        490035.95   3860838.59      399.17765  (15012508)                490085.95
3860838.59      369.48153  (15012508)
        490135.95   3860838.59      342.30723  (15012508)                490185.95
3860838.59      314.18401  (15012508)
        490235.95   3860838.59      289.92880  (15012508)                490285.95
3860838.59      269.93615  (15012508)
        490335.95   3860838.59      250.52861  (15012508)                490385.95
3860838.59      233.88193  (15012508)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 431
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING1 ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                 L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                 L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                 L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490435.95	3860838.59	220.38061	(15012508)	490485.95	3860838.59	207.43784	(15012508)
490535.95	3860838.59	194.80866	(15012508)	490585.95	3860838.59	182.34094	(15012508)
490635.95	3860838.59	171.10900	(15012508)	490685.95	3860838.59	161.97114	(15012508)
490735.95	3860838.59	154.32213	(15012508)	490785.95	3860838.59	146.80445	(15012508)
490835.95	3860838.59	139.47031	(15012508)	489835.95	3860888.59	629.88014	(15121708)
489885.95	3860888.59	547.26453	(15121708)	489935.95	3860888.59	481.03099	(15121708)
489985.95	3860888.59	428.45637	(15121708)	490035.95	3860888.59	384.20465	(15121708)
490085.95	3860888.59	352.85427	(19010506)	490135.95	3860888.59	324.46800	(19010506)
490185.95	3860888.59	298.04733	(19010506)	490235.95	3860888.59	275.87166	(19010506)
490285.95	3860888.59	256.12259	(19010506)	490335.95	3860888.59	238.06769	(19010506)
490385.95	3860888.59	223.65546	(19010506)	490435.95	3860888.59	211.01880	(19010506)
490485.95	3860888.59	198.67141	(19010506)	490535.95	3860888.59	187.07803	(19010506)
490585.95	3860888.59	176.06721	(19010506)	490635.95	3860888.59	165.81111	(19010506)
490685.95	3860888.59	157.06633	(19010506)	490735.95	3860888.59	149.33146	(19010506)
490785.95	3860888.59	141.84172	(19010506)	490835.95	3860888.59	135.63876	(19010506)
490885.95	3860888.59	130.46442	(19010506)	490935.95	3860888.59	124.88916	(19010506)
489835.95	3860938.59	569.22139	(16120801)	489885.95	3860938.59	527.08480	(20120308)
489935.95	3860938.59	493.57627	(20120308)	489985.95	3860938.59	457.57335	(20120308)
490035.95	3860938.59	421.14900	(20120308)	490085.95	3860938.59	386.06953	(20120308)
490135.95	3860938.59	350.09054	(20120308)	490185.95	3860938.59	321.24300	(20120308)
490235.95	3860938.59	294.35114	(20120308)	490285.95	3860938.59	270.32457	(20120308)
490335.95	3860938.59	249.40619	(15121708)	490385.95			

3860938.59   234.73320 (15121708)
        490435.95   3860938.59   220.94932 (15121708)   490485.95
3860938.59   207.14413 (15121708)
        490535.95   3860938.59   194.64647 (15121708)   490585.95
3860938.59   182.27970 (15121708)
        490635.95   3860938.59   170.96217 (15121708)   490685.95
3860938.59   160.91273 (15121708)
        490735.95   3860938.59   151.72649 (15121708)   490785.95
3860938.59   143.39034 (15121708)
        490835.95   3860938.59   136.58001 (15121708)   490885.95
3860938.59   130.42823 (15121708)
        490935.95   3860938.59   123.81305 (15121708)   489835.95
3860988.59   553.22456 (18120708)
        489885.95   3860988.59   507.63411 (18120708)   489935.95
3860988.59   439.60927 (18120708)
        489985.95   3860988.59   406.00889 (15020408)   490035.95
3860988.59   364.09825 (15020408)
        490085.95   3860988.59   328.16363 (19022503)   490135.95
3860988.59   303.03222 (16120801)
        490185.95   3860988.59   284.96228 (18120821)   490235.95
3860988.59   269.88059 (20120308)
        490285.95   3860988.59   258.76944 (20120308)   490335.95
3860988.59   247.60883 (20120308)
        490385.95   3860988.59   236.20347 (20120308)   490435.95
3860988.59   226.30580 (20120308)
        490485.95   3860988.59   214.08877 (20120308)   490535.95
3860988.59   201.47784 (20120308)
        490585.95   3860988.59   189.73048 (20120308)   490635.95
3860988.59   179.04738 (20120308)
        490685.95   3860988.59   168.21634 (20120308)   490735.95
3860988.59   157.97564 (20120308)
        490785.95   3860988.59   149.06356 (20120308)   490835.95
3860988.59   141.21184 (20120308)
        490885.95   3860988.59   134.24671 (20120308)   490935.95
3860988.59   127.97087 (15121708)
        489835.95   3861038.59   474.75810 (18022523)   489885.95
3861038.59   449.95631 (18011522)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING1 ***
                                INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                 L0000154   , L0000155   , L0000156   , L0000157   , L0000158

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, L0000159    , L0000160    , L0000161    ,
                L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        489935.95   3861038.59      403.14631  (20120318)               489985.95
3861038.59      381.27790  (18120708)
        490035.95   3861038.59      365.42424  (18120708)               490085.95
3861038.59      335.54517  (18120708)
        490135.95   3861038.59      298.56447  (18120708)               490185.95
3861038.59      279.41728  (15020408)
        490235.95   3861038.59      261.18795  (15020408)               490285.95
3861038.59      238.19586  (15020408)
        490335.95   3861038.59      217.44527  (19022503)               490385.95
3861038.59      206.43281  (19022503)
        490435.95   3861038.59      195.94064  (16120801)               490485.95
3861038.59      185.62530  (18120821)
        490535.95   3861038.59      177.04024  (18120821)               490585.95
3861038.59      168.49498  (20120308)
        490635.95   3861038.59      163.45572  (20120308)               490685.95
3861038.59      158.15740  (20120308)
        490735.95   3861038.59      152.79427  (20120308)               490785.95
3861038.59      147.66724  (20120308)
        490835.95   3861038.59      142.67485  (20120308)               490885.95
3861038.59      137.55981  (20120308)
        490935.95   3861038.59      132.60791  (20120308)               489835.95
3861088.59      434.84714  (15011619)
        489885.95   3861088.59      408.78205  (18011122)               489935.95
3861088.59      363.00693  (19020204)
        489985.95   3861088.59      351.74990  (18022523)               490035.95
3861088.59      326.89235  (18011522)
        490085.95   3861088.59      298.04204  (20120318)               490135.95
3861088.59      285.28707  (20120318)
        490185.95   3861088.59      280.48701  (18120708)               490235.95
3861088.59      264.59482  (18120708)
        490285.95   3861088.59      243.58882  (18120708)               490335.95
3861088.59      219.32221  (18120708)
        490385.95   3861088.59      207.21193  (15020408)               490435.95
3861088.59      197.84722  (15020408)
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        490485.95   3861088.59      186.28466  (15020408)                490535.95
3861088.59      173.98284  (15020408)
        490585.95   3861088.59      159.80489  (19022503)                490635.95
3861088.59      151.71162  (19022503)
        490685.95   3861088.59      143.62739  (19022503)                490735.95
3861088.59      136.89977  (16120801)
        490785.95   3861088.59      130.97308  (16120801)                490835.95
3861088.59      126.07694  (18120821)
        490885.95   3861088.59      121.76478  (18120821)                490935.95
3861088.59      117.43554  (18120821)
        489020.79   3862564.85       64.66241  (18010720)                489043.15
3862350.21       74.90521  (19122903)
        489072.96   3862287.60       79.15988  (16020222)                488980.55
3862078.92       92.51327  (18012323)
        489037.19   3862822.72       54.99800  (15020218)                489120.66
3863016.49       56.04258  (20022108)
        489037.19   3863350.37       47.64496  (20022108)

1 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 433
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                 L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                 L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                 L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489237.26              489256.56              489275.86
      489295.16              489314.46
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    207.23601 (18010221)    213.88383 (18010221)    211.71862 (18010221)
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  209.07213 (19011424)    208.06694 (16122922)
 3859937.6 |    203.81143 (18010221)    209.33988 (18010221)    206.31221 (18010221)
  204.40835 (19011424)    204.23955 (16122922)
 3859918.2 |    200.41049 (18010221)    204.66110 (18010221)    200.83595 (18010221)
  199.39180 (19011424)    200.47620 (16122922)
 3859898.8 |    196.85487 (18010221)    198.12525 (18010221)    196.88821 (19011424)
  195.10918 (19011424)    194.83623 (16122922)
 3859879.4 |    191.23842 (18010221)    193.73602 (18010221)    191.34089 (19011424)
  189.66140 (19011424)    189.10135 (16122922)
 3859860.0 |    187.66739 (18010221)    189.23805 (18010221)    187.46543 (19011424)
  185.18786 (19011424)    185.60468 (16122922)
 3859840.5 |    184.06973 (18010221)    184.72057 (18010221)    183.57862 (19011424)
  180.68902 (19011424)    182.18749 (16122922)
 3859821.1 |    180.44395 (18010221)    180.18522 (18010221)    179.60582 (19011424)
  177.27819 (19011424)    180.78661 (16122922)
 3859801.7 |    178.43671 (18010221)    175.61689 (18010221)    175.82644 (19011424)
  172.85163 (19011424)    177.48242 (16122922)
 3859782.3 |    174.67780 (18010221)    172.31177 (19011424)    172.08468 (19011424)
  168.39625 (19011424)    174.29886 (16122922)
 3859762.9 |    170.90825 (18010221)    169.21048 (19011424)    169.72287 (19011424)
  165.20813 (16122922)    171.21977 (16122922)
 3859743.4 |    167.14402 (18010221)    166.11039 (19011424)    165.94703 (19011424)
  162.65569 (16122922)    168.16437 (16122922)
 3859724.0 |    163.37440 (18010221)    163.01634 (19011424)    162.26617 (19011424)
  160.14041 (16122922)    165.14459 (16122922)
 3859704.6 |    159.60159 (18010221)    161.37700 (19011424)    158.63526 (19011424)
  157.66263 (16122922)    162.15486 (16122922)
 3859685.2 |    155.83970 (18010221)    158.24875 (19011424)    155.10620 (19011424)
  155.05312 (16122922)    159.17523 (16122922)
 3859665.8 |    153.29312 (19011424)    155.14274 (19011424)    150.57155 (19011424)
  150.86768 (16122922)    154.69824 (16122922)
 3859646.4 |    150.84508 (19011424)    152.05171 (19011424)    148.00870 (19011424)
  150.26375 (16122922)    153.64444 (16122922)
 3859626.9 |    149.76924 (19011424)    148.97756 (19011424)    144.40945 (19011424)
  148.16994 (16122922)    152.51918 (16122922)
 3859607.5 |    147.26350 (19011424)    145.92474 (19011424)    141.05767 (19011424)
  147.41697 (16122922)    149.86897 (16122922)
 3859588.1 |    144.78731 (19011424)    144.05778 (19011424)    138.93715 (16122922)
  145.29111 (16122922)    147.64536 (20040918)
 3859568.7 |    143.56195 (19011424)    140.96061 (19011424)    137.34893 (16122922)
  143.18025 (16122922)    147.28695 (20040918)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 434
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: LOADING2 ***
                                INCLUDING SOURCE(S):   L0000176   , L0000177
, L0000178   , L0000179   , L0000180   ,
                 L0000181   , L0000182   , L0000183   , L0000184   , L0000185
, L0000186   , L0000187   , L0000188   ,
                 L0000189   , L0000190   , L0000191   , L0000192   , L0000193
, L0000194   , L0000195   , L0000196   ,
                 L0000197   , L0000198   , L0000199   , L0000200   , L0000201
, L0000202   , L0000203   ,

                                *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489333.76   489353.06   489372.36
      489391.66   489410.96
 -
- -

 3859957.1 | 219.89183 (20040918)   230.09297 (20040918)   231.83401 (20040918)
   228.96052 (20040918)   228.61519 (16020819)
 3859937.6 | 215.26267 (20040918)   222.28068 (20040918)   224.06332 (20040918)
   218.50849 (20040918)   221.60926 (16020819)
 3859918.2 | 210.81333 (20040918)   217.44785 (20040918)   219.05032 (20040918)
   213.52880 (20040918)   218.75087 (16020819)
 3859898.8 | 203.81975 (20040918)   212.63724 (20040918)   211.58114 (20040918)
   207.28169 (16020819)   211.98062 (16020819)
 3859879.4 | 196.54287 (20040918)   205.19392 (20040918)   204.40301 (20040918)
   201.72252 (16020819)   205.21665 (16020819)
 3859860.0 | 192.61190 (20040918)   200.76429 (20040918)   199.96929 (20040918)
   197.73048 (16020819)   199.59941 (16020819)
 3859840.5 | 188.80147 (20040918)   196.54467 (20040918)   195.62965 (20040918)
   191.95576 (16020819)   195.91740 (16020819)
 3859821.1 | 187.79608 (20040918)   192.54178 (20040918)   191.43096 (20040918)
   188.14561 (16020819)   192.27012 (16020819)
 3859801.7 | 181.52106 (20040918)   188.58595 (20040918)   187.35298 (20040918)
   184.41687 (16020819)   186.96302 (16020819)
 3859782.3 | 178.04139 (20040918)   184.75192 (20040918)   183.41029 (20040918)
   180.79059 (16020819)   183.43053 (16020819)
 3859762.9 | 177.49405 (20040918)   181.12020 (20040918)   181.90229 (20040918)
   179.01376 (16020819)   181.52159 (16020819)
 3859743.4 | 174.30015 (20040918)   177.67154 (20040918)   178.16500 (20040918)
   175.61138 (16020819)   178.08727 (16020819)
 3859724.0 | 171.19431 (20040918)   176.47798 (20040918)   174.50775 (20040918)
   172.27500 (16020819)   174.81469 (16020819)
 3859704.6 | 167.79698 (20040918)   170.71551 (20040918)   168.90333 (20040918)
   169.01427 (16020819)   171.65392 (16020819)

```
 3859685.2 |    164.60141 (20040918)    167.42457 (20040918)    167.58206 (20040918)
   165.92015 (16020819)    168.54537 (16020819)
 3859665.8 |    161.48245 (20040918)    164.22888 (20040918)    164.35497 (20040918)
   162.98041 (16020819)    165.50974 (16020819)
 3859646.4 |    159.01171 (20040918)    163.31823 (20040918)    161.15101 (20040918)
   160.03995 (16020819)    164.08489 (16020819)
 3859626.9 |    158.51768 (20040918)    160.36400 (20040918)    158.04117 (20040918)
   157.21369 (16020819)    161.23662 (16020819)
 3859607.5 |    155.88183 (20040918)    157.49079 (20040918)    155.06089 (20040918)
   155.79932 (16020819)    158.46140 (16020819)
 3859588.1 |    153.43890 (20040918)    154.86574 (20040918)    154.08417 (20040918)
   153.17286 (16020819)    155.78306 (16020819)
 3859568.7 |    152.94532 (20040918)    154.10579 (20040918)    151.34958 (20040918)
   150.61218 (16020819)    153.16966 (16020819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 435
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                  INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                  L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                               *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489430.26              489449.56              489468.86
      489488.16              489507.46
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    226.62055 (16020819)    231.30924 (15120819)    230.53354 (15120819)
   222.87971 (15120819)    211.08044 (15120819)
 3859937.6 |    219.63390 (16020819)    225.07505 (15120819)    223.24324 (15120819)
   214.15534 (15120819)    205.61360 (18120603)
 3859918.2 |    217.93195 (16020819)    220.24282 (15120819)    217.36799 (15120819)
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   209.63589 (15120819)    203.13694 (18120603)
 3859898.8 |    209.97607 (16020819)    214.33406 (15120819)    213.20878 (15120819)
   206.03846 (15120819)    199.46169 (18120603)
 3859879.4 |    201.97989 (16020819)    206.52784 (15120819)    209.14750 (15120819)
   200.54920 (15120819)    195.40907 (18120603)
 3859860.0 |    197.12473 (16020819)    193.25038 (15120819)    196.77497 (15120819)
   187.79947 (15120819)    190.21461 (18120603)
 3859840.5 |    192.12415 (16020819)    186.63581 (16122205)    186.25067 (16122205)
   180.48216 (16122205)    184.03302 (18120603)
 3859821.1 |    188.54659 (16020819)    183.03419 (16122205)    181.72424 (16122205)
   176.69879 (16122205)    177.97873 (18120603)
 3859801.7 |    185.52371 (16020819)    178.20748 (16122205)    178.85960 (16122205)
   174.31942 (16122205)    171.74484 (18120603)
 3859782.3 |    180.87174 (16020819)    174.93864 (16020819)    174.55069 (16122205)
   170.41455 (16122205)    165.38881 (18120603)
 3859762.9 |    178.78687 (16020819)    170.98055 (16020819)    171.86750 (16122205)
   167.96186 (16122205)    163.24824 (19102618)
 3859743.4 |    175.48551 (16020819)    167.95376 (16020819)    168.86716 (16122205)
   165.53429 (16122205)    160.07887 (19102618)
 3859724.0 |    172.28392 (16020819)    164.90281 (16020819)    165.87112 (16122205)
   163.02612 (16122205)    156.93048 (19102618)
 3859704.6 |    169.31521 (16020819)    162.05923 (16020819)    163.03710 (16122205)
   160.56373 (16122205)    154.72292 (16122205)
 3859685.2 |    166.35633 (16020819)    160.29810 (16020819)    160.17052 (16122205)
   158.14469 (16122205)    151.62139 (16122205)
 3859665.8 |    163.31370 (16020819)    157.43464 (16020819)    157.36984 (16122205)
   155.76688 (16122205)    149.78193 (16122205)
 3859646.4 |    161.87619 (16020819)    154.75013 (16020819)    154.63302 (16122205)
   153.35992 (16122205)    147.85288 (16122205)
 3859626.9 |    159.08172 (16020819)    152.14664 (16020819)    151.95778 (16122205)
   151.12804 (16122205)    145.11737 (16122205)
 3859607.5 |    156.48070 (16020819)    149.62075 (16020819)    149.37507 (16122205)
   147.78039 (16122205)    143.57313 (16122205)
 3859588.1 |    153.84872 (16020819)    148.14598 (16020819)    148.04826 (16122205)
   146.59247 (16122205)    141.44666 (16122205)
 3859568.7 |    152.64740 (16020819)    146.83367 (16020819)    146.71056 (16122205)
   145.44711 (16122205)    140.42446 (16122205)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 436
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
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, L0000186    , L0000187    , L0000188    ,
                L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489526.76              489546.06              489565.36
      489584.66              489603.96
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    203.82355 (18120603)    209.84407 (18120603)    207.83895 (18120603)
   201.65313 (20030523)    194.18978 (20030523)
 3859937.6 |    217.67857 (18120603)    220.65684 (18120603)    216.15064 (18120603)
   213.02819 (20030523)    208.56303 (20030523)
 3859918.2 |    215.76967 (18120603)    218.92048 (18120603)    213.89588 (18120603)
   210.76105 (20030523)    209.06241 (20030523)
 3859898.8 |    211.78862 (18120603)    215.10420 (18120603)    212.28837 (18120603)
   209.35970 (20030523)    206.89767 (20030523)
 3859879.4 |    207.13604 (18120603)    211.21269 (18120603)    209.21366 (18120603)
   205.00862 (20030523)    205.20260 (20030523)
 3859860.0 |    201.45094 (18120603)    206.65966 (18120603)    203.64717 (18120603)
   199.51896 (20030523)    200.81384 (20030523)
 3859840.5 |    195.57711 (18120603)    200.81430 (18120603)    198.00063 (18120603)
   192.89693 (20030523)    196.71427 (20030523)
 3859821.1 |    190.46391 (18120603)    196.84132 (18120603)    195.25334 (18120603)
   188.17454 (20030523)    190.27028 (19022322)
 3859801.7 |    185.42461 (18120603)    191.53726 (18120603)    190.82261 (18120603)
   184.25777 (18120603)    186.97133 (19022322)
 3859782.3 |    179.46105 (18120603)    187.44803 (18120603)    187.87072 (18120603)
   182.48062 (18120603)    182.18314 (19022322)
 3859762.9 |    174.36856 (18120603)    182.05600 (18120603)    184.78164 (18120603)
   180.39400 (18120603)    178.36091 (19022322)
 3859743.4 |    168.38692 (18120603)    177.87072 (18120603)    180.08949 (18120603)
   178.20117 (18120603)    174.36749 (19022322)
 3859724.0 |    163.36813 (18120603)    173.61353 (18120603)    176.83283 (18120603)
   174.34395 (18120603)    169.17282 (19022322)
 3859704.6 |    158.36913 (18120603)    168.16584 (18120603)    173.50141 (18120603)
   172.02022 (18120603)    165.77529 (18120603)
 3859685.2 |    152.58192 (18120603)    163.90359 (18120603)    170.06902 (18120603)
   169.56716 (18120603)    164.20528 (18120603)
 3859665.8 |    147.74611 (18120603)    159.64261 (18120603)    165.24782 (18120603)
   166.99248 (18120603)    162.53712 (18120603)
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489623.26
3859957.1	184.94322 (15112019)
3859937.6	199.70618 (15112019)
3859918.2	204.50888 (15112019)
3859898.8	207.65170 (15112019)
3859879.4	206.92168 (15112019)
3859860.0	202.81368 (15112019)
3859840.5	197.40757 (15112019)
3859821.1	190.94186 (15112019)
3859801.7	183.76813 (15112019)
3859782.3	179.23451 (19022322)
3859646.4	143.49212 (19102618) 155.34429 (18120603) 161.76118 (18120603) 164.33182 (18120603) 160.77148 (18120603)
3859626.9	140.96581 (19102618) 150.01349 (18120603) 158.16194 (18120603) 160.18083 (18120603) 158.92678 (18120603)
3859607.5	138.39916 (19102618) 145.73528 (18120603) 153.24006 (18120603) 155.94926 (18120603) 155.53969 (18120603)
3859588.1	135.99772 (19102618) 142.59565 (18120603) 149.72236 (18120603) 154.47785 (18120603) 153.49721 (18120603)
3859568.7	135.83286 (19102618) 139.26314 (18120603) 147.39675 (18120603) 151.59475 (18120603) 151.37169 (18120603)

 3859762.9 | 175.53454 (19022322)
 3859743.4 | 172.98279 (19022322)
 3859724.0 | 168.68174 (19022322)
 3859704.6 | 165.64980 (19022322)
 3859685.2 | 163.77445 (19022322)
 3859665.8 | 160.35648 (19022322)
 3859646.4 | 156.79373 (19022322)
 3859626.9 | 153.09709 (19022322)
 3859607.5 | 151.06751 (18120603)
 3859588.1 | 149.76077 (18120603)
 3859568.7 | 149.72818 (18120603)
↑ *** AERMOD - VERSION 23132 ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054 Lennwood\Lennwood\Lennwo ***   07/17/24
 *** AERMET - VERSION 19191 ***   ***
                       ***   01:16:45

                                  PAGE 438
 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
                                  INCLUDING SOURCE(S):   L0000176   , L0000177 , L0000178   , L0000179   , L0000180   ,
                 L0000181   , L0000182   , L0000183   , L0000184   , L0000185 , L0000186   , L0000187   , L0000188   ,
                 L0000189   , L0000190   , L0000191   , L0000192   , L0000193 , L0000194   , L0000195   , L0000196   ,
                 L0000197   , L0000198   , L0000199   , L0000200   , L0000201 , L0000202   , L0000203   ,

                                   *** NETWORK ID: UCART2   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489260.34   489284.99   489309.64
      489334.29   489358.94
 - - -

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 3859087.1 |    106.58979 (16122922)    108.99882 (16122922)    114.31548 (20040918)
   118.22809 (20040918)    117.27462 (20040918)
 3859065.6 |    105.77970 (16122922)    107.49819 (16122922)    112.95862 (20040918)
   116.82799 (20040918)    115.61317 (20040918)
 3859044.0 |    104.68888 (16122922)    106.65248 (16122922)    112.26814 (20040918)
   115.30386 (20040918)    115.01241 (20040918)
 3859022.4 |    103.87092 (16122922)    105.20544 (16122922)    110.97043 (20040918)
   114.47323 (20040918)    113.43090 (20040918)
 3859000.9 |    102.89445 (16122922)    103.87379 (16122922)    109.69570 (20040918)
   113.02324 (20040918)    112.68109 (20040918)
 3858979.3 |    102.15989 (16122922)    103.07046 (16122922)    108.90564 (20040918)
   111.60264 (20040918)    111.17871 (20040918)
 3858957.7 |    100.95305 (16122922)    101.68013 (20040918)    107.81695 (20040918)
   110.06534 (20040918)    109.55790 (20040918)
 3858936.1 |     99.83849 (16122922)    100.71814 (20040918)    107.02962 (20040918)
   109.46007 (20040918)    108.99945 (20040918)
 3858914.6 |     99.03871 (16122922)    100.10077 (20040918)    105.98795 (20040918)
   108.82114 (20040918)    107.60161 (20040918)
 3858893.0 |     97.95587 (16122922)     99.45813 (20040918)    105.75276 (20040918)
   108.15949 (20040918)    106.08251 (20040918)
 3858871.4 |     96.79430 (16122922)     98.46692 (20040918)    104.90648 (20040918)
   107.33779 (20040918)    106.91128 (20040918)
 3858849.9 |     95.63991 (16122922)     97.57504 (20040918)    103.70765 (20040918)
   106.50172 (20040918)    105.62634 (20040918)
 3858828.3 |     94.97149 (16122922)     96.87252 (20040918)    102.87793 (20040918)
   105.16308 (20040918)    104.36720 (20040918)
 3858806.7 |     93.93785 (16122922)     96.15603 (20040918)    101.84572 (20040918)
   103.99922 (20040918)    103.13300 (20040918)
 3858785.2 |     93.49860 (16122922)     95.42759 (20040918)    100.71083 (20040918)
   102.85688 (20040918)    101.76862 (20040918)
 3858763.6 |     92.78871 (16122922)     94.69297 (20040918)     99.83190 (20040918)
   101.87651 (20040918)    100.73658 (20040918)
 3858742.0 |     92.06014 (16122922)     94.10685 (20040918)     99.17009 (20040918)
   101.15956 (20040918)     99.98755 (20040918)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 439
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
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L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489383.59	489408.24	489432.89	489457.54	489482.19
3859173.4	117.74788 (20040918)	119.72844 (16020819)	121.32815 (16020819)	117.56042 (16020819)	114.22010 (15120819)
3859151.9	115.91638 (20040918)	118.00229 (16020819)	119.64975 (16020819)	116.74652 (16020819)	112.24001 (15120819)
3859130.3	115.37312 (20040918)	116.64161 (16020819)	118.07366 (16020819)	115.25060 (16020819)	110.85780 (15120819)
3859108.7	113.63306 (20040918)	115.00098 (16020819)	117.01495 (16020819)	114.47126 (16020819)	109.08811 (15120819)
3859087.1	111.79875 (20040918)	113.45236 (16020819)	115.44884 (16020819)	113.09931 (16020819)	107.35331 (15120819)
3859065.6	110.27894 (20040918)	112.23590 (16020819)	114.31919 (16020819)	111.63910 (16020819)	105.52542 (15120819)
3859044.0	109.84027 (20040918)	110.93688 (16020819)	112.82538 (16020819)	110.20820 (16020819)	104.29206 (16020819)
3859022.4	108.26335 (20040918)	109.36480 (16020819)	111.30461 (16020819)	109.39850 (16020819)	103.85058 (16020819)
3859000.9	107.83413 (20040918)	107.94944 (16020819)	109.87770 (16020819)	108.08792 (16020819)	102.65399 (16020819)
3858979.3	107.37369 (20040918)	106.66469 (16020819)	108.80829 (16020819)	106.73830 (16020819)	102.13051 (16020819)
3858957.7	105.76310 (20040918)	105.27507 (16020819)	107.44498 (16020819)	105.41480 (16020819)	101.56654 (16020819)
3858936.1	105.31999 (20040918)	104.08305 (16020819)	106.84714 (16020819)	105.50228 (16020819)	100.58025 (16020819)
3858914.6	104.71832 (20040918)	102.76097 (16020819)	105.54610 (16020819)	104.37209 (16020819)	99.53456 (16020819)
3858893.0	103.20596 (20040918)	101.48858 (16020819)	104.27191 (16020819)	103.19219 (16020819)	98.50771 (16020819)
3858871.4	102.78797 (20040918)	100.22209 (16020819)	103.02374 (16020819)	102.09703 (16020819)	97.56483 (16020819)
3858849.9	101.66014 (20040918)	98.98235 (16020819)	101.84493 (16020819)	101.01521 (16020819)	96.63145 (16020819)
3858828.3	100.39636 (20040918)	97.78077 (16020819)	100.68249 (16020819)	99.89708 (16020819)	95.65354 (16020819)
3858806.7	99.30442 (20040918)	96.59922 (16020819)	99.53614 (16020819)		

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489506.84	489531.49	489556.14	489580.79	489605.44
3859173.4	116.93594 (15120819)	115.81638 (15120819)	108.68860 (15120819)	106.25462 (19102618)	105.92290 (19102618)
3859151.9	115.29007 (15120819)	114.45629 (15120819)	108.94666 (15120819)	104.53604 (19102618)	104.20368 (19102618)
3859130.3	114.22377 (15120819)	112.94814 (15120819)	108.81487 (15120819)	102.78319 (19102618)	103.29600 (19102618)
3859108.7	112.62295 (15120819)	112.29201 (15120819)	107.64025 (15120819)	101.15387 (19102618)	102.58470 (19102618)
3859087.1	110.06064 (15120819)	110.80280 (15120819)	106.47146 (15120819)	101.23158 (15120819)	101.43159 (19102618)
3859065.6	109.04394 (15120819)	109.33162 (15120819)	107.12311 (15120819)	100.54619 (15120819)	100.10404 (19102618)

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 3859044.0 |    108.12393 (15120819)    107.87848 (15120819)    106.11544 (15120819)
    99.85592 (15120819)     98.72116 (19102618)
 3859022.4 |    107.00163 (15120819)    107.83633 (15120819)    104.75113 (15120819)
    99.16103 (15120819)     97.32640 (19102618)
 3859000.9 |    105.98472 (15120819)    106.56790 (15120819)    103.75973 (15120819)
    98.46201 (15120819)     95.92134 (19102618)
 3858979.3 |    104.51837 (15120819)    105.47600 (15120819)    102.94575 (15120819)
    97.59915 (15120819)     94.48393 (19102618)
 3858957.7 |    102.93621 (15120819)    104.22872 (15120819)    102.28303 (15120819)
    96.73524 (15120819)     93.04272 (19102618)
 3858936.1 |    101.51895 (15120819)    102.99464 (15120819)    101.29134 (15120819)
    96.34335 (15120819)     91.64392 (19102618)
 3858914.6 |     99.99082 (15120819)    101.62493 (15120819)    100.30438 (15120819)
    95.91943 (15120819)     90.23049 (19102618)
 3858893.0 |     98.48930 (15120819)    100.42185 (15120819)     99.17447 (15120819)
    95.19830 (15120819)     88.80714 (19102618)
 3858871.4 |     97.51278 (15120819)     99.50609 (15120819)     98.34531 (15120819)
    94.47503 (15120819)     88.25898 (15120819)
 3858849.9 |     96.28375 (15120819)     98.31986 (15120819)     97.37361 (15120819)
    93.74991 (15120819)     87.67942 (15120819)
 3858828.3 |     94.96139 (15120819)     97.26861 (15120819)     96.40735 (15120819)
    92.89356 (15120819)     87.20640 (15120819)
 3858806.7 |     93.75525 (15120819)     96.21768 (15120819)     95.57467 (15120819)
    92.16873 (15120819)     86.72653 (15120819)
 3858785.2 |     92.55637 (15120819)     95.16775 (15120819)     94.85280 (15120819)
    91.68657 (15120819)     86.34550 (15120819)
 3858763.6 |     91.36532 (15120819)     94.11915 (15120819)     94.00186 (15120819)
    91.06735 (15120819)     85.95078 (15120819)
 3858742.0 |     90.18225 (15120819)     92.88856 (15120819)     92.93934 (15120819)
    90.43843 (15120819)     85.72140 (15120819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 441
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                  L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                    *** NETWORK ID: UCART2   ;  NETWORK TYPE:
```

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	489630.09	489654.74	489679.39	489704.04	489728.69
3859173.4	113.19350 (18120603)	119.62763 (18120603)	120.51658 (18120603)	116.65959 (18120603)	113.40737 (19022322)
3859151.9	110.31459 (18120603)	117.30240 (18120603)	119.34487 (18120603)	116.57024 (18120603)	110.60243 (19022322)
3859130.3	107.41526 (18120603)	114.95600 (18120603)	118.00714 (18120603)	116.64313 (18120603)	110.70824 (18120603)
3859108.7	104.40646 (18120603)	112.51680 (18120603)	116.55806 (18120603)	115.92400 (18120603)	111.09841 (18120603)
3859087.1	101.12117 (18120603)	110.03157 (18120603)	114.69981 (18120603)	114.84479 (18120603)	110.68843 (18120603)
3859065.6	98.56551 (19102618)	107.49601 (18120603)	112.79764 (18120603)	113.61763 (18120603)	110.17996 (18120603)
3859044.0	97.62232 (19102618)	104.95765 (18120603)	110.82135 (18120603)	112.34827 (18120603)	109.63156 (18120603)
3859022.4	96.70472 (19102618)	102.36406 (18120603)	108.77715 (18120603)	110.98528 (18120603)	108.97744 (18120603)
3859000.9	95.70790 (19102618)	99.79656 (18120603)	106.67118 (18120603)	109.54738 (18120603)	108.25381 (18120603)
3858979.3	94.68810 (19102618)	97.16942 (18120603)	104.50990 (18120603)	108.00158 (18120603)	107.38815 (18120603)
3858957.7	93.68564 (19102618)	94.59490 (18120603)	102.33513 (18120603)	106.38450 (18120603)	106.38998 (18120603)
3858936.1	92.62145 (19102618)	92.02696 (18120603)	100.09149 (18120603)	104.70663 (18120603)	105.35293 (18120603)
3858914.6	91.53872 (19102618)	89.62699 (19102618)	97.86030 (18120603)	102.96054 (18120603)	104.22718 (18120603)
3858893.0	90.43907 (19102618)	88.90670 (19102618)	95.61120 (18120603)	101.17677 (18120603)	103.01686 (18120603)
3858871.4	89.34723 (19102618)	88.19131 (19102618)	93.34899 (18120603)	99.34930 (18120603)	101.72614 (18120603)
3858849.9	88.21510 (19102618)	87.44299 (19102618)	91.01573 (18120603)	97.44883 (18120603)	100.37781 (18120603)
3858828.3	87.07033 (19102618)	86.64276 (19102618)	88.73717 (18120603)	95.54379 (18120603)	98.97026 (18120603)
3858806.7	85.93404 (19102618)	85.83832 (19102618)	86.45914 (18120603)	93.60930 (18120603)	97.50773 (18120603)
3858785.2	84.76289 (19102618)	85.01509 (19102618)	84.10851 (18120603)	91.54527 (18120603)	95.96455 (18120603)
3858763.6	83.58322 (19102618)	84.14486 (19102618)	81.84823 (19102618)		

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):   L0000176   , L0000177 , L0000178   , L0000179   , L0000180   ,
                  L0000181   , L0000182   , L0000183   , L0000184   , L0000185 , L0000186   , L0000187   , L0000188   ,
                  L0000189   , L0000190   , L0000191   , L0000192   , L0000193 , L0000194   , L0000195   , L0000196   ,
                  L0000197   , L0000198   , L0000199   , L0000200   , L0000201 , L0000202   , L0000203   ,

                                    *** NETWORK ID: UCART2   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489753.34
 -

 3859173.4 | 116.85067 (19022322)
 3859151.9 | 115.08782 (19022322)
 3859130.3 | 113.00719 (19022322)
 3859108.7 | 110.69847 (19022322)
 3859087.1 | 108.30235 (19022322)
 3859065.6 | 105.80524 (20030523)
 3859044.0 | 103.34769 (20030523)
 3859022.4 | 103.10234 (18120603)
 3859000.9 | 103.02267 (18120603)
 3858979.3 | 102.84003 (18120603)
 3858957.7 | 102.58695 (18120603)
 3858936.1 | 102.19567 (18120603)
 3858914.6 | 101.70654 (18120603)
 3858893.0 | 101.11264 (18120603)
 3858871.4 | 100.44251 (18120603)
 3858849.9 | 99.68389 (18120603)
 3858828.3 | 98.84438 (18120603)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
                                  INCLUDING SOURCE(S):   L0000176   , L0000177 , L0000178   , L0000179   , L0000180   ,
                 L0000181   , L0000182   , L0000183   , L0000184   , L0000185 , L0000186   , L0000187   , L0000188   ,
                 L0000189   , L0000190   , L0000191   , L0000192   , L0000193 , L0000194   , L0000195   , L0000196   ,
                 L0000197   , L0000198   , L0000199   , L0000200   , L0000201 , L0000202   , L0000203   ,

                                   *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 488584.66   488614.48   488644.30
      488674.12   488703.94
 -

 3858905.0 | 72.34697 (20090924)   72.71060 (20090924)   72.81292 (15013017)
    74.42206 (15013017)   76.34395 (20040923)
 3858880.0 | 71.32415 (20090924)   70.85207 (20090924)   72.31854 (15013017)
    72.87394 (15013017)   76.87324 (20040923)
 3858855.1 | 70.68979 (20090924)   69.46051 (15013017)   72.07755 (15013017)
    72.59346 (20040923)   77.40328 (16020520)
 3858830.2 | 69.08312 (20090924)   69.31883 (15013017)   71.59644 (15013017)
    75.24899 (20040923)   77.48105 (16020520)
 3858805.3 | 68.12744 (20090924)   71.68087 (15013017)   70.12171 (15013017)
    73.09887 (20040923)   77.27676 (16020520)
 3858780.3 | 66.99776 (15013017)   68.69854 (15013017)   68.90655 (20040923)
    73.24206 (16020520)   77.91321 (16020520)
 3858755.4 | 66.25853 (15013017)   67.55501 (15013017)   68.88518 (20040923)
    73.50360 (16020520)   77.59737 (16012217)
 3858730.5 | 66.28999 (15013017)   66.31186 (15013017)   69.32409 (20040923)

```
   73.41409 (16020520)     77.26511 (16012217)
 3858705.5 |     65.57393 (15013017)     65.32565 (20040923)     69.31439 (16020520)
   73.26888 (16020520)     77.29635 (16012217)
 3858680.6 |     64.64786 (15013017)     65.44996 (20040923)     70.52215 (16020520)
   73.77520 (16020520)     78.64561 (16012217)
 3858655.7 |     63.93092 (15013017)     65.35244 (20040923)     69.83176 (16020520)
   73.81882 (16012217)     78.23505 (16012217)
 3858630.8 |     63.25256 (20040923)     65.85592 (16020520)     70.43849 (16020520)
   74.10567 (16012217)     77.69725 (16012217)
 3858605.8 |     64.15009 (20040923)     66.99121 (16020520)     70.29755 (16020520)
   74.69810 (16012217)     76.94394 (16012217)
 3858580.9 |     64.76041 (20040923)     67.84896 (16020520)     70.62476 (16012217)
   74.55770 (16012217)     76.69817 (16012217)
 3858556.0 |     63.74582 (20040923)     67.85551 (16020520)     71.05764 (16012217)
   74.84286 (16012217)     75.57215 (16012217)
 3858531.0 |     64.97488 (16020520)     68.43147 (16020520)     71.74116 (16012217)
   74.30268 (16012217)     74.88665 (16012217)
 3858506.1 |     65.39132 (16020520)     68.14581 (16020520)     72.43522 (16012217)
   74.32262 (16012217)     74.22718 (16012217)
 3858481.2 |     66.11850 (16020520)     68.61197 (16012217)     72.95470 (16012217)
   74.06919 (16012217)     73.32479 (16012217)
 3858456.2 |     66.67351 (16020520)     69.57483 (16012217)     72.62938 (16012217)
   73.00544 (16012217)     71.61888 (16012217)
 3858431.3 |     66.64625 (16020520)     70.27339 (16012217)     72.58895 (16012217)
   72.33632 (16012217)     69.79860 (16012217)
 3858406.4 |     66.22163 (16020520)     70.32483 (16012217)     71.20216 (16012217)
   70.88517 (16012217)     68.46445 (16012217)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 444
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                  L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                    *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
```

**

Y-COORD (METERS)	X-COORD (METERS)				
	488733.76	488763.58	488793.40	488823.22	488853.04
3858905.0	81.89019 (16020520)	88.11448 (16012217)	91.14432 (16012217)	91.98689 (16012217)	89.10214 (16012217)
3858880.0	82.79103 (16020520)	87.44565 (16012217)	90.93147 (16012217)	88.91410 (16012217)	85.32205 (16012217)
3858855.1	83.11956 (16020520)	85.98007 (16012217)	88.71776 (16012217)	87.51089 (16012217)	82.30930 (16012217)
3858830.2	81.47815 (16012217)	85.56188 (16012217)	87.02481 (16012217)	85.04456 (16012217)	80.04980 (20122517)
3858805.3	81.71706 (16012217)	85.59095 (16012217)	86.11312 (16012217)	82.51613 (16012217)	78.72520 (20122517)
3858780.3	82.40854 (16012217)	85.36467 (16012217)	84.26685 (16012217)	80.63653 (16012217)	77.55459 (20122517)
3858755.4	82.84489 (16012217)	84.13361 (16012217)	82.89212 (16012217)	78.08913 (20122517)	77.78554 (18122220)
3858730.5	81.50017 (16012217)	82.60372 (16012217)	80.58784 (16012217)	77.00938 (20122517)	77.43822 (18122220)
3858705.5	80.54870 (16012217)	80.89656 (16012217)	78.23837 (16012217)	74.99143 (20122517)	77.35973 (18122220)
3858680.6	80.31535 (16012217)	79.03609 (16012217)	75.74047 (16012217)	72.90356 (20122517)	77.86162 (18122220)
3858655.7	79.22954 (16012217)	77.84978 (16012217)	74.23395 (20122517)	72.16115 (18122220)	77.49186 (18122220)
3858630.8	78.51308 (16012217)	75.78950 (16012217)	72.58938 (20122517)	72.78775 (18122220)	77.52739 (18122220)
3858605.8	76.98673 (16012217)	73.62108 (16012217)	71.63791 (20122517)	73.03832 (18122220)	77.10771 (18122220)
3858580.9	76.02772 (16012217)	72.06272 (16012217)	69.81456 (20122517)	73.61635 (18122220)	77.01624 (18122220)
3858556.0	74.91868 (16012217)	71.81398 (20122517)	68.78380 (20122517)	73.87264 (18122220)	76.14369 (18122220)
3858531.0	72.90206 (16012217)	70.42533 (20122517)	68.87916 (18122220)	73.55190 (18122220)	75.15619 (18122220)
3858506.1	71.62775 (16012217)	68.71780 (20122517)	69.52806 (18122220)	73.30908 (18122220)	74.75722 (18122220)
3858481.2	69.56141 (16012217)	67.78356 (20122517)	70.06378 (18122220)	73.33758 (18122220)	74.48263 (18122220)
3858456.2	68.92125 (20122517)	66.75799 (20122517)	70.22128 (18122220)	73.25705 (18122220)	74.00634 (18122220)
3858431.3	67.43064 (20122517)	65.47612 (18122220)	70.64537 (18122220)	72.70466 (18122220)	72.09660 (18122220)
3858406.4	66.67012 (20122517)	65.87303 (18122220)	70.48137 (18122220)	72.43703 (18122220)	71.27179 (18122220)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 488882.86	488912.68	488942.50	488972.32	489002.14
3858905.0	82.98488 (20122517)	87.99845 (18122220)	89.42854 (18122220)	89.48311 (18122220)	84.90994 (18122220)
3858880.0	82.13688 (18122220)	87.59774 (18122220)	88.81555 (18122220)	87.22681 (18122220)	82.94220 (18122220)
3858855.1	82.37322 (18122220)	87.60656 (18122220)	88.06310 (18122220)	85.80051 (18122220)	81.56867 (18010221)
3858830.2	82.41431 (18122220)	87.45644 (18122220)	87.28502 (18122220)	85.24560 (18122220)	81.72345 (18010221)
3858805.3	82.17011 (18122220)	86.27215 (18122220)	86.29129 (18122220)	84.65885 (18122220)	82.17693 (18010221)
3858780.3	83.26319 (18122220)	86.17561 (18122220)	85.29099 (18122220)	81.30272 (18122220)	82.70112 (18010221)
3858755.4	83.40924 (18122220)	85.50565 (18122220)	83.36442 (18122220)	78.69917 (18122220)	82.89446 (18010221)
3858730.5	82.62852 (18122220)	83.37615 (18122220)	81.27094 (18122220)	76.16839 (18122220)	82.70733 (18010221)
3858705.5	81.18570 (18122220)	81.80937 (18122220)	79.21056 (18122220)	75.01370 (18010221)	82.05350 (18010221)
3858680.6	81.66439 (18122220)	80.95603 (18122220)	77.74816 (18122220)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489031.96	489061.78	489091.60
3858655.7	80.58679 (18122220)	79.31599 (18122220)	75.60433 (18122220)
	75.32318 (18010221)	82.12370 (18010221)	
	75.38625 (18010221)	81.64527 (18010221)	
3858630.8	79.49965 (18122220)	77.50322 (18122220)	73.42755 (18122220)
	75.50053 (18010221)	81.18322 (18010221)	
3858605.8	78.29891 (18122220)	75.63223 (18122220)	71.16186 (18122220)
	75.74173 (18010221)	80.64377 (18010221)	
3858580.9	76.89338 (18122220)	73.71455 (18122220)	68.89581 (18122220)
	75.79305 (18010221)	80.37373 (18010221)	
3858556.0	76.04797 (18122220)	72.52980 (18122220)	69.01031 (18010221)
	75.67703 (18010221)	79.82249 (18010221)	
3858531.0	74.59293 (18122220)	71.28557 (18122220)	69.40736 (18010221)
	75.72782 (18010221)	78.99651 (18010221)	
3858506.1	73.69968 (18122220)	69.42128 (18122220)	69.93489 (18010221)
	75.89408 (18010221)	78.68438 (18010221)	
3858481.2	72.30792 (18122220)	68.10307 (18122220)	70.33370 (18010221)
	75.59893 (18010221)	78.31559 (18010221)	
3858456.2	71.38964 (18122220)	66.18088 (18122220)	70.48234 (18010221)
	75.23379 (18010221)	77.46759 (18010221)	
3858431.3	69.50823 (18122220)	64.81240 (18122220)	70.55554 (18010221)
	75.15358 (18010221)	77.33312 (18010221)	
3858406.4	68.39547 (18122220)	64.34701 (18010221)	70.78848 (18010221)
	74.92096 (18010221)	76.72731 (18010221)	

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      489121.42              489151.24
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S):   L0000176   , L0000177 , L0000178   , L0000179   , L0000180   ,
L0000181   , L0000182   , L0000183   , L0000184   , L0000185 , L0000186   , L0000187   , L0000188   ,
L0000189   , L0000190   , L0000191   , L0000192   , L0000193 , L0000194   , L0000195   , L0000196   ,
L0000197   , L0000198   , L0000199   , L0000200   , L0000201 , L0000202   , L0000203   ,

*** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 489181.06
3858905.0	93.03077 (19011424)
3858880.0	91.65353 (19011424)
3858855.1	89.74806 (19011424)
3858830.2	88.45817 (19011424)
3858805.3	87.15680 (19011424)
3858780.3	85.23532 (19011424)
3858755.4	83.25479 (19011424)
3858730.5	82.84369 (20022718)
3858705.5	82.25309 (20022718)
3858680.6	80.98618 (20022718)
3858655.7	79.56484 (20022718)
3858630.8	77.99243 (20022718)
3858605.8	76.76389 (20022718)
3858580.9	75.70191 (20022718)
3858556.0	74.33747 (20022718)
3858531.0	73.28845 (20022718)
3858506.1	72.36544 (18020119)
3858481.2	71.44851 (18020119)
3858456.2	70.86930 (16122922)
3858431.3	70.55245 (16122922)
3858406.4	70.20923 (16122922)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489386.10	489460.62	489535.14	489609.66	489684.18
3861675.8	109.30644 (15010420)	116.78819 (20122019)	117.32273 (16020720)	117.69722 (16020722)	114.94894 (19123008)
3861650.6	113.00073 (15010420)	120.08745 (20021406)	122.08932 (16020720)	121.74468 (16020722)	118.24877 (19123008)
3861625.5	116.75166 (15010420)	123.06269 (20021406)	125.87255 (19010903)	124.83389 (16020722)	120.85195 (19123008)
3861600.3	120.38593 (15010420)	127.85351 (20021406)	129.57990 (19010903)	127.82676 (16020722)	126.76880 (19121118)
3861575.2	126.65231 (15010420)	131.28190 (20021406)	132.98244 (19010903)	130.70449 (16020722)	131.98001 (19121118)
3861550.1	130.99456 (15010420)	135.21565 (20021406)	137.54496 (19010903)	134.92623 (16122202)	134.63723 (19121118)
3861524.9	134.99526 (15010420)	139.71372 (20021406)	141.82321 (19010903)	139.15754 (16122202)	137.70921 (19121118)
3861499.8	139.20091 (15010420)	144.00769 (20021406)	145.75457 (19010903)	143.80184 (16122202)	141.86730 (18120822)
3861474.6	143.62604 (15010420)	148.26710 (20021406)	149.71443 (19010903)	148.64127 (19123008)	147.14124 (18120822)
3861449.5	147.83113 (15010420)	152.69980 (20021406)	153.99302 (16020722)	153.42983 (19123008)	149.58090 (18120822)
3861424.4	152.72010 (15010420)	157.55352 (20021406)	159.86563 (16020722)	157.66617 (19123008)	155.11198 (19122119)

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 3861399.2 |    157.87933 (15010420)    162.11956 (20021406)    165.52551 (16020722)
   162.24853 (19123008)    162.33785 (19122119)
 3861374.1 |    163.06412 (15010420)    166.60860 (20021406)    171.70370 (16020722)
   166.43939 (19123008)    168.31391 (19122119)
 3861348.9 |    168.53464 (15010420)    171.67584 (19121219)    177.89406 (16020722)
   173.40498 (19121118)    172.79331 (19122119)
 3861323.8 |    174.31373 (15010420)    178.10608 (19121219)    184.65034 (16020722)
   179.92734 (19121118)    179.61062 (19010320)
 3861298.7 |    180.73596 (15010420)    184.49792 (19121219)    191.42371 (16020722)
   187.38225 (18120822)    187.05767 (19010320)
 3861273.5 |    188.21390 (15010420)    190.81387 (19121219)    197.55153 (16020722)
   195.70174 (18120822)    191.79435 (19122222)
 3861248.4 |    197.28527 (15010420)    199.98918 (19010903)    203.28023 (16020722)
   202.71158 (18120822)    200.45939 (16122718)
 3861223.2 |    207.50034 (15010420)    210.95567 (19010903)    209.25447 (16020722)
   211.09331 (19122119)    215.94184 (16122718)
 3861198.1 |    218.62690 (15010420)    222.93308 (19010903)    218.53886 (15010520)
   220.03018 (19122119)    229.67173 (16122718)
 3861173.0 |    230.77803 (15010420)    235.59501 (19010903)    227.25472 (15010520)
   228.47598 (19122119)    241.82870 (20010318)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 449
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                  INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                  L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                   *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489758.70              489833.22              489907.74
      489982.26              490056.78
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 3861675.8 |    112.17847 (18120822)    111.15296 (19010320)    106.87696 (16122118)
   114.38494 (18010223)    109.19892 (19122908)
 3861650.6 |    115.14666 (20010322)    114.92345 (19010320)    113.66717 (16122718)
   117.38333 (19122908)    109.91974 (18012324)
 3861625.5 |    118.99031 (19122119)    118.21329 (19010320)    121.52787 (16122718)
   122.37685 (19122908)    115.53945 (19022504)
 3861600.3 |    126.06766 (19122119)    121.38666 (19010320)    127.49899 (16122718)
   127.10603 (19122908)    121.72918 (19022504)
 3861575.2 |    129.84600 (19122119)    123.52046 (19122222)    131.84763 (16122718)
   129.01488 (19122908)    124.17138 (19022504)
 3861550.1 |    132.24773 (19122119)    126.67270 (16122118)    135.75253 (16122718)
   128.13371 (19122908)    127.24307 (16010323)
 3861524.9 |    134.74260 (19122119)    131.51940 (16122718)    139.97618 (19122908)
   133.47285 (19022504)    132.36850 (16122308)
 3861499.8 |    138.91927 (19010320)    140.60995 (16122718)    145.31054 (19122908)
   140.45584 (19022504)    137.45522 (16122308)
 3861474.6 |    143.39958 (19010320)    148.91601 (16122718)    148.60652 (19122908)
   146.30284 (19022504)    139.01615 (16122308)
 3861449.5 |    147.71183 (19010320)    156.12147 (16122718)    149.55791 (19122908)
   148.21445 (16010323)    138.01796 (16122308)
 3861424.4 |    150.86740 (19122222)    161.90074 (16122718)    155.84854 (19022504)
   153.96162 (16122308)    143.88180 (16122222)
 3861399.2 |    156.49460 (16122118)    168.18382 (19122908)    162.57347 (19022504)
   158.36067 (16122308)    148.74691 (16011801)
 3861374.1 |    166.83791 (16122718)    174.98165 (19122908)    166.34290 (16010323)
   159.68458 (16122308)    151.46035 (16011801)
 3861348.9 |    178.12974 (16122718)    177.87569 (19122908)    171.43894 (16122308)
   162.51257 (16122222)    153.89303 (18121521)
 3861323.8 |    188.02557 (16122718)    177.77608 (19022504)    180.23587 (16122308)
   169.60787 (16011801)    160.58964 (16022523)
 3861298.7 |    195.75129 (16122718)    188.36530 (19022504)    185.51683 (16122308)
   174.85002 (16011801)    166.28702 (16022523)
 3861273.5 |    203.77888 (20010318)    196.34765 (16010323)    186.85402 (16122308)
   178.50709 (18121521)    166.03442 (19120601)
 3861248.4 |    210.70600 (20022002)    206.99688 (16122308)    195.98463 (16011801)
   186.48862 (16022523)    174.89496 (19120601)
 3861223.2 |    215.17729 (20022002)    218.13784 (16122308)    202.84525 (16011801)
   191.72905 (16022523)    177.24810 (19120601)
 3861198.1 |    224.67187 (19022504)    223.21345 (16122308)    207.39620 (18121521)
   196.74177 (19120601)    185.98071 (16021120)
 3861173.0 |    235.91721 (16010323)    227.89830 (16011801)    218.13728 (16022523)
   204.45990 (19120601)    190.67887 (16021120)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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                                   PAGE 450
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	490131.30	490205.82	490280.34	490354.86	490429.38
3861675.8	107.59876 (19022504)	103.68980 (16122308)	97.71526 (16122222)	92.44279 (16011801)	90.50643 (16022523)
3861650.6	109.85471 (16010323)	105.19915 (16122308)	101.38476 (16011801)	93.35011 (18121521)	92.77001 (16022523)
3861625.5	113.21211 (16122308)	105.94191 (20120819)	105.63336 (16011801)	97.98663 (18121521)	94.33927 (16022523)
3861600.3	119.06384 (16122308)	112.45790 (16122222)	107.09689 (16011801)	104.40255 (16022523)	97.12537 (19122621)
3861575.2	120.80268 (16122308)	115.57883 (16011801)	108.10325 (18121521)	106.20115 (16022523)	100.58587 (19120601)
3861550.1	122.64133 (16122308)	119.06000 (16011801)	112.98958 (18121521)	106.01889 (16022523)	103.64498 (19120601)
3861524.9	125.17761 (16122222)	119.46293 (16011801)	117.33374 (16022523)	109.32280 (19120601)	102.77040 (19120601)
3861499.8	128.68681 (16122222)	121.73701 (18121521)	120.50415 (16022523)	114.07265 (19120601)	105.05154 (16021120)
3861474.6	132.87304 (16011801)	128.48495 (18121521)	121.17029 (19122621)	114.43001 (19120601)	109.07574 (16021120)
3861449.5	137.19279 (16011801)	134.27076 (16022523)	124.62989 (19120601)	113.89516 (16021120)	109.38855 (16021120)
3861424.4	136.88830 (18121521)	135.38060 (16022523)	126.90167 (19120601)	118.42467 (16021120)	112.38256 (18011823)
3861399.2	141.67731 (16022523)	134.48781 (19120601)	125.05028 (19120601)	119.77337 (16021120)	113.15175 (15120519)
3861374.1	147.18361 (16022523)	139.72801 (19120601)	129.93255 (16021120)	122.19096 (18011823)	114.05510 (15120519)

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 3861348.9 |    147.79551 (16022523)    141.13157 (19120601)    132.58207 (16021120)
   123.80411 (15120519)    129.52699 (18020819)
 3861323.8 |    152.17535 (19120601)    143.06830 (16021120)    134.94989 (18011823)
   127.16206 (18020819)    142.22724 (18020819)
 3861298.7 |    157.53108 (19120601)    147.36271 (16021120)    137.52056 (15120519)
   145.08395 (18020819)    149.66728 (18020819)
 3861273.5 |    157.60825 (16021120)    149.60681 (18011823)    143.50792 (18020819)
   158.33142 (18020819)    150.77862 (18020819)
 3861248.4 |    164.46451 (16021120)    153.30402 (15120519)    163.57546 (18020819)
   164.79829 (18020819)    151.48049 (15011619)
 3861223.2 |    166.53722 (18011823)    163.24178 (18020819)    178.79752 (18020819)
   163.33298 (18020819)    157.57309 (15011619)
 3861198.1 |    172.34415 (15120519)    186.95321 (18020819)    185.94248 (18020819)
   170.41279 (15011619)    161.45638 (18011122)
 3861173.0 |    186.74332 (18020819)    202.19346 (18020819)    183.77767 (15011619)
   174.89324 (18011122)    160.50692 (18020124)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 451
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                  INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                  L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                   *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       490503.90              490578.42              490652.94
      490727.46              490801.98
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |     85.27861 (19122621)     83.21857 (19120601)     78.76531 (16021120)
    77.98126 (16021120)     74.96153 (18011823)
 3861650.6 |     87.11897 (19120601)     83.86817 (19120601)     82.66752 (16021120)
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    79.95678 (18011823)     76.11451 (19022404)
 3861625.5 |     90.75598 (19120601)     85.55279 (16021120)     84.75548 (16021120)
    81.51036 (18011823)     76.79156 (19022404)
 3861600.3 |     94.15384 (19120601)     89.95230 (16021120)     85.35670 (18011823)
    81.64714 (19022404)     80.51246 (18020819)
 3861575.2 |     92.65897 (19120601)     91.85143 (16021120)     87.59168 (18011823)
    82.32387 (19022404)     89.37788 (18020819)
 3861550.1 |     96.88725 (16021120)     91.98222 (18011823)     87.98478 (19022404)
    87.66461 (18020819)     96.42545 (18020819)
 3861524.9 |     99.31179 (16021120)     94.77831 (18011823)     88.75525 (19022404)
    97.54820 (18020819)    100.86119 (18020819)
 3861499.8 |     99.20132 (16021120)     95.19258 (19022404)     96.29905 (18020819)
   104.85274 (18020819)    102.80531 (18020819)
 3861474.6 |    102.73701 (18011823)     95.89376 (15120519)    106.41766 (18020819)
   108.86328 (18020819)    101.35967 (18020819)
 3861449.5 |    103.84669 (15120519)    105.95749 (18020819)    113.88036 (18020819)
   109.72541 (18020819)    100.94595 (15011619)
 3861424.4 |    104.37212 (15120519)    116.97013 (18020819)    117.52926 (18020819)
   106.26158 (18020819)    104.97094 (15011619)
 3861399.2 |    116.62790 (18020819)    124.17357 (18020819)    116.79575 (18020819)
   110.71930 (15011619)    105.62154 (18011122)
 3861374.1 |    128.36482 (18020819)    127.22299 (18020819)    115.16184 (15011619)
   113.50689 (15011619)    106.98810 (18011122)
 3861348.9 |    135.75613 (18020819)    125.06464 (18020819)    120.57152 (15011619)
   114.52149 (18011122)    106.78623 (18020124)
 3861323.8 |    137.66950 (18020819)    127.51478 (15011619)    122.02874 (18011122)
   113.75653 (18020124)    107.04188 (19020204)
 3861298.7 |    133.98386 (15011619)    132.43998 (15011619)    123.14980 (18011122)
   115.23418 (19020204)    106.51106 (19020204)
 3861273.5 |    141.74425 (15011619)    133.95853 (18011122)    122.88618 (18020124)
   114.73940 (19020204)    109.95499 (18022523)
 3861248.4 |    144.45428 (18011122)    135.00034 (18020124)    123.57477 (19020204)
   116.13754 (15123001)    115.06468 (18011721)
 3861223.2 |    146.53137 (18011122)    136.98299 (19020204)    123.94914 (15123001)
   122.09177 (18011721)    116.18447 (18011522)
 3861198.1 |    147.27055 (19020204)    135.19794 (15123001)    130.82446 (18011721)
   123.34360 (18011522)    116.52868 (18011522)
 3861173.0 |    147.06008 (19020204)    142.28125 (18011721)    133.02557 (18011721)
   124.32903 (18011522)    114.23824 (18120921)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 452
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
```

, L0000178   , L0000179   , L0000180   ,
                L0000181   , L0000182   , L0000183   , L0000184   , L0000185
, L0000186   , L0000187   , L0000188   ,
                L0000189   , L0000190   , L0000191   , L0000192   , L0000193
, L0000194   , L0000195   , L0000196   ,
                L0000197   , L0000198   , L0000199   , L0000200   , L0000201
, L0000202   , L0000203   ,

                                *** NETWORK ID: UCART4   ; NETWORK TYPE:
GRIDCART ***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 490876.50
 -
- -

 3861675.8 | 71.16799 (19022404)
 3861650.6 | 74.19098 (18020819)
 3861625.5 | 82.25404 (18020819)
 3861600.3 | 88.69574 (18020819)
 3861575.2 | 93.26469 (18020819)
 3861550.1 | 95.30739 (18020819)
 3861524.9 | 94.66711 (18020819)
 3861499.8 | 91.83100 (15011619)
 3861474.6 | 96.88622 (15011619)
 3861449.5 | 99.07280 (15011619)
 3861424.4 | 99.59985 (18011122)
 3861399.2 | 99.49279 (18011122)
 3861374.1 | 99.46502 (18020124)
 3861348.9 | 100.21588 (19020204)
 3861323.8 | 99.01543 (15123001)
 3861298.7 | 103.21527 (18011721)
 3861273.5 | 106.85352 (18011721)
 3861248.4 | 107.79397 (18011522)
 3861223.2 | 108.16771 (18011522)
 3861198.1 | 106.38504 (18120921)
 3861173.0 | 109.62209 (20120318)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***

INCLUDING SOURCE(S): L0000176 , L0000177
, L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185
, L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193
, L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201
, L0000202 , L0000203 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	491611.20	491641.99	491672.78	491703.57	491734.36
3861693.5	58.97824 (19020204)	58.18350 (19020204)	57.14007 (19020204)	55.28987 (19020204)	53.77993 (19022507)
3861664.1	58.78923 (19020204)	57.11227 (19020204)	55.70045 (19022507)	55.29462 (15123001)	55.06050 (15123001)
3861634.6	57.88613 (19022507)	57.66727 (15123001)	57.24457 (15123001)	56.60433 (15123001)	56.49855 (18011721)
3861605.2	59.53489 (15123001)	59.05852 (18011721)	58.95164 (18011721)	58.60091 (18011721)	58.07851 (18011721)
3861575.7	61.52319 (18011721)	61.06072 (18011721)	60.18160 (18011721)	59.14748 (18011721)	57.75673 (18011721)
3861546.3	62.46536 (18011721)	61.27108 (18011721)	60.05549 (18011522)	59.31219 (18011522)	58.40059 (18011522)
3861516.8	62.62113 (18011522)	61.72105 (18011522)	60.52955 (18011522)	59.07717 (18011522)	57.50435 (18011522)
3861487.4	62.55797 (18011522)	60.97184 (18011522)	59.34527 (16123005)	58.22266 (16123005)	56.90246 (18120921)
3861457.9	61.45973 (16123005)	60.15272 (18120921)	58.70861 (18120921)	57.74041 (20120318)	57.62467 (20120318)
3861428.5	61.11100 (20120318)	60.86045 (20120318)	60.58166 (20120318)	60.05495 (20120318)	59.35294 (20120318)
3861399.0	63.62205 (20120318)	62.71020 (20120318)	61.80217 (20120318)	60.61728 (20120318)	59.87099 (19020808)
3861369.6	64.10621 (20120318)	63.31147 (19020808)	62.72092 (19020808)	62.62726 (18120708)	62.46285 (18120708)
3861340.1	66.59455 (18120708)	66.32208 (18120708)	65.85699 (18120708)	65.21330 (18120708)	64.40559 (18120708)
3861310.7	69.11881 (18120708)	68.05790 (18120708)	66.90799 (18120708)	65.61599 (18120708)	64.19937 (18120708)
3861281.2	69.31877 (18120708)	67.58594 (18120708)	65.74826 (18120708)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	491765.15	491795.94	491826.73	491857.52	491888.31
3861693.5	52.99751 (15123001)	52.92878 (15123001)	52.61744 (15123001)	52.03128 (15123001)	51.97045 (18011721)
3861664.1	54.51748 (15123001)	54.10976 (18011721)	53.98688 (18011721)	53.56499 (18011721)	53.05651 (18011721)
3861634.6	56.13765 (18011721)	55.88011 (18011721)	55.06031 (18011721)	53.96828 (18011721)	52.77701 (18011721)

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 3861605.2 |     57.07560 (18011721)     55.99999 (18011721)     54.89454 (18011522)
    54.25093 (18011522)     53.46782 (18011522)
 3861575.7 |     57.07394 (18011522)     56.35672 (18011522)     55.33950 (18011522)
    54.14878 (18011522)     52.94881 (18011522)
 3861546.3 |     57.23165 (18011522)     55.98801 (18011522)     54.43217 (18011522)
    53.46167 (16123005)     52.47463 (16123005)
 3861516.8 |     56.11921 (16123005)     55.09680 (16123005)     53.93209 (16123005)
    52.66374 (18120921)     52.17914 (20120318)
 3861487.4 |     55.50175 (18120921)     54.71680 (20120318)     54.61664 (20120318)
    54.35321 (20120318)     54.03294 (20120318)
 3861457.9 |     57.27418 (20120318)     56.80718 (20120318)     56.23361 (20120318)
    55.46301 (20120318)     54.56081 (20120318)
 3861428.5 |     58.49076 (20120318)     57.48386 (20120318)     56.61672 (19020808)
    56.12620 (19020808)     55.59150 (18120708)
 3861399.0 |     59.33419 (19020808)     59.00811 (18120708)     58.87461 (18120708)
    58.64008 (18120708)     58.25653 (18120708)
 3861369.6 |     62.18484 (18120708)     61.62153 (18120708)     60.96818 (18120708)
    60.17618 (18120708)     59.31472 (18120708)
 3861340.1 |     63.44875 (18120708)     62.35777 (18120708)     61.26630 (18120708)
    59.83258 (18120708)     58.59496 (18120708)
 3861310.7 |     62.73699 (18120708)     61.11934 (18120708)     59.48372 (18120708)
    57.67134 (18120708)     56.50017 (15020502)
 3861281.2 |     60.43029 (15020502)     59.14033 (15020502)     57.82938 (16122023)
    57.10831 (16122023)     56.25218 (16122023)
 3861251.8 |     60.21846 (16122023)     59.23218 (15020408)     58.84781 (15020408)
    58.30429 (15020408)     57.61260 (15020408)
 3861222.3 |     61.82559 (15020408)     60.96355 (15020408)     60.07266 (15020408)
    59.10239 (15020408)     57.95295 (15020408)
 3861192.9 |     61.96314 (15020408)     60.55718 (15020408)     59.27247 (15020408)
    57.93812 (15020408)     56.50975 (15020408)
 3861163.4 |     59.87549 (15020408)     58.25464 (15020408)     57.46008 (19022503)
    56.95652 (19022503)     56.33624 (19022503)
 3861134.0 |     60.45661 (19022503)     59.76599 (19022503)     58.56552 (19022503)
    57.60800 (19022503)     56.50434 (19022503)
 3861104.5 |     60.32978 (16120801)     59.36116 (16120801)     58.52802 (16120801)
    57.71631 (16120801)     56.82157 (16120801)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                    INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                 L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
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                L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                  *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       491919.10               491949.89              491980.68
      492011.47              492042.26
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3861693.5 |     51.30551 (18011721)     50.93613 (18011721)     50.31301 (18011721)
    49.49917 (18011721)     48.51234 (18011721)
 3861664.1 |     52.18625 (18011721)     51.21492 (18011721)     50.33952 (18011522)
    49.90611 (18011522)     49.26587 (18011522)
 3861634.6 |     52.15278 (18011522)     51.62538 (18011522)     50.88161 (18011522)
    50.02692 (18011522)     48.98828 (18011522)
 3861605.2 |     52.51214 (18011522)     51.44742 (18011522)     50.19887 (18011522)
    49.08659 (16123005)     48.41874 (16123005)
 3861575.7 |     51.49808 (16123005)     50.72449 (16123005)     49.86984 (16123005)
    48.72551 (16123005)     47.73360 (18120921)
 3861546.3 |     51.31550 (16123005)     50.09917 (18120921)     49.61812 (20120318)
    49.71249 (20120318)     49.45821 (20120318)
 3861516.8 |     52.09057 (20120318)     51.80872 (20120318)     51.38895 (20120318)
    51.10513 (20120318)     50.47686 (20120318)
 3861487.4 |     53.51919 (20120318)     52.87182 (20120318)     52.01119 (20120318)
    51.13280 (20120318)     50.96263 (19020808)
 3861457.9 |     53.68382 (19020808)     53.32622 (19020808)     52.91213 (19020808)
    52.81022 (18120708)     52.97223 (18120708)
 3861428.5 |     55.63950 (18120708)     55.54264 (18120708)     55.30826 (18120708)
    54.89365 (18120708)     54.60908 (18120708)
 3861399.0 |     57.78858 (18120708)     57.19007 (18120708)     56.41879 (18120708)
    55.54019 (18120708)     54.76584 (18120708)
 3861369.6 |     58.17163 (18120708)     57.20208 (18120708)     55.92602 (18120708)
    54.62702 (18120708)     53.41009 (18120708)
 3861340.1 |     56.89070 (18120708)     55.45072 (18120708)     53.85093 (18120708)
    52.83874 (15020502)     51.92530 (15020502)
 3861310.7 |     55.23328 (15020502)     54.04816 (16122023)     53.41351 (16122023)
    52.70504 (16122023)     52.02115 (16122023)
 3861281.2 |     55.32339 (16122023)     54.87266 (15020408)     54.42495 (15020408)
    54.04007 (15020408)     53.38033 (15020408)
 3861251.8 |     56.94289 (15020408)     56.19300 (15020408)     55.37063 (15020408)
    54.53276 (15020408)     53.44180 (15020408)
 3861222.3 |     56.90656 (15020408)     55.75244 (15020408)     54.50291 (15020408)
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	492073.05	492103.84	492134.63	492165.42	492196.21
3861693.5	47.68294 (18011522)	47.14448 (18011522)	46.50351 (18011522)	45.73093 (18011522)	44.80153 (18011522)
3861664.1	47.97657 (18011522)	47.02402 (18011522)	46.03257 (18011522)	44.89518 (18011522)	44.27439 (16123005)
3861634.6	47.66172 (18011522)	46.44067 (16123005)	45.59686 (16123005)	44.58401 (16123005)	43.83454 (16123005)
3861605.2	47.42545 (16123005)	46.34024 (16123005)	45.06535 (18120921)	44.55538 (20120318)	44.57706 (20120318)
3861575.7	47.53936 (20120318)	47.15315 (20120318)	47.04511 (20120318)	46.39255 (20120318)	45.83423 (20120318)

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 3861546.3 |     48.95333 (20120318)     48.45828 (20120318)     47.93564 (20120318)
    47.19214 (20120318)     46.39878 (20120318)
 3861516.8 |     49.48443 (20120318)     48.69288 (20120318)     48.22822 (19020808)
    47.95379 (19020808)     47.39950 (19020808)
 3861487.4 |     50.27196 (19020808)     49.92236 (18120708)     49.90291 (18120708)
    49.81341 (18120708)     49.57057 (18120708)
 3861457.9 |     52.43130 (18120708)     52.11004 (18120708)     51.67817 (18120708)
    51.14335 (18120708)     50.51342 (18120708)
 3861428.5 |     53.76406 (18120708)     52.96947 (18120708)     52.08505 (18120708)
    51.21160 (18120708)     50.21769 (18120708)
 3861399.0 |     53.55283 (18120708)     52.36741 (18120708)     51.16542 (18120708)
    49.95237 (18120708)     48.64673 (18120708)
 3861369.6 |     51.79676 (18120708)     50.45316 (15020502)     49.64266 (15020502)
    48.68480 (15020502)     47.73887 (16122023)
 3861340.1 |     50.75159 (16122023)     50.14491 (16122023)     49.47433 (16122023)
    48.74585 (16122023)     48.20326 (15020408)
 3861310.7 |     51.40807 (15020408)     51.08268 (15020408)     50.59163 (15020408)
    50.07608 (15020408)     49.45341 (15020408)
 3861281.2 |     52.65170 (15020408)     51.95303 (15020408)     51.14942 (15020408)
    50.25017 (15020408)     49.35035 (15020408)
 3861251.8 |     52.40161 (15020408)     51.27437 (15020408)     50.15905 (15020408)
    49.01474 (15020408)     47.80541 (15020408)
 3861222.3 |     50.57216 (15020408)     49.22295 (15020408)     48.68243 (19022503)
    48.24715 (19022503)     47.72552 (19022503)
 3861192.9 |     51.14646 (19022503)     50.53569 (19022503)     49.84064 (19022503)
    49.06817 (19022503)     48.22508 (19022503)
 3861163.4 |     51.29541 (19022503)     50.44199 (19022503)     49.64616 (16120801)
    49.01765 (16120801)     48.32443 (16120801)
 3861134.0 |     51.65861 (16120801)     50.92071 (16120801)     50.07651 (16120801)
    49.39447 (18120821)     48.95717 (18120821)
 3861104.5 |     52.58916 (18120821)     51.93129 (18120821)     51.25399 (18120821)
    50.55966 (18120821)     49.93738 (18120821)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 457
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                  L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,
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Y-COORD (METERS)	X-COORD (METERS) 492227.00
3861693.5	43.84131 (18011522)
3861664.1	43.61089 (16123005)
3861634.6	42.79367 (18120921)
3861605.2	44.37774 (20120318)
3861575.7	45.33173 (20120318)
3861546.3	45.79039 (19020808)
3861516.8	47.41836 (18120708)
3861487.4	49.22523 (18120708)
3861457.9	49.84017 (18120708)
3861428.5	49.15903 (18120708)
3861399.0	47.58060 (15020502)
3861369.6	47.23737 (16122023)
3861340.1	47.97984 (15020408)
3861310.7	48.89999 (15020408)
3861281.2	48.45247 (15020408)
3861251.8	46.62107 (15020408)
3861222.3	47.12344 (19022503)
3861192.9	47.35933 (19022503)
3861163.4	47.65257 (16120801)
3861134.0	48.45285 (18120821)
3861104.5	49.21379 (18120821)

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S):   L0000176   , L0000177 , L0000178   , L0000179   , L0000180   ,
L0000181   , L0000182   , L0000183   , L0000184   , L0000185 , L0000186   , L0000187   , L0000188   ,
L0000189   , L0000190   , L0000191   , L0000192   , L0000193 , L0000194   , L0000195   , L0000196   ,
L0000197   , L0000198   , L0000199   , L0000200   , L0000201

, L0000202   , L0000203   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488802.97	3861310.09	167.07536	(20112808)	488863.58	3861309.29	174.21684	(16012202)
488847.63	3861279.78	172.90031	(19011604)	488850.82	3861262.24	180.56891	(20112808)
488810.14	3861261.44	183.07865	(20112808)	488810.94	3861289.36	174.43366	(20112808)
488819.72	3861306.90	164.49062	(19011604)	488816.53	3861235.92	186.15303	(16021019)
488841.25	3861126.66	225.51022	(15010318)	488879.53	3861121.88	233.74064	(19122021)
488913.82	3861121.08	236.42307	(16122818)	488925.79	3861092.37	257.28610	(19122021)
488920.03	3861067.49	273.60255	(15010318)	488996.74	3861113.92	255.05139	(20112808)
488974.03	3861097.77	270.27841	(20112808)	488931.63	3860976.64	380.31159	(16102717)
488935.67	3861034.68	296.53806	(20122308)	488959.90	3861061.43	292.40128	(19122021)
489165.81	3861208.80	215.42520	(19012517)	489317.74	3861109.28	264.26034	(16020222)
489385.87	3861014.75	304.23743	(18092521)	489372.24	3861112.69	252.14776	(16111921)
489420.79	3861106.73	261.71950	(15010420)	489436.12	3861037.74	292.18690	(18010302)
489488.07	3861036.89	297.94634	(15010520)	489473.59	3861110.99	264.47263	(16020722)
489431.01	3861167.20	240.58325	(15010420)	489662.66	3860915.95	435.99171	(15020221)
489644.78	3861076.07	293.06395	(20010318)	489659.26	3861099.06	278.43130	(20010318)
489735.91	3861020.71	317.38815	(16021119)	489700.14	3861029.23	320.87679	(16122308)
489708.65	3861062.44	304.77981	(16122308)	489779.34	3861099.06	266.63918	(16011801)
489835.95	3859138.59	114.23839	(15112019)	489885.95	3859138.59	111.54995	(18012320)
489935.95	3859138.59	117.27688	(16010405)	489985.95	3859138.59	113.29584	(16010405)

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        490035.95   3859138.59      113.31739  (16122521)                490085.95
3859138.59      111.35290  (20011520)
        490135.95   3859138.59      119.67161  (15121808)                490185.95
3859138.59      124.56889  (15121808)
        490235.95   3859138.59      112.87290  (15121808)                490285.95
3859138.59       99.28372  (19010405)
        490335.95   3859138.59       93.99109  (20121324)                490385.95
3859138.59       95.59251  (20121324)
        490435.95   3859138.59       89.97386  (20121324)                490485.95
3859138.59       74.74945  (15020404)
        490535.95   3859138.59       67.21637  (15020404)                490585.95
3859138.59       64.69028  (15013024)
        490635.95   3859138.59       55.98402  (15013024)                490685.95
3859138.59       46.25071  (18040818)
        490735.95   3859138.59       48.28706  (18040818)                490785.95
3859138.59       43.12220  (18040818)
        490835.95   3859138.59       36.87382  (15122108)                490885.95
3859138.59       33.81773  (19102907)
        489835.95   3859188.59      116.20513  (15112019)                489885.95
3859188.59      114.74653  (16010405)
        489935.95   3859188.59      121.41582  (16010405)                489985.95
3859188.59      112.98338  (16122521)
        490035.95   3859188.59      117.52360  (16122521)                490085.95
3859188.59      118.30070  (20011520)
        490135.95   3859188.59      129.07594  (15121808)                490185.95
3859188.59      124.97832  (15121808)
        490235.95   3859188.59      105.14722  (15121808)                490285.95
3859188.59       99.25397  (19010405)
        490335.95   3859188.59      104.14523  (20121324)                490385.95
3859188.59      101.11326  (20121324)
        490435.95   3859188.59       86.07420  (20121324)                490485.95
3859188.59       77.25356  (15020404)
        490535.95   3859188.59       72.50195  (15013024)                490585.95
3859188.59       68.70706  (15013024)
        490635.95   3859188.59       52.66113  (15013024)                490685.95
3859188.59       49.53910  (18040818)
        490735.95   3859188.59       44.20097  (18040818)                490785.95
3859188.59       36.76126  (15122108)
        490835.95   3859188.59       36.75444  (19102907)                490885.95
3859188.59       35.61413  (15031607)
        489835.95   3859238.59      117.32829  (18012320)                489885.95
3859238.59      122.97735  (16010405)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 459
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S): L0000176 , L0000177 , L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
489935.95	3859238.59	123.72864	(16010405)	489985.95	3859238.59	120.64235	(16122521)
490035.95	3859238.59	119.18479	(20011520)	490085.95	3859238.59	128.94024	(15121808)
490135.95	3859238.59	133.84609	(15121808)	490185.95	3859238.59	121.32825	(15121808)
490235.95	3859238.59	108.79946	(19010405)	490285.95	3859238.59	106.74589	(20121324)
490335.95	3859238.59	109.07815	(20121324)	490385.95	3859238.59	99.30817	(20121324)
490435.95	3859238.59	94.16575	(15020404)	490485.95	3859238.59	88.26675	(15013024)
490535.95	3859238.59	83.74662	(15013024)	490585.95	3859238.59	68.14320	(15013024)
490635.95	3859238.59	60.30194	(16010120)	490685.95	3859238.59	56.78420	(16010120)
490735.95	3859238.59	49.97126	(19111222)	490785.95	3859238.59	46.70796	(19111222)
490835.95	3859238.59	43.09900	(15031607)	490885.95	3859238.59	37.81686	(15031607)
489835.95	3859288.59	122.96157	(18012320)	489885.95	3859288.59	129.59230	(16010405)
489935.95	3859288.59	123.93956	(16010405)	489985.95	3859288.59	126.14084	(16122521)
490035.95	3859288.59	126.60869	(20011520)	490085.95	3859288.59	138.48211	(15121808)
490135.95	3859288.59	134.02137	(15121808)	490185.95	3859288.59	114.48896	(19010405)
490235.95	3859288.59	108.63090	(19010405)	490285.95			

3859288.59 115.80925 (20121324)
490335.95 3859288.59 110.56755 (20121324) 490385.95
3859288.59 103.09120 (15020404)
490435.95 3859288.59 95.00475 (15020404) 490485.95
3859288.59 98.78097 (15013024)
490535.95 3859288.59 93.11804 (15013024) 490585.95
3859288.59 81.78061 (16010120)
490635.95 3859288.59 78.78103 (16010120) 490685.95
3859288.59 74.04776 (19111222)
490735.95 3859288.59 62.65632 (19111222) 490785.95
3859288.59 51.54512 (15031607)
490835.95 3859288.59 48.97789 (16080704) 490885.95
3859288.59 43.94105 (16050223)
489835.95 3859338.59 126.78882 (16010405) 489885.95
3859338.59 130.83926 (16010405)
489935.95 3859338.59 128.74898 (16122521) 489985.95
3859338.59 128.92498 (16122521)
490035.95 3859338.59 138.01463 (15121808) 490085.95
3859338.59 142.47539 (15121808)
490135.95 3859338.59 129.13471 (15121808) 490185.95
3859338.59 118.05870 (19010405)
490235.95 3859338.59 118.08638 (20121324) 490285.95
3859338.59 119.00567 (20121324)
490335.95 3859338.59 113.82368 (15020404) 490385.95
3859338.59 114.36004 (15020404)
490435.95 3859338.59 113.60561 (15013024) 490485.95
3859338.59 105.57892 (15013024)
490535.95 3859338.59 99.97739 (16010120) 490585.95
3859338.59 97.05793 (16010120)
490635.95 3859338.59 91.61851 (19111222) 490685.95
3859338.59 83.16694 (19111222)
490735.95 3859338.59 66.45754 (19111222) 490785.95
3859338.59 63.07243 (20022004)
490835.95 3859338.59 62.34030 (20120808) 490885.95
3859338.59 53.93787 (20120808)
489835.95 3859388.59 135.80827 (16010405) 489885.95
3859388.59 132.66196 (16010405)
489935.95 3859388.59 134.71614 (16122521) 489985.95
3859388.59 135.04246 (20011520)
490035.95 3859388.59 145.75569 (15121808) 490085.95
3859388.59 136.02652 (15121808)
490135.95 3859388.59 122.52127 (19010405) 490185.95
3859388.59 116.58930 (20121324)
490235.95 3859388.59 123.19633 (20121324) 490285.95
3859388.59 120.43437 (15020404)
490335.95 3859388.59 126.67880 (15020404) 490385.95
3859388.59 123.91533 (15013024)
490435.95 3859388.59 121.06305 (15013024) 490485.95
3859388.59 114.19600 (16010120)
490535.95 3859388.59 113.72326 (16010120) 490585.95

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
                                 INCLUDING SOURCE(S):   L0000176   , L0000177 , L0000178   , L0000179   , L0000180   ,
                  L0000181   , L0000182   , L0000183   , L0000184   , L0000185 , L0000186   , L0000187   , L0000188   ,
                  L0000189   , L0000190   , L0000191   , L0000192   , L0000193 , L0000194   , L0000195   , L0000196   ,
                  L0000197   , L0000198   , L0000199   , L0000200   , L0000201 , L0000202   , L0000203   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

```
        490535.95   3859438.59      115.31829  (19111222)              490585.95
3859438.59      111.94278  (19111222)
        490635.95   3859438.59      103.16188  (20022004)              490685.95
3859438.59      102.18074  (20022004)
        490735.95   3859438.59       98.40494  (20120808)              490785.95
3859438.59       86.69303  (20120808)
        490835.95   3859438.59       84.78738  (19120107)              490885.95
3859438.59       79.19038  (19011623)
        490085.95   3859488.59      126.83789  (19010405)              490135.95
3859488.59      117.94049  (20121324)
        490185.95   3859488.59      121.26898  (18012217)              490235.95
3859488.59      134.19403  (15020404)
        490285.95   3859488.59      134.07869  (15020404)              490335.95
3859488.59      133.71872  (15013024)
        490385.95   3859488.59      126.10943  (16010120)              490435.95
3859488.59      131.17860  (16010120)
        490485.95   3859488.59      123.93631  (15020520)              490535.95
3859488.59      121.87434  (15020520)
        490585.95   3859488.59      116.40175  (20022004)              490635.95
3859488.59      119.11726  (20022004)
        490685.95   3859488.59      118.06698  (20120808)              490735.95
3859488.59      104.72534  (20120808)
        490785.95   3859488.59      100.19010  (19120107)              490835.95
3859488.59       92.42073  (19011623)
        490885.95   3859488.59       88.24243  (19122324)              490085.95
3859538.59      123.14469  (19010405)
        490135.95   3859538.59      119.07537  (18012217)              490185.95
3859538.59      133.44837  (15020404)
        490235.95   3859538.59      133.27530  (15020404)              490285.95
3859538.59      127.86284  (15013024)
        490335.95   3859538.59      125.10604  (16010120)              490385.95
3859538.59      132.18618  (16010120)
        490435.95   3859538.59      131.00654  (15020520)              490485.95
3859538.59      130.40596  (15020520)
        490535.95   3859538.59      126.56530  (20022004)              490585.95
3859538.59      130.08651  (20120808)
        490635.95   3859538.59      131.14904  (20120808)              490685.95
3859538.59      118.16870  (20120808)
        490735.95   3859538.59      114.16429  (19120107)              490785.95
3859538.59      104.48189  (19011623)
        490835.95   3859538.59      100.80696  (19122324)              490885.95
3859538.59       90.13124  (18031023)
        490135.95   3859588.59      131.39951  (15020404)              490185.95
3859588.59      138.27352  (15020404)
        490235.95   3859588.59      127.35802  (15013024)              490285.95
3859588.59      119.60714  (16111924)
        490335.95   3859588.59      128.07018  (16010120)              490385.95
3859588.59      131.18737  (15020520)
        490435.95   3859588.59      130.92069  (15020520)              490485.95
3859588.59      131.38514  (20022004)
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        490535.95   3859588.59      139.52194  (20120808)                490585.95
3859588.59      140.47739  (20120808)
        490635.95   3859588.59      128.61957  (19120107)                490685.95
3859588.59      124.76550  (19120107)
        490735.95   3859588.59      117.29083  (19122324)                490785.95
3859588.59      110.43471  (19122324)
        490835.95   3859588.59      100.85227  (18031023)                490885.95
3859588.59       93.44781  (20112919)
        490135.95   3859638.59      149.79688  (15020404)                490185.95
3859638.59      136.35206  (15020404)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 461
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                  L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        490235.95   3859638.59      127.41180  (15013024)                490285.95
3859638.59      125.36196  (16010120)
        490335.95   3859638.59      131.00591  (15020520)                490385.95
3859638.59      132.18916  (15020520)
        490435.95   3859638.59      129.42649  (20022004)                490485.95
3859638.59      141.39297  (20120808)
        490535.95   3859638.59      141.52570  (20120808)                490585.95
3859638.59      135.33593  (19120107)
        490635.95   3859638.59      131.23576  (19120107)                490685.95
3859638.59      127.78085  (19122324)
        490735.95   3859638.59      118.88185  (19122324)                490785.95
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3859638.59 107.57650 (18031023)
490835.95 3859638.59 104.43917 (20112919) 490885.95
3859638.59 110.19901 (18011120)
490135.95 3859688.59 147.62877 (15020404) 490185.95
3859688.59 133.86004 (15013024)
490235.95 3859688.59 132.20649 (16010120) 490285.95
3859688.59 138.80821 (15020520)
490335.95 3859688.59 137.22781 (15020520) 490385.95
3859688.59 129.19627 (20022004)
490435.95 3859688.59 141.26626 (20120808) 490485.95
3859688.59 140.20392 (20120808)
490535.95 3859688.59 135.23167 (19120107) 490585.95
3859688.59 130.56941 (19011623)
490635.95 3859688.59 134.62220 (19122324) 490685.95
3859688.59 124.18453 (19122324)
490735.95 3859688.59 114.19509 (16092619) 490785.95
3859688.59 114.78462 (18011120)
490835.95 3859688.59 121.26958 (18011120) 490885.95
3859688.59 120.64569 (18011120)
490085.95 3859738.59 158.67831 (15020404) 490135.95
3859738.59 143.52581 (15013024)
490185.95 3859738.59 136.03295 (16010120) 490235.95
3859738.59 138.45299 (15020520)
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3859738.59 133.62076 (16021620)
490385.95 3859738.59 148.28985 (20120808) 490435.95
3859738.59 143.26528 (20120808)
490485.95 3859738.59 135.15512 (19120107) 490535.95
3859738.59 131.42976 (19122324)
490585.95 3859738.59 132.43948 (19122324) 490635.95
3859738.59 122.52787 (18031023)
490685.95 3859738.59 120.76195 (20112919) 490735.95
3859738.59 125.62640 (18011120)
490785.95 3859738.59 128.94277 (18011120) 490835.95
3859738.59 126.43003 (19020802)
490885.95 3859738.59 124.85234 (16120720) 490085.95
3859788.59 158.89618 (15020404)
490135.95 3859788.59 145.59719 (16010120) 490185.95
3859788.59 146.97118 (15020520)
490235.95 3859788.59 150.77179 (15020520) 490285.95
3859788.59 139.18622 (15020520)
490335.95 3859788.59 149.47157 (20120808) 490385.95
3859788.59 146.06290 (20120808)
490435.95 3859788.59 135.90036 (19120107) 490485.95
3859788.59 133.38976 (19122324)
490535.95 3859788.59 130.90792 (19122324) 490585.95
3859788.59 115.91976 (16092619)
490635.95 3859788.59 125.81838 (20122020) 490685.95
3859788.59 128.42824 (18011120)
490735.95 3859788.59 129.40799 (19020802) 490785.95

3859788.59   129.64896 (19020802)
        490835.95   3859788.59   130.58149 (16120720)   490885.95
3859788.59   129.93457 (19120108)
        490085.95   3859838.59   157.70918 (15013024)   490135.95
3859838.59   155.14374 (16010120)
        490185.95   3859838.59   162.16763 (15020520)   490235.95
3859838.59   151.58859 (20022004)
        490285.95   3859838.59   161.27223 (20120808)   490335.95
3859838.59   154.81390 (20120808)
        490385.95   3859838.59   141.01536 (19120107)   490435.95
3859838.59   138.35415 (19122324)
        490485.95   3859838.59   132.44026 (19122324)   490535.95
3859838.59   120.39579 (20122020)
        490585.95   3859838.59   127.19826 (20122020)   490635.95
3859838.59   126.58210 (19121704)
        490685.95   3859838.59   126.00428 (15121821)   490735.95
3859838.59   128.69428 (20122119)
        490785.95   3859838.59   133.83163 (19120108)   490835.95
3859838.59   147.61355 (19120108)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):   L0000176   , L0000177 , L0000178   , L0000179   , L0000180   ,
                 L0000181   , L0000182   , L0000183   , L0000184   , L0000185 , L0000186   , L0000187   , L0000188   ,
                 L0000189   , L0000190   , L0000191   , L0000192   , L0000193 , L0000194   , L0000195   , L0000196   ,
                 L0000197   , L0000198   , L0000199   , L0000200   , L0000201 , L0000202   , L0000203   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

490135.95 3859888.59 172.13348 (15020520) 490185.95 3859888.59 162.40474 (15020520)
490235.95 3859888.59 172.97169 (20120808) 490285.95 3859888.59 166.31397 (20120808)
490335.95 3859888.59 149.83847 (19120107) 490385.95 3859888.59 146.02176 (19122324)
490435.95 3859888.59 136.87531 (19122324) 490485.95 3859888.59 125.91703 (20122020)
490535.95 3859888.59 130.12766 (20122020) 490585.95 3859888.59 131.67282 (15121821)
490635.95 3859888.59 130.50917 (15121821) 490685.95 3859888.59 130.00521 (20122808)
490735.95 3859888.59 139.15932 (19120108) 490785.95 3859888.59 142.78275 (19120108)
490835.95 3859888.59 142.90477 (19120108) 490885.95 3859888.59 148.46831 (19120708)
490135.95 3859938.59 175.89216 (15020520) 490185.95 3859938.59 185.94918 (20120808)
490235.95 3859938.59 178.33057 (20120808) 490285.95 3859938.59 161.40098 (19120107)
490335.95 3859938.59 155.79774 (19122324) 490385.95 3859938.59 143.64776 (19122324)
490435.95 3859938.59 134.63342 (20122020) 490485.95 3859938.59 134.54033 (20122020)
490535.95 3859938.59 135.37580 (15121821) 490585.95 3859938.59 135.68628 (15012223)
490635.95 3859938.59 139.52430 (19120108) 490685.95 3859938.59 152.14021 (19120108)
490735.95 3859938.59 152.94903 (19120108) 490785.95 3859938.59 147.86089 (19120708)
490835.95 3859938.59 141.82772 (19120708) 490885.95 3859938.59 125.40050 (19120708)
490135.95 3859988.59 200.72291 (20120808) 490185.95 3859988.59 191.80013 (20120808)
490235.95 3859988.59 175.36345 (19120107) 490285.95 3859988.59 169.95812 (19122324)
490335.95 3859988.59 151.90706 (19122324) 490385.95 3859988.59 147.54576 (20122020)
490435.95 3859988.59 144.78419 (19121704) 490485.95 3859988.59 142.13317 (15121821)
490535.95 3859988.59 138.85303 (20122808) 490585.95 3859988.59 143.08593 (19120108)
490635.95 3859988.59 154.17290 (19120108) 490685.95 3859988.59 156.27927 (19120708)
490735.95 3859988.59 151.64935 (19120708) 490785.95 3859988.59 139.50064 (19120708)
490835.95 3859988.59 128.59803 (15121006) 490885.95 3859988.59 123.78592 (16010208)
490135.95 3860038.59 206.98430 (20120808) 490185.95 3860038.59 188.21309 (19122324)

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        490235.95   3860038.59      181.33313  (19122324)                490285.95
3860038.59      159.63046  (20122020)
        490335.95   3860038.59      162.73941  (20122020)                490385.95
3860038.59      156.82125  (15121821)
        490435.95   3860038.59      152.97093  (15012223)                490485.95
3860038.59      153.59837  (19120108)
        490535.95   3860038.59      158.85715  (19120108)                490585.95
3860038.59      157.24052  (19120708)
        490635.95   3860038.59      154.20222  (19120708)                490685.95
3860038.59      145.35149  (19120708)
        490735.95   3860038.59      137.30504  (15121006)                490785.95
3860038.59      135.96613  (16010208)
        490835.95   3860038.59      133.27929  (16010208)                490885.95
3860038.59      125.45100  (16010208)
        490135.95   3860088.59      206.14487  (19122324)                490185.95
3860088.59      195.29011  (19122324)
        490235.95   3860088.59      180.48760  (20122020)                490285.95
3860088.59      176.88868  (19121704)
        490335.95   3860088.59      171.75401  (15121821)                490385.95
3860088.59      167.47435  (20122808)
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3860088.59      173.32695  (19120108)
        490535.95   3860088.59      170.82283  (19120708)                490585.95
3860088.59      161.23096  (19120708)
        490635.95   3860088.59      145.24402  (19120708)                490685.95
3860088.59      140.39594  (16010208)
        490735.95   3860088.59      139.35854  (16010208)                490785.95
3860088.59      133.91962  (16010208)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 463
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                 L0000181    , L0000182    , L0000183    , L0000184    , L0000185
, L0000186    , L0000187    , L0000188    ,
                 L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                 L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490835.95	3860088.59	126.26958	(18120308)	490885.95	3860088.59	118.16859	(18120308)
490135.95	3860138.59	208.25635	(19122324)	490185.95	3860138.59	199.74443	(20122020)
490235.95	3860138.59	193.31060	(15121821)	490285.95	3860138.59	187.21424	(15012223)
490335.95	3860138.59	192.17738	(19120108)	490385.95	3860138.59	194.85617	(19120108)
490435.95	3860138.59	191.10190	(19120708)	490485.95	3860138.59	180.84401	(19120708)
490535.95	3860138.59	163.12824	(19120708)	490585.95	3860138.59	156.00971	(16010208)
490635.95	3860138.59	153.44292	(16010208)	490685.95	3860138.59	145.60235	(16010208)
490735.95	3860138.59	137.04154	(18120308)	490785.95	3860138.59	127.38616	(18121507)
490835.95	3860138.59	124.04543	(18121507)	490885.95	3860138.59	119.55482	(18011822)
490935.95	3860138.59	114.54105	(18011822)	490985.95	3860138.59	108.67124	(15010721)
491035.95	3860138.59	107.31201	(15010721)	490135.95	3860188.59	217.81186	(20122020)
490185.95	3860188.59	215.52632	(15121821)	490235.95	3860188.59	210.75849	(19120108)
490285.95	3860188.59	219.26505	(19120108)	490335.95	3860188.59	215.92217	(19120708)
490385.95	3860188.59	206.10954	(19120708)	490435.95	3860188.59	185.52771	(19120708)
490485.95	3860188.59	175.39196	(16010208)	490535.95	3860188.59	171.43869	(16010208)
490585.95	3860188.59	161.48722	(16010208)	490635.95	3860188.59	150.49148	(18120308)
490685.95	3860188.59	141.35153	(18121507)	490735.95	3860188.59	135.69590	(18011822)
490785.95	3860188.59	131.45985	(18011822)	490835.95	3860188.59	124.60303	(18011822)
490885.95	3860188.59	121.21048	(15010721)	490935.95	3860188.59	117.03629	(15010721)
490985.95	3860188.59	111.57940	(15010721)	491035.95	3860188.59	104.56009	(15010721)
491085.95	3860188.59	101.54166	(20122520)	491135.95	3860188.59	98.49945	(20122520)
490135.95	3860238.59	235.28646	(15012223)	490185.95			

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3860238.59      247.02295  (19120108)
        490235.95   3860238.59      245.05547  (19120708)                490285.95
3860238.59      236.96633  (19120708)
        490335.95   3860238.59      213.92115  (19120708)                490385.95
3860238.59      200.28149  (16010208)
        490435.95   3860238.59      194.39525  (16010208)                490485.95
3860238.59      180.10842  (16010208)
        490535.95   3860238.59      166.58701  (18120308)                490585.95
3860238.59      158.29408  (18121507)
        490635.95   3860238.59      152.52969  (18011822)                490685.95
3860238.59      144.87919  (18011822)
        490735.95   3860238.59      139.18648  (15010721)                490785.95
3860238.59      134.76571  (15010721)
        490835.95   3860238.59      127.90352  (15010721)                490885.95
3860238.59      119.42465  (15010721)
        490935.95   3860238.59      116.28657  (20122520)                490985.95
3860238.59      112.63391  (20122520)
        491035.95   3860238.59      106.30226  (20122520)                491085.95
3860238.59      102.44830  (15021320)
        491135.95   3860238.59      100.06982  (15021320)                490135.95
3860288.59      282.41593  (19120108)
        490185.95   3860288.59      274.13240  (19120708)                490235.95
3860288.59      249.48658  (19120708)
        490285.95   3860288.59      230.98331  (16010208)                490335.95
3860288.59      222.15560  (16010208)
        490385.95   3860288.59      204.43872  (18120308)                490435.95
3860288.59      187.32733  (18121507)
        490485.95   3860288.59      179.59165  (18011822)                490535.95
3860288.59      171.23801  (18011822)
        490585.95   3860288.59      161.76408  (15010721)                490635.95
3860288.59      156.78935  (15010721)
        490685.95   3860288.59      148.66396  (15010721)                490735.95
3860288.59      138.18229  (20122520)
        490785.95   3860288.59      134.35142  (20122520)                490835.95
3860288.59      127.84723  (20122520)
        490885.95   3860288.59      120.83828  (15021320)                490935.95
3860288.59      118.24821  (15021320)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 464
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING2 ***
                                   INCLUDING SOURCE(S):     L0000176    , L0000177
, L0000178    , L0000179    , L0000180    ,
                 L0000181    , L0000182    , L0000183    , L0000184    , L0000185
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, L0000186    , L0000187    , L0000188    ,
                L0000189    , L0000190    , L0000191    , L0000192    , L0000193
, L0000194    , L0000195    , L0000196    ,
                L0000197    , L0000198    , L0000199    , L0000200    , L0000201
, L0000202    , L0000203    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        490985.95   3860288.59      115.04336  (15021320)               491035.95
3860288.59      109.84194  (15021320)
        491085.95   3860288.59      103.52630  (15021320)               490135.95
3860338.59      292.88758  (19120708)
        490185.95   3860338.59      269.14847  (16010208)               490235.95
3860338.59      257.47139  (16010208)
        490285.95   3860338.59      234.04931  (18120308)               490335.95
3860338.59      216.43737  (18121507)
        490385.95   3860338.59      206.83931  (18011822)               490435.95
3860338.59      192.68502  (18011822)
        490485.95   3860338.59      186.50987  (15010721)               490535.95
3860338.59      176.02292  (15010721)
        490585.95   3860338.59      162.71526  (20122520)               490635.95
3860338.59      156.61149  (20122520)
        490685.95   3860338.59      147.62166  (20122520)               490735.95
3860338.59      141.88788  (15021320)
        490785.95   3860338.59      138.16557  (15021320)               490835.95
3860338.59      131.63973  (15021320)
        490885.95   3860338.59      123.93063  (15021320)               490935.95
3860338.59      119.57070  (20012419)
        490985.95   3860338.59      115.73544  (20012419)               491035.95
3860338.59      111.39803  (20012419)
        491085.95   3860338.59      106.35977  (20012419)               490135.95
3860388.59      299.84923  (16010208)
        490185.95   3860388.59      268.71611  (18120308)               490235.95
3860388.59      253.61961  (18011822)
        490285.95   3860388.59      238.27362  (18011822)               490335.95
3860388.59      226.68783  (15010721)
        490385.95   3860388.59      212.70092  (15010721)               490435.95
3860388.59      196.14018  (20122520)
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3860388.59      174.22083  (15021320)
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3860388.59      161.08729  (15021320)
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        490685.95   3860388.59      151.28668  (15021320)                490735.95
3860388.59      145.34477  (20012419)
        490785.95   3860388.59      140.21320  (20012419)                490835.95
3860388.59      134.22401  (20012419)
        490135.95   3860438.59      299.99731  (18011822)                490185.95
3860438.59      281.57477  (15010721)
        490235.95   3860438.59      263.91714  (15010721)                490285.95
3860438.59      241.98085  (20122520)
        490335.95   3860438.59      226.81363  (20122520)                490385.95
3860438.59      214.41547  (15021320)
        490435.95   3860438.59      204.37001  (15021320)                490485.95
3860438.59      190.56671  (15021320)
        490535.95   3860438.59      182.11224  (20012419)                490585.95
3860438.59      173.94144  (20012419)
        490635.95   3860438.59      164.15575  (20012419)                490685.95
3860438.59      155.27326  (18011319)
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3860438.59      140.40758  (19013107)
        490835.95   3860438.59      134.55020  (19013107)                490135.95
3860488.59      306.59929  (20122520)
        490185.95   3860488.59      282.70173  (20122520)                490235.95
3860488.59      269.42247  (15021320)
        490285.95   3860488.59      250.49684  (15021320)                490335.95
3860488.59      236.40169  (20012419)
        490385.95   3860488.59      223.55191  (20012419)                490435.95
3860488.59      208.92240  (20012419)
        490485.95   3860488.59      196.31272  (18011319)                490535.95
3860488.59      184.56533  (19013107)
        490585.95   3860488.59      174.09016  (19013107)                490635.95
3860488.59      164.87909  (15012208)
        490685.95   3860488.59      156.45998  (15012208)                490735.95
3860488.59      148.12325  (15012208)
        490785.95   3860488.59      140.80027  (16020401)                490135.95
3860538.59      324.33603  (20012419)
        490185.95   3860538.59      303.27246  (20012419)                490235.95
3860538.59      276.96800  (18011319)
        490285.95   3860538.59      257.21890  (19013107)                490335.95
3860538.59      239.96265  (19013107)
        490385.95   3860538.59      225.88975  (15012208)                490435.95
3860538.59      211.45411  (15012208)
        490485.95   3860538.59      198.69384  (16020401)                490535.95
3860538.59      188.72280  (16020401)
        490585.95   3860538.59      176.59444  (20122021)                490635.95
3860538.59      166.99368  (20122021)
        490685.95   3860538.59      157.98566  (20122021)                490735.95
3860538.59      148.85551  (20122021)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING2 ***
INCLUDING SOURCE(S):   L0000176   , L0000177 , L0000178   , L0000179   , L0000180   ,
L0000181   , L0000182   , L0000183   , L0000184   , L0000185 , L0000186   , L0000187   , L0000188   ,
L0000189   , L0000190   , L0000191   , L0000192   , L0000193 , L0000194   , L0000195   , L0000196   ,
L0000197   , L0000198   , L0000199   , L0000200   , L0000201 , L0000202   , L0000203   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490785.95	3860538.59	140.32941	(20122021)	490135.95	3860588.59	333.84108	(18120920)
490185.95	3860588.59	298.51227	(16020401)	490235.95	3860588.59	279.79374	(20122021)
490285.95	3860588.59	262.20956	(20122021)	490335.95	3860588.59	243.34041	(20122021)
490385.95	3860588.59	225.03686	(20122021)	490435.95	3860588.59	210.77554	(20122021)
490485.95	3860588.59	200.45724	(20120821)	490535.95	3860588.59	188.85636	(20120821)
490585.95	3860588.59	174.61451	(20120821)	490635.95	3860588.59	164.76679	(20120821)
490685.95	3860588.59	155.13790	(20120821)	490735.95	3860588.59	146.13281	(20120821)
490785.95	3860588.59	138.50871	(15021823)	490135.95	3860638.59	338.68220	(20120821)
490185.95	3860638.59	306.06724	(20120821)	490235.95	3860638.59	278.87411	(15021823)
490285.95	3860638.59	259.84934	(15021823)	490335.95	3860638.59	244.16680	(15021823)
490385.95	3860638.59	228.82166	(15021823)	490435.95	3860638.59	214.00086	(15021823)
490485.95	3860638.59	200.93656	(15021823)	490535.95	3860638.59	189.90407	(15021823)
490585.95	3860638.59	177.61788	(15021823)	490635.95			

3860638.59 167.23509 (15021823)
490685.95 3860638.59 157.28864 (15021823) 490735.95
3860638.59 147.62052 (15012508)
490785.95 3860638.59 141.17601 (15012508) 490135.95
3860688.59 348.25010 (15012508)
490185.95 3860688.59 325.43944 (15012508) 490235.95
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490585.95 3860688.59 177.48741 (19011605) 490635.95
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3860738.59 330.95977 (15121708)
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3860738.59 229.91043 (15121708)
490385.95 3860738.59 214.59764 (19010506) 490435.95
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3860738.59 159.19446 (19010506)
490685.95 3860738.59 152.26745 (19010506) 490735.95
3860738.59 145.72624 (19010506)
490785.95 3860738.59 139.97650 (19010506) 490135.95
3860788.59 346.71619 (20120308)
490185.95 3860788.59 320.35213 (20120308) 490235.95
3860788.59 295.28628 (20120308)
490285.95 3860788.59 272.54175 (20120308) 490335.95
3860788.59 251.02473 (20120308)
490385.95 3860788.59 234.11670 (20120308) 490435.95
3860788.59 217.16017 (15121708)
490485.95 3860788.59 206.41417 (15121708) 490535.95
3860788.59 193.36373 (15121708)
490585.95 3860788.59 179.60959 (15121708) 490635.95
3860788.59 169.21345 (15121708)
490685.95 3860788.59 160.49190 (15121708) 490735.95
3860788.59 153.10657 (15121708)
490785.95 3860788.59 145.03750 (15121708) 489985.95
3860838.59 384.42363 (15020408)
490035.95 3860838.59 357.02910 (15020408) 490085.95
3860838.59 324.31092 (15020408)
490135.95 3860838.59 295.46499 (19022503) 490185.95

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING2 ***
                                   INCLUDING SOURCE(S):   L0000176   , L0000177
, L0000178   , L0000179   , L0000180   ,
                 L0000181   , L0000182   , L0000183   , L0000184   , L0000185
, L0000186   , L0000187   , L0000188   ,
                 L0000189   , L0000190   , L0000191   , L0000192   , L0000193
, L0000194   , L0000195   , L0000196   ,
                 L0000197   , L0000198   , L0000199   , L0000200   , L0000201
, L0000202   , L0000203   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        490435.95   3860838.59   216.44697 (20120308)   490485.95
3860838.59   207.35592 (20120308)
        490535.95   3860838.59   197.18526 (20120308)   490585.95
3860838.59   186.06087 (20120308)
        490635.95   3860838.59   175.45713 (20120308)   490685.95
3860838.59   166.50540 (20120308)
        490735.95   3860838.59   158.72983 (20120308)   490785.95
3860838.59   150.75134 (20120308)
        490835.95   3860838.59   142.70368 (20120308)   489835.95
3860888.59   437.95631 (19020204)
        489885.95   3860888.59   423.75288 (18022523)   489935.95
3860888.59   388.74368 (18011522)
        489985.95   3860888.59   360.55915 (20120318)   490035.95
3860888.59   347.13674 (18120708)
        490085.95   3860888.59   330.21323 (18120708)   490135.95
3860888.59   301.43523 (18120708)

490185.95 3860888.59 267.53193 (16122023) 490235.95 3860888.59 254.13845 (15020408)
490285.95 3860888.59 237.07636 (15020408) 490335.95 3860888.59 217.43520 (15020408)
490385.95 3860888.59 200.52492 (19022503) 490435.95 3860888.59 190.64605 (19022503)
490485.95 3860888.59 179.99616 (16120801) 490535.95 3860888.59 170.70579 (16120801)
490585.95 3860888.59 162.79907 (18120821) 490635.95 3860888.59 154.84186 (18120821)
490685.95 3860888.59 149.55261 (20120308) 490735.95 3860888.59 145.86957 (20120308)
490785.95 3860888.59 141.45084 (20120308) 490835.95 3860888.59 137.57179 (20120308)
490885.95 3860888.59 134.16302 (20120308) 490935.95 3860888.59 129.73959 (20120308)
489835.95 3860938.59 406.83759 (18020819) 489885.95 3860938.59 386.54737 (18011122)
489935.95 3860938.59 348.24070 (19020204) 489985.95 3860938.59 333.45607 (18022523)
490035.95 3860938.59 315.72176 (18011522) 490085.95 3860938.59 290.27143 (18011522)
490135.95 3860938.59 270.89072 (20120318) 490185.95 3860938.59 259.40476 (18120708)
490235.95 3860938.59 252.60876 (18120708) 490285.95 3860938.59 239.08510 (18120708)
490335.95 3860938.59 219.53791 (18120708) 490385.95 3860938.59 199.70667 (18120708)
490435.95 3860938.59 191.46072 (15020408) 490485.95 3860938.59 182.60847 (15020408)
490535.95 3860938.59 172.14630 (15020408) 490585.95 3860938.59 159.86881 (15020408)
490635.95 3860938.59 147.24177 (15020408) 490685.95 3860938.59 140.99690 (19022503)
490735.95 3860938.59 134.18357 (19022503) 490785.95 3860938.59 127.88816 (16120801)
490835.95 3860938.59 123.46804 (16120801) 490885.95 3860938.59 119.46426 (18120821)
490935.95 3860938.59 115.61682 (18120821) 489835.95 3860988.59 324.84049 (18020819)
489885.95 3860988.59 351.60394 (18020819) 489935.95 3860988.59 328.39337 (15011619)
489985.95 3860988.59 316.06476 (18011122) 490035.95 3860988.59 287.63248 (18020124)
490085.95 3860988.59 267.32144 (18022523) 490135.95 3860988.59 261.22099 (18022523)
490185.95 3860988.59 247.11287 (18011522) 490235.95 3860988.59 225.55921 (18011522)
490285.95 3860988.59 213.85448 (20120318) 490335.95 3860988.59 203.94996 (20120318)

        489935.95   3861038.59   289.14982 (18020819)   489985.95
3861038.59   294.51028 (18020819)
        490035.95   3861038.59   274.10910 (15011619)   490085.95
3861038.59   262.75787 (18011122)
        490135.95   3861038.59   242.11388 (18020124)   490185.95
3861038.59   224.35919 (19020204)
        490235.95   3861038.59   218.54085 (18022523)   490285.95

```
3861038.59      208.24432  (18011721)
        490335.95   3861038.59      196.63248  (18011522)                490385.95
3861038.59      183.00340  (18120921)
        490435.95   3861038.59      176.04957  (20120318)                490485.95
3861038.59      169.65594  (20120318)
        490535.95   3861038.59      164.20650  (18120708)                490585.95
3861038.59      160.55764  (18120708)
        490635.95   3861038.59      154.04412  (18120708)                490685.95
3861038.59      145.65374  (18120708)
        490735.95   3861038.59      136.08993  (18120708)                490785.95
3861038.59      126.05862  (18120708)
        490835.95   3861038.59      120.31424  (16122023)                490885.95
3861038.59      117.10073  (15020408)
        490935.95   3861038.59      113.71027  (15020408)                489835.95
3861088.59      264.16300  (16021119)
        489885.95   3861088.59      251.58642  (19120601)                489935.95
3861088.59      241.88773  (16021120)
        489985.95   3861088.59      229.64014  (18020819)                490035.95
3861088.59      252.81490  (18020819)
        490085.95   3861088.59      248.45616  (18020819)                490135.95
3861088.59      234.17473  (15011619)
        490185.95   3861088.59      225.99768  (18011122)                490235.95
3861088.59      208.68528  (18020124)
        490285.95   3861088.59      194.88897  (19020204)                490335.95
3861088.59      183.28479  (18022523)
        490385.95   3861088.59      181.36809  (18011721)                490435.95
3861088.59      172.58466  (18011522)
        490485.95   3861088.59      164.06147  (18011522)                490535.95
3861088.59      153.15790  (18120921)
        490585.95   3861088.59      146.16269  (20120318)                490635.95
3861088.59      140.88967  (20120318)
        490685.95   3861088.59      134.34248  (18120708)                490735.95
3861088.59      133.36407  (18120708)
        490785.95   3861088.59      130.27593  (18120708)                490835.95
3861088.59      125.56181  (18120708)
        490885.95   3861088.59      119.62281  (18120708)                490935.95
3861088.59      112.95885  (18120708)
        489020.79   3862564.85       58.08735  (18010720)                489043.15
3862350.21       66.27460  (18010720)
        489072.96   3862287.60       70.25346  (18010720)                488980.55
3862078.92       79.66795  (16121423)
        489037.19   3862822.72       49.90152  (15020218)                489120.66
3863016.49       53.33694  (20022108)
        489037.19   3863350.37       47.01485  (20022108)

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489237.26	489256.56	489275.86	489295.16	489314.46
3859957.1	254.54426 (18122220)	252.12789 (18122220)	253.71059 (18010221)	256.13444 (18010221)	251.18045 (20022718)
3859937.6	246.95910 (18122220)	244.65499 (18122220)	249.70197 (18010221)	250.85022 (18010221)	245.93614 (20022718)
3859918.2	240.29883 (18122220)	238.01170 (18010221)	245.32197 (18010221)	244.48048 (18010221)	240.74946 (20022718)
3859898.8	233.35400 (18122220)	235.49500 (18010221)	240.96173 (18010221)	238.99487 (18010221)	234.73648 (20022718)
3859879.4	222.39256 (18122220)	231.98393 (18010221)	233.48637 (18010221)	228.82915 (18010221)	226.68898 (19011424)
3859860.0	215.72293 (18010221)	227.45532 (18010221)	227.82770 (18010221)	223.49389 (19011424)	221.15059 (19011424)
3859840.5	212.84027 (18010221)	223.19586 (18010221)	223.47720 (18010221)	219.40515 (19011424)	215.62865 (19011424)
3859821.1	211.75608 (18010221)	219.68448 (18010221)	220.04957 (18010221)	215.26467 (19011424)	211.07540 (19011424)
3859801.7	210.19531 (18010221)	216.15449 (18010221)	214.61226 (18010221)	211.10997 (19011424)	205.73037 (19011424)
3859782.3	207.18714 (18010221)	212.42554 (18010221)	209.13459 (18010221)	206.91868 (19011424)	201.62482 (20022718)
3859762.9	203.86267 (18010221)	208.07317 (18010221)	203.70946 (18010221)	202.72148 (19011424)	198.22434 (20022718)
3859743.4	200.38555 (18010221)	203.62715 (18010221)	199.35268 (18010221)	198.49828 (19011424)	194.58585 (20022718)

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 3859724.0 |    197.71205 (18010221)    199.10596 (18010221)    195.30077 (19011424)
   194.25875 (19011424)    190.01286 (16122922)
 3859704.6 |    194.91042 (18010221)    195.50866 (18010221)    191.84103 (19011424)
   190.01237 (19011424)    187.67808 (16122922)
 3859685.2 |    191.43097 (18010221)    190.98460 (18010221)    187.94248 (19011424)
   185.08807 (19011424)    185.06369 (16122922)
 3859665.8 |    187.70150 (18010221)    185.38687 (18010221)    184.22564 (19011424)
   178.71629 (19011424)    182.15626 (16122922)
 3859646.4 |    184.78823 (18010221)    181.84320 (18010221)    181.60767 (19011424)
   176.47346 (19011424)    179.60009 (16122922)
 3859626.9 |    181.14242 (18010221)    178.25900 (18010221)    178.59489 (19011424)
   173.81138 (19011424)    176.29346 (16122922)
 3859607.5 |    178.16355 (18010221)    174.88161 (19011424)    175.23516 (19011424)
   170.71208 (19011424)    173.86795 (16122922)
 3859588.1 |    175.89737 (18010221)    172.09130 (19011424)    172.05346 (19011424)
   168.17962 (20022718)    171.15816 (16122922)
 3859568.7 |    173.13667 (18010221)    169.40882 (19011424)    168.85879 (19011424)
   165.24940 (20022718)    168.87445 (16122922)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 469
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
                                 INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                  L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                  L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489333.76              489353.06              489372.36
      489391.66              489410.96
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    253.11557 (20022718)    260.44539 (20040918)    270.00941 (20040918)
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```
  270.08824 (20040918)    262.40393 (20040918)
 3859937.6 |    247.06582 (20022718)    257.16207 (20040918)    267.16037 (20040918)
  268.19356 (20040918)    261.44993 (20040918)
 3859918.2 |    240.87836 (20022718)    252.80132 (20040918)    262.25908 (20040918)
  263.18543 (20040918)    255.93920 (20040918)
 3859898.8 |    233.35635 (20022718)    249.33538 (20040918)    258.27413 (20040918)
  259.61921 (20040918)    252.77569 (20040918)
 3859879.4 |    230.28480 (20040918)    246.48893 (20040918)    254.76165 (20040918)
  255.34627 (20040918)    249.32850 (20040918)
 3859860.0 |    226.27626 (20040918)    242.08613 (20040918)    250.01181 (20040918)
  250.47349 (20040918)    244.23961 (20040918)
 3859840.5 |    222.36190 (20040918)    237.48643 (20040918)    244.84490 (20040918)
  245.19439 (20040918)    239.03732 (20040918)
 3859821.1 |    218.41254 (20040918)    232.93312 (20040918)    240.05019 (20040918)
  239.65106 (20040918)    233.36646 (20040918)
 3859801.7 |    214.80100 (20040918)    228.63160 (20040918)    235.09775 (20040918)
  233.65217 (20040918)    224.80271 (20040918)
 3859782.3 |    211.14808 (20040918)    224.43356 (20040918)    230.41256 (20040918)
  228.69322 (20040918)    219.65059 (20040918)
 3859762.9 |    207.63060 (20040918)    220.50519 (20040918)    226.72173 (20040918)
  226.27051 (20040918)    218.82296 (20040918)
 3859743.4 |    204.02970 (20040918)    216.43697 (20040918)    222.51160 (20040918)
  222.08297 (20040918)    215.22082 (20040918)
 3859724.0 |    200.52248 (20040918)    212.50069 (20040918)    218.25825 (20040918)
  217.44820 (20040918)    210.85597 (20040918)
 3859704.6 |    197.80518 (20040918)    208.98222 (20040918)    214.03692 (20040918)
  213.03082 (20040918)    205.52471 (20040918)
 3859685.2 |    194.48414 (20040918)    205.33051 (20040918)    210.30858 (20040918)
  209.08444 (20040918)    201.54074 (20040918)
 3859665.8 |    191.31629 (20040918)    201.76345 (20040918)    206.80381 (20040918)
  205.92702 (20040918)    198.84397 (20040918)
 3859646.4 |    188.56967 (20040918)    198.48178 (20040918)    203.13406 (20040918)
  202.09107 (20040918)    195.29729 (20040918)
 3859626.9 |    185.60127 (20040918)    195.35791 (20040918)    199.55236 (20040918)
  198.52636 (20040918)    191.70695 (20040918)
 3859607.5 |    182.65540 (20040918)    192.13687 (20040918)    196.24922 (20040918)
  195.06599 (20040918)    188.07387 (20040918)
 3859588.1 |    180.24014 (20040918)    189.51317 (20040918)    193.38257 (20040918)
  191.86369 (20040918)    184.85012 (20040918)
 3859568.7 |    177.96618 (20040918)    186.78972 (20040918)    190.54821 (20040918)
  188.74186 (20040918)    181.57458 (20040918)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 470
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP:  LOADING3 ***
                                  INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                  L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                  L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489430.26               489449.56               489468.86
      489488.16               489507.46
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    248.03464 (20040918)    242.90249 (15120819)    239.94933 (15120819)
   224.83378 (15120819)    208.41318 (15120819)
 3859937.6 |    247.74381 (20040918)    245.55439 (15120819)    245.11901 (15120819)
   235.72564 (15120819)    221.97110 (15120819)
 3859918.2 |    240.68543 (20040918)    240.26076 (15120819)    242.09636 (15120819)
   236.35045 (15120819)    223.61274 (15120819)
 3859898.8 |    238.40385 (20040918)    237.18229 (15120819)    237.89639 (15120819)
   233.15025 (15120819)    222.26144 (15120819)
 3859879.4 |    235.98114 (20040918)    234.54203 (15120819)    233.75498 (15120819)
   229.92419 (15120819)    221.03662 (15120819)
 3859860.0 |    231.16433 (20040918)    232.27775 (15120819)    233.98490 (15120819)
   229.59454 (15120819)    219.08944 (15120819)
 3859840.5 |    226.31953 (16020819)    227.56138 (15120819)    230.50340 (15120819)
   226.52309 (15120819)    216.01545 (15120819)
 3859821.1 |    222.36271 (16020819)    222.54214 (15120819)    225.91737 (15120819)
   222.58179 (15120819)    212.71762 (15120819)
 3859801.7 |    219.75666 (16020819)    217.35063 (15120819)    221.28922 (15120819)
   218.53984 (15120819)    209.46718 (15120819)
 3859782.3 |    216.78813 (16020819)    212.17456 (15120819)    216.50101 (15120819)
   214.55377 (15120819)    206.12964 (15120819)
 3859762.9 |    212.03623 (16020819)    207.64129 (16020819)    211.38649 (15120819)
   210.60333 (15120819)    203.16446 (15120819)
 3859743.4 |    208.22459 (16020819)    203.97471 (16020819)    207.05157 (15120819)
   206.69034 (15120819)    200.08235 (15120819)
 3859724.0 |    204.12561 (16020819)    200.69224 (16020819)    203.07351 (15120819)
   202.98355 (15120819)    196.98818 (15120819)
 3859704.6 |    201.08454 (16020819)    197.25083 (16020819)    198.69360 (15120819)
   199.35171 (15120819)    193.90458 (15120819)
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 3859685.2 |    197.64185 (16020819)    194.03975 (16020819)    194.95007 (15120819)
   195.79286 (15120819)    190.83325 (15120819)
 3859665.8 |    193.80782 (16020819)    190.77765 (16020819)    191.26832 (15120819)
   192.30521 (15120819)    187.77605 (15120819)
 3859646.4 |    190.46423 (16020819)    187.65342 (16020819)    187.68147 (15120819)
   189.08021 (15120819)    184.89170 (15120819)
 3859626.9 |    187.21211 (16020819)    184.62040 (16020819)    184.18589 (15120819)
   185.53723 (15120819)    181.52429 (15120819)
 3859607.5 |    184.27131 (16020819)    181.67472 (16020819)    180.32993 (15120819)
   181.56435 (15120819)    177.82431 (15120819)
 3859588.1 |    181.20863 (16020819)    178.72311 (16020819)    177.84636 (15120819)
   179.25039 (15120819)    175.72377 (15120819)
 3859568.7 |    178.14696 (16020819)    175.78077 (16020819)    175.21725 (15120819)
   177.03921 (15120819)    173.80223 (15120819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 471
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
                                  INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                  L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                  L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489526.76              489546.06              489565.36
      489584.66              489603.96
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    194.13927 (18120603)    195.17858 (18120603)    192.70310 (20030523)
   187.54282 (15112019)    174.34595 (15112019)
 3859937.6 |    217.79947 (18120603)    218.81934 (18120603)    215.71124 (20030523)
   211.63970 (15112019)    206.64818 (15112019)
 3859918.2 |    220.66933 (18120603)    221.52768 (18120603)    213.50723 (20030523)
```

```
  212.53840 (20030523)    212.00844 (15112019)
 3859898.8 |    219.82408 (18120603)    220.05216 (18120603)    215.96878 (18120603)
  217.57995 (20030523)    213.83287 (15112019)
 3859879.4 |    219.00634 (18120603)    219.02296 (18120603)    216.55098 (18120603)
  217.95259 (20030523)    216.41259 (15112019)
 3859860.0 |    217.94200 (18120603)    220.11402 (18120603)    218.95250 (18120603)
  217.75224 (20030523)    214.67239 (15112019)
 3859840.5 |    213.95805 (18120603)    218.99366 (18120603)    218.15022 (18120603)
  215.07764 (20030523)    213.35800 (20030523)
 3859821.1 |    208.78987 (18120603)    215.36610 (18120603)    215.56373 (18120603)
  210.32484 (20030523)    212.48173 (20030523)
 3859801.7 |    204.41035 (18120603)    211.57235 (18120603)    213.20369 (18120603)
  208.42197 (18120603)    209.52364 (20030523)
 3859782.3 |    199.81114 (18120603)    207.62115 (18120603)    210.24683 (18120603)
  206.81889 (18120603)    205.94472 (20030523)
 3859762.9 |    194.70338 (18120603)    203.86380 (18120603)    207.12912 (18120603)
  204.45092 (18120603)    201.85726 (20030523)
 3859743.4 |    189.80088 (18120603)    199.59651 (18120603)    203.85614 (18120603)
  201.96026 (18120603)    197.79467 (20030523)
 3859724.0 |    184.52587 (18120603)    195.21177 (18120603)    200.17874 (18120603)
  199.58329 (18120603)    193.68504 (20030523)
 3859704.6 |    181.81375 (15120819)    190.72534 (18120603)    196.65037 (18120603)
  197.04564 (18120603)    191.47131 (18120603)
 3859685.2 |    179.28618 (15120819)    186.15374 (18120603)    192.99195 (18120603)
  194.35320 (18120603)    189.68120 (18120603)
 3859665.8 |    176.76049 (15120819)    181.33026 (18120603)    189.21522 (18120603)
  191.36221 (18120603)    187.75675 (18120603)
 3859646.4 |    174.23767 (15120819)    176.66314 (18120603)    185.17777 (18120603)
  188.27033 (18120603)    185.70262 (18120603)
 3859626.9 |    171.92741 (15120819)    172.09457 (18120603)    181.35844 (18120603)
  185.32410 (18120603)    183.63327 (18120603)
 3859607.5 |    169.20496 (15120819)    167.45348 (18120603)    177.48858 (18120603)
  182.26883 (18120603)    181.41155 (18120603)
 3859588.1 |    167.80609 (15120819)    162.27615 (18120603)    173.18666 (18120603)
  178.80355 (18120603)    178.97934 (18120603)
 3859568.7 |    166.50103 (15120819)    156.93876 (18120603)    168.67889 (18120603)
  175.27724 (18120603)    176.44082 (18120603)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 472
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
                                  INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                 L0000209    , L0000210    , L0000211    , L0000212    , L0000213
```

, L0000214   , L0000215   , L0000216   ,
                L0000217   , L0000218   , L0000219   , L0000220   , L0000221
, L0000222   , L0000223   , L0000224   ,
                L0000225   , L0000226   , L0000227   , L0000228   , L0000229
, L0000230   , L0000231   ,

                                *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489623.26
 -
- -

 3859957.1 | 157.62216 (16112920)
 3859937.6 | 182.77155 (15112019)
 3859918.2 | 196.91970 (15112019)
 3859898.8 | 210.03792 (15112019)
 3859879.4 | 215.11067 (15112019)
 3859860.0 | 216.33305 (15112019)
 3859840.5 | 216.18324 (15112019)
 3859821.1 | 213.99498 (15112019)
 3859801.7 | 210.63572 (15112019)
 3859782.3 | 206.37893 (15112019)
 3859762.9 | 202.88186 (20030523)
 3859743.4 | 200.03862 (20030523)
 3859724.0 | 196.81866 (20030523)
 3859704.6 | 193.30925 (20030523)
 3859685.2 | 189.55707 (20030523)
 3859665.8 | 185.62621 (20030523)
 3859646.4 | 181.53108 (20030523)
 3859626.9 | 177.28667 (20030523)
 3859607.5 | 175.46034 (18120603)
 3859588.1 | 173.97756 (18120603)
 3859568.7 | 172.29108 (18120603)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING3 ***
                                   INCLUDING SOURCE(S):   L0000204   , L0000205
, L0000206   , L0000207   , L0000208   ,

```
                 L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                 L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                 L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489260.34              489284.99              489309.64
      489334.29              489358.94
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3859173.4 |    121.22802 (20022718)    124.79391 (16122922)    129.08176 (20040918)
   138.29103 (20040918)    142.07002 (20040918)
 3859151.9 |    118.97739 (20022718)    123.73557 (16122922)    127.72037 (20040918)
   136.52810 (20040918)    140.05782 (20040918)
 3859130.3 |    116.57432 (20022718)    122.41548 (16122922)    126.34681 (20040918)
   134.80098 (20040918)    138.09089 (20040918)
 3859108.7 |    114.19035 (20022718)    121.02705 (16122922)    124.98505 (20040918)
   133.12388 (20040918)    136.18847 (20040918)
 3859087.1 |    112.94180 (16122922)    119.61609 (16122922)    123.64583 (20040918)
   131.46554 (20040918)    134.30755 (20040918)
 3859065.6 |    111.97567 (16122922)    118.23300 (16122922)    122.32859 (20040918)
   129.84937 (20040918)    132.46771 (20040918)
 3859044.0 |    110.97471 (16122922)    116.84383 (16122922)    121.02793 (20040918)
   128.25577 (20040918)    130.68096 (20040918)
 3859022.4 |    110.00693 (16122922)    115.48481 (16122922)    119.75402 (20040918)
   126.69288 (20040918)    128.91932 (20040918)
 3859000.9 |    108.96744 (16122922)    114.11755 (16122922)    118.50043 (20040918)
   125.15987 (20040918)    127.19509 (20040918)
 3858979.3 |    107.96177 (16122922)    112.75947 (16122922)    117.26666 (20040918)
   123.65592 (20040918)    125.50719 (20040918)
 3858957.7 |    107.03520 (16122922)    111.45936 (16122922)    116.04565 (20040918)
   122.16945 (20040918)    123.84240 (20040918)
 3858936.1 |    106.06837 (16122922)    110.14743 (16122922)    114.85101 (20040918)
   120.73207 (20040918)    122.23614 (20040918)
 3858914.6 |    105.10164 (16122922)    108.82654 (16122922)    113.66469 (20040918)
   119.31625 (20040918)    120.65096 (20040918)
 3858893.0 |    104.13553 (16122922)    107.51477 (16122922)    112.47378 (20040918)
   117.92149 (20040918)    119.08707 (20040918)
 3858871.4 |    103.19793 (16122922)    106.26286 (16122922)    111.33575 (20040918)
   116.55188 (20040918)    117.58184 (20040918)
 3858849.9 |    102.25507 (16122922)    104.99879 (16122922)    110.23230 (20040918)
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	489383.59	489408.24	489432.89	489457.54	489482.19
3859173.4	140.04587 (20040918)	132.58157 (20040918)	132.20040 (16020819)	130.50776 (16020819)	126.99759 (15120819)
3859151.9	137.91531 (20040918)	130.47030 (20040918)	130.30182 (16020819)	128.73420 (16020819)	124.77309 (15120819)
3859130.3	135.86460 (20040918)	128.41238 (20040918)	128.35494 (16020819)	127.00102 (16020819)	122.60345 (15120819)
3859108.7	133.83393 (20040918)	126.40595 (20040918)	126.44991 (16020819)	125.20996 (16020819)	120.48088 (15120819)

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 3859087.1 |    131.82503 (20040918)    124.46224 (20040918)    124.68612 (16020819)
   123.45504 (16020819)    118.40417 (15120819)
 3859065.6 |    129.91505 (20040918)    122.55682 (20040918)    122.96304 (16020819)
   121.93798 (16020819)    116.36579 (15120819)
 3859044.0 |    128.04136 (20040918)    120.68335 (20040918)    121.27923 (16020819)
   120.44730 (16020819)    114.59723 (16020819)
 3859022.4 |    126.19262 (20040918)    118.87259 (20040918)    119.72311 (16020819)
   118.89758 (16020819)    113.14602 (16020819)
 3859000.9 |    124.39579 (20040918)    117.09240 (20040918)    118.11277 (16020819)
   117.38087 (16020819)    111.90441 (16020819)
 3858979.3 |    122.63258 (20040918)    115.35693 (20040918)    116.53818 (16020819)
   115.97885 (16020819)    110.59831 (16020819)
 3858957.7 |    120.90226 (20040918)    113.66211 (20040918)    114.99807 (16020819)
   114.60068 (16020819)    109.31814 (16020819)
 3858936.1 |    119.21568 (20040918)    111.99516 (20040918)    113.31826 (16020819)
   113.01961 (16020819)    107.97703 (16020819)
 3858914.6 |    117.56350 (20040918)    110.37697 (20040918)    111.84693 (16020819)
   111.54231 (16020819)    106.74770 (16020819)
 3858893.0 |    115.94645 (20040918)    108.77791 (20040918)    110.40712 (16020819)
   110.17861 (16020819)    105.54200 (16020819)
 3858871.4 |    114.36598 (20040918)    107.23161 (20040918)    108.99799 (16020819)
   108.75691 (16020819)    104.27245 (16020819)
 3858849.9 |    112.81317 (20040918)    105.71986 (20040918)    107.53061 (16020819)
   107.36025 (16020819)    103.02337 (16020819)
 3858828.3 |    111.29800 (20040918)    104.21765 (20040918)    106.09039 (16020819)
   106.07982 (16020819)    101.88706 (16020819)
 3858806.7 |    109.80360 (20040918)    102.67252 (20040918)    104.67657 (16020819)
   104.73414 (16020819)    100.77179 (16020819)
 3858785.2 |    108.36226 (20040918)    101.29410 (20040918)    103.38490 (16020819)
   103.41150 (16020819)     99.49256 (16020819)
 3858763.6 |    106.93987 (20040918)     99.97200 (20040918)    102.11945 (16020819)
   102.20740 (16020819)     98.32357 (16020819)
 3858742.0 |    105.51739 (20040918)     98.60802 (19122223)    100.87946 (16020819)
   101.02646 (16020819)     97.27190 (16020819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 475
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
                                   INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                  L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
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                 L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489506.84               489531.49               489556.14
      489580.79              489605.44
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3859173.4 |    131.13660 (15120819)    130.21967 (15120819)    124.33634 (15120819)
   114.24163 (15120819)    113.80181 (19102618)
 3859151.9 |    129.11591 (15120819)    128.52682 (15120819)    123.08594 (15120819)
   113.43154 (15120819)    112.58275 (19102618)
 3859130.3 |    127.13105 (15120819)    126.84406 (15120819)    121.81878 (15120819)
   112.61661 (15120819)    111.17078 (19102618)
 3859108.7 |    125.18133 (15120819)    125.19337 (15120819)    120.54842 (15120819)
   111.79162 (15120819)    109.57672 (19102618)
 3859087.1 |    123.21466 (15120819)    123.54746 (15120819)    119.27909 (15120819)
   110.95986 (15120819)    108.03921 (19102618)
 3859065.6 |    121.33603 (15120819)    121.91770 (15120819)    118.04712 (15120819)
   110.12427 (15120819)    106.48203 (19102618)
 3859044.0 |    119.51110 (15120819)    120.30446 (15120819)    116.80741 (15120819)
   109.28384 (15120819)    104.99884 (19102618)
 3859022.4 |    117.69730 (15120819)    118.76309 (15120819)    115.53988 (15120819)
   108.43913 (15120819)    103.50160 (19102618)
 3859000.9 |    115.92887 (15120819)    117.21641 (15120819)    114.31588 (15120819)
   107.59069 (15120819)    101.99221 (19102618)
 3858979.3 |    114.17749 (15120819)    115.70865 (15120819)    113.11997 (15120819)
   106.73638 (15120819)    100.55693 (19102618)
 3858957.7 |    112.44554 (15120819)    114.20156 (15120819)    111.93798 (15120819)
   105.87405 (15120819)     99.10777 (19102618)
 3858936.1 |    110.75617 (15120819)    112.71433 (15120819)    110.73828 (15120819)
   105.02761 (15120819)     97.49263 (19102618)
 3858914.6 |    109.08277 (15120819)    111.23009 (15120819)    109.54702 (15120819)
   104.16299 (15120819)     95.87046 (19102618)
 3858893.0 |    107.43648 (15120819)    109.78266 (15120819)    108.35521 (15120819)
   103.30344 (15120819)     95.09270 (15120819)
 3858871.4 |    105.86990 (15120819)    108.37812 (15120819)    107.19101 (15120819)
   102.44279 (15120819)     94.54294 (15120819)
 3858849.9 |    104.29449 (15120819)    106.96663 (15120819)    106.02659 (15120819)
   101.58153 (15120819)     94.03706 (15120819)
 3858828.3 |    102.74431 (15120819)    105.57780 (15120819)    104.87132 (15120819)
   100.72339 (15120819)     93.49619 (15120819)
 3858806.7 |    101.21532 (15120819)    104.20171 (15120819)    103.72923 (15120819)
```

   99.86167 (15120819)   92.94734 (15120819)
 3858785.2 | 99.70623 (15120819)   102.83836 (15120819)   102.58722 (15120819)
   98.99074 (15120819)   92.36814 (15120819)
 3858763.6 | 98.21681 (15120819)   101.48769 (15120819)   101.45014 (15120819)
   98.12017 (15120819)   91.77914 (15120819)
 3858742.0 | 96.74677 (15120819)   100.17632 (15120819)   100.34045 (15120819)
   97.24627 (15120819)   91.11331 (15120819)
 *** AERMOD - VERSION 23132 ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054 Lennwood\Lennwood\Lennwo ***   07/17/24
 *** AERMET - VERSION 19191 ***   ***
                       ***   01:16:45

                                 PAGE 476
 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                 INCLUDING SOURCE(S):   L0000204   , L0000205 , L0000206   , L0000207   , L0000208   ,
                  L0000209   , L0000210   , L0000211   , L0000212   , L0000213 , L0000214   , L0000215   , L0000216   ,
                  L0000217   , L0000218   , L0000219   , L0000220   , L0000221 , L0000222   , L0000223   , L0000224   ,
                  L0000225   , L0000226   , L0000227   , L0000228   , L0000229 , L0000230   , L0000231   ,

                                  *** NETWORK ID: UCART2   ; NETWORK TYPE: GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489630.09   489654.74   489679.39
      489704.04   489728.69
 - - -

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 3859044.0 |    103.80843 (18120603)    113.25734 (18120603)    118.26360 (18120603)
   118.45580 (18120603)    113.62472 (18120603)
 3859022.4 |    102.26390 (19102618)    110.45151 (18120603)    116.07694 (18120603)
   117.03283 (18120603)    113.01746 (18120603)
 3859000.9 |    101.22608 (19102618)    107.77352 (18120603)    113.83055 (18120603)
   115.38519 (18120603)    112.16928 (18120603)
 3858979.3 |    100.16048 (19102618)    104.93757 (18120603)    111.53070 (18120603)
   113.78154 (18120603)    111.34139 (18120603)
 3858957.7 |     98.98947 (19102618)    102.24333 (18120603)    109.33001 (18120603)
   112.37333 (18120603)    110.67821 (18120603)
 3858936.1 |     97.87516 (19102618)     99.54859 (18120603)    106.94482 (18120603)
   110.62187 (18120603)    109.65628 (18120603)
 3858914.6 |     96.73855 (19102618)     96.71072 (18120603)    104.67250 (18120603)
   108.80122 (18120603)    108.54088 (18120603)
 3858893.0 |     95.58131 (19102618)     94.03099 (18120603)    102.37220 (18120603)
   107.05759 (18120603)    107.33647 (18120603)
 3858871.4 |     94.32545 (19102618)     92.19664 (19102618)    100.04936 (18120603)
   105.25767 (18120603)    106.04758 (18120603)
 3858849.9 |     93.13313 (19102618)     91.34393 (19102618)     97.56376 (18120603)
   103.26807 (18120603)    104.82035 (18120603)
 3858828.3 |     91.92550 (19102618)     90.54718 (19102618)     95.21227 (18120603)
   101.37244 (18120603)    103.51952 (18120603)
 3858806.7 |     90.53913 (19102618)     89.63787 (19102618)     92.85335 (18120603)
    99.43623 (18120603)    102.14979 (18120603)
 3858785.2 |     89.30697 (19102618)     88.61106 (19102618)     90.34520 (18120603)
    97.18025 (18120603)    100.57739 (18120603)
 3858763.6 |     88.06406 (19102618)     87.73899 (19102618)     87.83712 (18120603)
    95.03266 (18120603)     98.94352 (18120603)
 3858742.0 |     86.89421 (19102618)     87.01764 (19102618)     85.63264 (18120603)
    93.29525 (18120603)     97.25308 (18120603)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 477
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
                                   INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                   L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                   L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                   L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                    *** NETWORK ID: UCART2   ;  NETWORK TYPE:
```

GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489753.34
 -
- -

 3859173.4 | 125.75564 (20030523)
 3859151.9 | 123.96688 (20030523)
 3859130.3 | 122.00763 (20030523)
 3859108.7 | 119.79826 (20030523)
 3859087.1 | 117.71778 (20030523)
 3859065.6 | 115.41751 (20030523)
 3859044.0 | 112.90846 (20030523)
 3859022.4 | 110.29002 (20030523)
 3859000.9 | 107.57461 (20030523)
 3858979.3 | 104.77569 (18120603)
 3858957.7 | 104.48192 (18120603)
 3858936.1 | 104.20685 (18120603)
 3858914.6 | 103.82564 (18120603)
 3858893.0 | 103.47829 (18120603)
 3858871.4 | 102.89634 (18120603)
 3858849.9 | 102.35558 (18120603)
 3858828.3 | 101.58578 (18120603)
 3858806.7 | 101.00101 (18120603)
 3858785.2 | 100.19468 (18120603)
 3858763.6 | 99.17407 (18120603)
 3858742.0 | 98.07475 (18120603)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING3 ***
                                   INCLUDING SOURCE(S):   L0000204   , L0000205
, L0000206   , L0000207   , L0000208   ,
                  L0000209   , L0000210   , L0000211   , L0000212   , L0000213
, L0000214   , L0000215   , L0000216   ,
                  L0000217   , L0000218   , L0000219   , L0000220   , L0000221
, L0000222   , L0000223   , L0000224   ,
                  L0000225   , L0000226   , L0000227   , L0000228   , L0000229
, L0000230   , L0000231   ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 488584.66	488614.48	488644.30	488674.12	488703.94
3858905.0	92.08340 (19121917)	90.16620 (19121917)	89.75568 (20090924)	88.92731 (20090924)	87.32291 (15013017)
3858880.0	90.28561 (19121917)	87.32015 (19121917)	88.41288 (20090924)	86.12149 (20090924)	86.75155 (15013017)
3858855.1	88.22144 (19121917)	86.11454 (20090924)	86.80172 (20090924)	83.72871 (15013017)	85.52166 (15013017)
3858830.2	85.60923 (19121917)	85.18720 (20090924)	85.08815 (20090924)	84.18734 (15013017)	85.01319 (20040923)
3858805.3	84.20064 (20090924)	86.21861 (20090924)	82.35980 (20090924)	82.79570 (15013017)	85.49738 (20040923)
3858780.3	82.80757 (20090924)	82.42474 (20090924)	79.91016 (15013017)	81.54800 (15013017)	86.37924 (20040923)
3858755.4	81.47078 (20090924)	79.97248 (20090924)	79.50621 (15013017)	80.82855 (20040923)	86.31876 (20040923)
3858730.5	80.09817 (20090924)	77.70513 (20090924)	78.81685 (15013017)	81.35286 (20040923)	85.75057 (20040923)
3858705.5	78.36699 (20090924)	76.14792 (15013017)	77.75747 (15013017)	81.83107 (20040923)	85.38166 (16020520)
3858680.6	76.46864 (20090924)	75.85986 (15013017)	77.21791 (20040923)	82.45396 (20040923)	86.20849 (16020520)
3858655.7	74.26154 (20090924)	75.21320 (15013017)	77.52775 (20040923)	82.01919 (20040923)	86.22969 (16020520)
3858630.8	73.48768 (15013017)	74.44949 (15013017)	78.19755 (20040923)	81.59048 (20040923)	86.07709 (16020520)
3858605.8	73.41619 (15013017)	73.52852 (20040923)	78.58560 (20040923)	81.93073 (16020520)	85.63703 (16020520)
3858580.9	72.90374 (15013017)	74.50144 (20040923)	78.69310 (20040923)	82.19948 (16020520)	85.89370 (16012217)
3858556.0	71.68615 (15013017)	74.95701 (20040923)	78.38178 (20040923)	82.31783 (16020520)	86.23851 (16012217)
3858531.0	70.73581 (15013017)	75.53014 (20040923)	78.28272 (16020520)	82.04353 (16020520)	86.30714 (16012217)
3858506.1	71.53301 (20040923)	75.58149 (20040923)	78.88200 (16020520)	81.76245 (16012217)	86.31772 (16012217)
3858481.2	72.27455 (20040923)	75.50441 (20040923)	79.22327 (16020520)	82.35548 (16012217)	85.96218 (16012217)
3858456.2	72.76852 (20040923)	75.29966 (20040923)	79.10130 (16020520)	82.60507 (16012217)	85.25589 (16012217)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                 INCLUDING SOURCE(S):   L0000204   , L0000205 , L0000206   , L0000207   , L0000208   ,
                 L0000209   , L0000210   , L0000211   , L0000212   , L0000213 , L0000214   , L0000215   , L0000216   ,
                 L0000217   , L0000218   , L0000219   , L0000220   , L0000221 , L0000222   , L0000223   , L0000224   ,
                 L0000225   , L0000226   , L0000227   , L0000228   , L0000229 , L0000230   , L0000231   ,

                                  *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 488733.76   488763.58   488793.40
      488823.22   488853.04
 -

 3858905.0 | 89.70673 (20040923)   96.14459 (20040923)   100.80164 (16020520)
   106.35834 (16012217)   109.84830 (16012217)
 3858880.0 | 91.01592 (20040923)   95.32158 (20040923)   100.55904 (16020520)
   105.78672 (16012217)   107.92992 (16012217)
 3858855.1 | 91.54338 (20040923)   94.88919 (16020520)   100.04500 (16012217)
   105.31695 (16012217)   105.80110 (16012217)
 3858830.2 | 90.49301 (20040923)   95.20806 (16020520)   100.24315 (16012217)
   104.23050 (16012217)   103.38103 (16012217)
 3858805.3 | 90.11679 (20040923)   95.17295 (16020520)   100.41362 (16012217)
   102.93663 (16012217)   100.82628 (16012217)
 3858780.3 | 90.33969 (16020520)   94.79196 (16020520)   100.23346 (16012217)
   101.45688 (16012217)   98.35500 (16012217)
 3858755.4 | 90.80339 (16020520)   95.06518 (16012217)   99.59613 (16012217)
    99.67805 (16012217)   96.01049 (20122517)
 3858730.5 | 90.54568 (16020520)   95.23831 (16012217)   98.51416 (16012217)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	488882.86	488912.68	488942.50	488972.32	489002.14
3858905.0	107.40634 (16012217)	103.57128 (20122517)	100.41343 (18122220)	105.78627 (18122220)	105.70182 (18122220)
3858880.0	104.51808 (16012217)	101.14514 (20122517)	100.46348 (18122220)	104.50900 (18122220)	103.42519 (18122220)
3858855.1	101.65284 (20122517)	98.52398 (20122517)	100.28777 (18122220)	103.21431 (18122220)	101.08210 (18122220)
3858830.2	99.70739 (20122517)	95.73121 (20122517)	99.97421 (18122220)	101.95732 (18122220)	98.47709 (18122220)
3858805.3	97.40317 (20122517)	93.85847 (18122220)	99.36732 (18122220)	100.49728 (18122220)	95.90173 (18122220)
3858780.3	95.63603 (20122517)	94.25956 (18122220)	98.62904 (18122220)	98.43529 (18122220)	93.31810 (18122220)
3858755.4	93.24060 (20122517)	94.22485 (18122220)	97.55579 (18122220)	96.27233 (18122220)	90.50271 (18122220)
3858730.5	90.34540 (20122517)	93.85567 (18122220)	96.23288 (18122220)	94.04571 (18122220)	87.59705 (18122220)
3858705.5	87.66151 (18122220)	93.33800 (18122220)	94.81696 (18122220)	91.77446 (18122220)	84.62273 (18122220)
3858680.6	88.13865 (18122220)	92.77592 (18122220)	93.24967 (18122220)	89.40881 (18122220)	83.80235 (18010221)
3858655.7	88.19966 (18122220)	91.96386 (18122220)	91.54425 (18122220)	86.85704 (18122220)	84.13542 (18010221)
3858630.8	88.12857 (18122220)	90.90984 (18122220)	89.71402 (18122220)	84.35575 (18122220)	84.37206 (18010221)
3858605.8	87.87633 (18122220)	89.69663 (18122220)	87.70897 (18122220)	81.80187 (18122220)	84.50688 (18010221)
3858580.9	87.37931 (18122220)	88.33756 (18122220)	85.61003 (18122220)	79.24572 (18122220)	84.54266 (18010221)
3858556.0	86.78594 (18122220)	87.00288 (18122220)	83.49241 (18122220)	76.61762 (18122220)	84.50900 (18010221)
3858531.0	86.03553 (18122220)	85.53769 (18122220)	81.35473 (18122220)	76.99462 (18010221)	84.32938 (18010221)
3858506.1	85.20888 (18122220)	83.95207 (18122220)	79.18471 (18122220)	77.38281 (18010221)	84.11851 (18010221)
3858481.2	84.30319 (18122220)	82.25625 (18122220)	76.90141 (18122220)	77.66368 (18010221)	83.82271 (18010221)
3858456.2	83.24976 (18122220)	80.46029 (18122220)	74.53953 (18122220)	77.85545 (18010221)	83.41523 (18010221)
3858431.3	81.83844 (18122220)	78.57450 (18122220)	72.14871 (18122220)	77.97847 (18010221)	82.95916 (18010221)
3858406.4	80.48978 (18122220)	76.60934 (18122220)	70.64006 (18010221)	78.00124 (18010221)	82.39772 (18010221)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 , L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 , L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 , L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489031.96	489061.78	489091.60	489121.42	489151.24
3858905.0	100.21376 (18122220)	101.21614 (18010221)	107.75534 (18010221)	108.68459 (18010221)	105.06339 (19011424)
3858880.0	97.07507 (18122220)	101.04197 (18010221)	106.65957 (18010221)	106.73569 (18010221)	103.98924 (19011424)
3858855.1	93.82932 (18122220)	100.71026 (18010221)	105.46360 (18010221)	104.76456 (18010221)	102.85776 (19011424)
3858830.2	91.66679 (18010221)	100.28717 (18010221)	104.25235 (18010221)	102.76162 (18010221)	101.68407 (19011424)
3858805.3	91.97542 (18010221)	99.82298 (18010221)	102.79994 (18010221)	100.59990 (18010221)	100.44029 (19011424)
3858780.3	92.18412 (18010221)	99.21575 (18010221)	101.38792 (18010221)	98.45787 (18010221)	99.16837 (19011424)
3858755.4	92.26702 (18010221)	98.50553 (18010221)	99.93200 (18010221)	96.30984 (18010221)	97.84023 (19011424)
3858730.5	92.20507 (18010221)	97.69665 (18010221)	98.36757 (18010221)	94.44096 (19011424)	96.47025 (19011424)
3858705.5	92.02201 (18010221)	96.70377 (18010221)	96.65466 (18010221)	93.66632 (19011424)	95.06166 (19011424)
3858680.6	91.75606 (18010221)	95.60539 (18010221)	94.83632 (18010221)		

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    92.85507 (19011424)     93.64997 (19011424)
 3858655.7 |     91.38881 (18010221)     94.58793 (18010221)     93.12896 (18010221)
    91.96957 (19011424)     92.18826 (19011424)
 3858630.8 |     90.92466 (18010221)     93.41519 (18010221)     91.37380 (18010221)
    91.02817 (19011424)     90.69081 (19011424)
 3858605.8 |     90.36814 (18010221)     92.13491 (18010221)     89.57619 (18010221)
    90.05890 (19011424)     89.19016 (19011424)
 3858580.9 |     89.72396 (18010221)     90.83044 (18010221)     87.71796 (18010221)
    89.04941 (19011424)     87.66239 (19011424)
 3858556.0 |     89.03486 (18010221)     89.50545 (18010221)     85.83511 (18010221)
    87.99038 (19011424)     86.11818 (19011424)
 3858531.0 |     88.23011 (18010221)     88.08985 (18010221)     84.90455 (19011424)
    86.89277 (19011424)     84.56083 (19011424)
 3858506.1 |     87.35144 (18010221)     86.65830 (18010221)     84.30391 (19011424)
    85.75836 (19011424)     82.99314 (19011424)
 3858481.2 |     86.43965 (18010221)     85.15132 (18010221)     83.65508 (19011424)
    84.59765 (19011424)     81.41774 (19011424)
 3858456.2 |     85.45990 (18010221)     83.60662 (18010221)     82.95821 (19011424)
    83.40575 (19011424)     80.35691 (20022718)
 3858431.3 |     84.38647 (18010221)     82.05226 (18010221)     82.21779 (19011424)
    82.18845 (19011424)     79.44318 (20022718)
 3858406.4 |     83.25701 (18010221)     80.46267 (18010221)     81.43420 (19011424)
    80.93843 (19011424)     78.39992 (20022718)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 482
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
                                   INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                    *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489181.06
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  (METERS) |       489386.10              489460.62              489535.14
      489609.66              489684.18
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |    103.18430 (19121703)    111.35029 (20122019)    109.31207 (16020720)
   111.29579 (16020722)    109.00053 (19123008)
 3861650.6 |    106.67110 (19121703)    114.31029 (20122019)    113.93048 (16020720)
   115.64400 (16020722)    113.25799 (19123008)
 3861625.5 |    110.18969 (19121703)    116.93202 (20122019)    117.67706 (16020720)
   119.18152 (16020722)    116.99305 (19123008)
 3861600.3 |    113.57713 (19121703)    121.24946 (20122019)    121.36652 (16020720)
   122.71593 (16020722)    121.49840 (19123008)
 3861575.2 |    119.36030 (19121703)    124.29364 (20122019)    124.80260 (16020720)
   126.23187 (16020722)    124.76746 (19123008)
 3861550.1 |    123.34297 (19121703)    127.80421 (20122019)    129.35613 (16020720)
   129.37340 (16020722)    125.80362 (19123008)
 3861524.9 |    126.99809 (19121703)    131.94184 (20021406)    133.68474 (16020720)
   132.07090 (16020722)    127.29041 (19121118)
 3861499.8 |    130.81058 (19121703)    135.97301 (20021406)    137.74299 (19010903)
   135.17402 (16020722)    132.97552 (19121118)
 3861474.6 |    134.78853 (19121703)    139.98154 (20021406)    141.91066 (19010903)
   138.35765 (16020722)    138.82337 (19121118)
 3861449.5 |    138.53052 (19121703)    144.15889 (20021406)    146.15098 (19010903)
   142.96534 (16122202)    142.15535 (19121118)
 3861424.4 |    142.84283 (19121703)    148.73875 (20021406)    150.23101 (19010903)
   147.53235 (16122202)    146.63874 (19121118)
 3861399.2 |    147.34584 (19121703)    153.05425 (20021406)    154.10749 (19010903)
   152.58125 (16122202)    150.98810 (18120822)
 3861374.1 |    151.80784 (19121703)    157.28840 (20021406)    158.48714 (19010903)
   157.74538 (19123008)    155.51532 (18120822)
 3861348.9 |    156.45275 (19121703)    161.93683 (20021406)    162.92761 (16020722)
   162.93007 (19123008)    158.95858 (18120822)
 3861323.8 |    161.28847 (19121703)    167.61111 (20021406)    170.12227 (16020722)
   167.79168 (19123008)    165.45031 (19122119)
 3861298.7 |    166.60918 (19121703)    173.27947 (20021406)    177.48463 (16020722)
   172.56055 (19123008)    173.64753 (19122119)
 3861273.5 |    172.77911 (19121703)    178.90822 (20021406)    184.36590 (16020722)
   178.11040 (19121118)    179.39201 (19122119)
 3861248.4 |    180.39775 (15010420)    185.46273 (20021406)    190.95874 (16020722)
   186.37747 (19121118)    184.47133 (19010320)
 3861223.2 |    189.18830 (15010420)    193.44827 (20021406)    197.89009 (16020722)
   193.49019 (19121118)    192.03234 (19010320)
 3861198.1 |    198.67251 (15010420)    202.51196 (19121219)    205.58669 (16020722)
   201.05317 (18120822)    198.56437 (19010320)
 3861173.0 |    208.91775 (15010420)    212.42099 (19121219)    212.54843 (16020722)
   209.09682 (18120822)    204.45638 (19122222)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 , L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 , L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 , L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489758.70	489833.22	489907.74	489982.26	490056.78
3861675.8	108.22647 (19121118)	105.78870 (19122119)	102.54000 (19010320)	104.87992 (16122718)	107.86373 (19122908)
3861650.6	111.28992 (19121118)	109.08438 (19122119)	105.03760 (16020721)	109.67840 (16122718)	110.94060 (19122908)
3861625.5	114.46769 (19121118)	112.06418 (19122119)	107.32153 (16020721)	114.72183 (18010223)	113.64347 (19122908)
3861600.3	118.68569 (18120822)	115.17213 (19010320)	110.68534 (16122118)	119.97045 (18010223)	116.18889 (19122908)
3861575.2	120.83168 (18120822)	119.23612 (19010320)	114.40049 (16122718)	123.06998 (16122718)	115.22241 (19122908)
3861550.1	122.70188 (20010322)	122.08576 (19010320)	122.30751 (16122718)	128.02998 (19122908)	118.52481 (19022504)
3861524.9	125.77973 (19122119)	124.46857 (19010320)	129.20385 (16122718)	131.37423 (19122908)	125.16243 (19022504)
3861499.8	130.42687 (19122119)	126.31695 (19010320)	135.33475 (16122718)	134.87064 (19122908)	129.69202 (19022504)
3861474.6	134.86538 (19122119)	128.91628 (19122222)	140.27341 (16122718)	137.45854 (19122908)	131.99836 (16010323)
3861449.5	139.42027 (19122119)	134.08884 (16122118)	143.76356 (16122718)	136.27683 (18012324)	134.31106 (16010323)
3861424.4	142.60226 (19010320)	142.59041 (16122718)	152.07896 (19122908)	143.05940 (19022504)	140.06923 (16122308)

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 3861399.2 |    148.50248 (19010320)    152.94560 (16122718)    155.82568 (19122908)
   148.01233 (19022504)    143.71752 (16122308)
 3861374.1 |    153.32807 (19010320)    161.78685 (16122718)    157.17211 (19122908)
   151.64262 (16010323)    145.10432 (16122308)
 3861348.9 |    156.86325 (19010320)    168.08985 (16122718)    156.63631 (19122908)
   156.10675 (16122308)    147.48802 (16122222)
 3861323.8 |    160.63650 (19122222)    171.43222 (20010318)    164.16364 (19022504)
   163.34853 (16122308)    152.67723 (16011801)
 3861298.7 |    167.67285 (16122718)    178.11332 (19122908)    171.71980 (19022504)
   168.28700 (16122308)    157.78983 (16011801)
 3861273.5 |    181.00686 (16122718)    184.51729 (19122908)    177.98244 (16010323)
   169.12581 (16122308)    158.32246 (16011801)
 3861248.4 |    192.33289 (16122718)    188.23495 (19122908)    186.11726 (16122308)
   174.67645 (16122222)    163.99139 (18121521)
 3861223.2 |    202.05356 (16122718)    194.27619 (19022504)    194.23212 (16122308)
   181.22021 (16011801)    171.37521 (16022523)
 3861198.1 |    210.03393 (20010318)    204.58122 (19022504)    198.01072 (16122308)
   183.65818 (16011801)    175.33477 (16022523)
 3861173.0 |    217.92939 (20022002)    212.54355 (16010323)    200.41960 (16122222)
   190.78254 (18121521)    180.63704 (19120601)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 485
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
                                  INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                  L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                  L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                   *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       490131.30              490205.82              490280.34
      490354.86              490429.38
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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 3861675.8 |     99.85253 (18012324)     98.84458 (16010323)     95.83221 (16122308)
    91.25841 (16122222)     87.24713 (16011801)
 3861650.6 |    103.45414 (19022504)    101.34790 (16010323)     98.03390 (16122308)
    92.98547 (16122222)     86.26324 (16011801)
 3861625.5 |    108.69909 (19022504)    105.31903 (16122308)     99.21326 (16122308)
    96.34573 (16011801)     90.51684 (18121521)
 3861600.3 |    113.37632 (19022504)    110.52545 (16122308)    104.58135 (16122222)
   100.27463 (16011801)     95.92063 (18121521)
 3861575.2 |    114.87898 (16010323)    112.84697 (16122308)    107.26003 (16122222)
    98.95055 (16011801)     98.78661 (16022523)
 3861550.1 |    118.54644 (16010323)    113.32856 (16122308)    110.48162 (16011801)
   102.41639 (18121521)    101.29333 (16022523)
 3861524.9 |    122.66961 (16122308)    114.83181 (16122222)    112.27986 (16011801)
   106.66544 (16022523)    100.44967 (19122621)
 3861499.8 |    125.91101 (16122308)    119.82391 (16122222)    112.48874 (16011801)
   111.21163 (16022523)    102.21962 (19120601)
 3861474.6 |    127.76441 (16122308)    124.71228 (16011801)    117.40835 (18121521)
   111.97072 (16022523)    106.27160 (19120601)
 3861449.5 |    129.81356 (16122308)    127.85894 (16011801)    120.24973 (16022523)
   110.69652 (19122621)    107.03620 (19120601)
 3861424.4 |    133.28080 (16122222)    126.97318 (16011801)    123.54188 (16022523)
   114.45757 (19120601)    105.78533 (16021120)
 3861399.2 |    136.63508 (16011801)    129.69329 (18121521)    123.40807 (16022523)
   117.00036 (19120601)    110.55477 (16021120)
 3861374.1 |    140.13381 (16011801)    134.05963 (16022523)    123.70464 (19120601)
   116.40209 (19120601)    112.71244 (16021120)
 3861348.9 |    139.91949 (16011801)    138.11350 (16022523)    128.51606 (19120601)
   119.87876 (16021120)    113.60845 (18011823)
 3861323.8 |    144.42276 (18121521)    136.65197 (16022523)    130.03874 (19120601)
   123.88482 (16021120)    116.89703 (18011823)
 3861298.7 |    151.12560 (16022523)    140.64733 (19120601)    131.44242 (16021120)
   124.39169 (18011823)    118.37502 (15120519)
 3861273.5 |    153.78243 (16022523)    144.98111 (19120601)    136.94336 (16021120)
   128.53527 (18011823)    127.80870 (18020819)
 3861248.4 |    153.04121 (19120601)    144.38476 (19120601)    137.97962 (16021120)
   130.36136 (15120519)    143.49620 (18020819)
 3861223.2 |    161.05777 (19120601)    152.10005 (16021120)    143.39938 (18011823)
   142.86965 (18020819)    154.88321 (18020819)
 3861198.1 |    163.82614 (19120601)    155.59825 (16021120)    147.18622 (15120519)
   160.85449 (18020819)    160.84495 (18020819)
 3861173.0 |    169.23652 (16021120)    160.57241 (18011823)    163.57547 (18020819)
   172.78009 (18020819)    157.75761 (18020819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 486
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 , L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 , L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 , L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	490503.90	490578.42	490652.94	490727.46	490801.98
3861675.8	83.91365 (18121521)	81.11802 (16022523)	78.55141 (19120601)	75.24519 (19120601)	73.38711 (16021120)
3861650.6	86.39888 (16022523)	81.94714 (19122621)	81.33943 (19120601)	76.89815 (16021120)	75.10049 (16021120)
3861625.5	89.06193 (16022523)	85.05675 (19120601)	82.35648 (19120601)	79.42508 (16021120)	75.28415 (18011823)
3861600.3	91.61973 (16022523)	88.53420 (19120601)	81.40334 (16021120)	80.65295 (16021120)	77.83219 (18011823)
3861575.2	91.58598 (19122621)	89.65755 (19120601)	84.91825 (16021120)	80.54008 (16021120)	78.63773 (18011823)
3861550.1	95.05109 (19120601)	88.43262 (19120601)	86.91535 (16021120)	83.26312 (18011823)	79.20738 (19022404)
3861524.9	97.07518 (19120601)	91.21521 (16021120)	87.20615 (16021120)	84.58804 (18011823)	78.83588 (19022404)
3861499.8	96.82562 (19120601)	93.91231 (16021120)	89.71556 (18011823)	85.19997 (19022404)	88.24506 (18020819)
3861474.6	97.94176 (16021120)	94.54818 (16021120)	91.03459 (18011823)	85.20545 (18020819)	96.98158 (18020819)
3861449.5	102.08084 (16021120)	96.81042 (18011823)	91.70807 (19022404)	96.15584 (18020819)	102.47685 (18020819)
3861424.4	103.08938 (16021120)	98.66425 (18011823)	93.33296 (18020819)	104.73535 (18020819)	105.87294 (18020819)
3861399.2	104.49466 (18011823)	99.20669 (19022404)	104.85201 (18020819)	111.29584 (18020819)	105.72643 (18020819)
3861374.1	106.90157 (18011823)	102.81540 (18020819)	114.32844 (18020819)	114.15696 (18020819)	102.46186 (18020819)

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 3861348.9 |    107.78741 (19022404)    115.57407 (18020819)    120.48580 (18020819)
   112.70686 (18020819)    107.12685 (15011619)
 3861323.8 |    113.62794 (18020819)    125.38745 (18020819)    122.53394 (18020819)
   111.45654 (15011619)    109.64128 (15011619)
 3861298.7 |    128.15461 (18020819)    132.42038 (18020819)    119.89469 (18020819)
   117.72013 (15011619)    112.10822 (18011122)
 3861273.5 |    138.83879 (18020819)    132.93950 (18020819)    123.28341 (15011619)
   118.62598 (18011122)    111.95211 (18011122)
 3861248.4 |    144.62769 (18020819)    131.10242 (15011619)    127.10405 (15011619)
   120.09108 (18011122)    112.20153 (18020124)
 3861223.2 |    145.00203 (18020819)    139.51237 (15011619)    129.20133 (18011122)
   120.08281 (18020124)    113.23689 (19020204)
 3861198.1 |    147.41709 (15011619)    141.33330 (18011122)    129.22360 (18020124)
   120.80391 (19020204)    112.81456 (15123001)
 3861173.0 |    153.19886 (15011619)    142.55151 (18011122)    130.14162 (19020204)
   118.92658 (15123001)    117.46262 (18011721)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***       07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***       01:16:45

                                 PAGE 487
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
                                 INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                  L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                  L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       490876.50
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |     70.10256 (18011823)
 3861650.6 |     72.95682 (18011823)
 3861625.5 |     73.41730 (18011823)
 3861600.3 |     73.75357 (19022404)
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                   INCLUDING SOURCE(S):   L0000204   , L0000205 , L0000206   , L0000207   , L0000208   ,
                                    L0000209   , L0000210   , L0000211   , L0000212   , L0000213 , L0000214   , L0000215   , L0000216   ,
                                    L0000217   , L0000218   , L0000219   , L0000220   , L0000221 , L0000222   , L0000223   , L0000224   ,
                                    L0000225   , L0000226   , L0000227   , L0000228   , L0000229 , L0000230   , L0000231   ,

                                     *** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 491611.20   491641.99   491672.78
      491703.57   491734.36
 - - -

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 3861664.1 |     60.17195 (18011122)     59.27140 (18020124)     58.21663 (18020124)
    56.97381 (18020124)     56.12825 (19020204)
 3861634.6 |     60.52831 (18020124)     59.12037 (18020124)     58.25050 (19020204)
    57.48636 (19020204)     56.32587 (19020204)
 3861605.2 |     60.50342 (19020204)     59.68974 (19020204)     58.33855 (19020204)
    56.72380 (19020204)     55.33678 (19022507)
 3861575.7 |     60.46396 (19020204)     58.73968 (19020204)     57.29184 (19022507)
    56.83472 (15123001)     56.53929 (15123001)
 3861546.3 |     59.45831 (19022507)     59.30682 (15123001)     58.81441 (15123001)
    58.09967 (15123001)     58.00404 (18011721)
 3861516.8 |     61.26325 (15123001)     60.66807 (18011721)     60.61397 (18011721)
    60.19271 (18011721)     59.53971 (18011721)
 3861487.4 |     63.23416 (18011721)     62.75553 (18011721)     61.96817 (18011721)
    60.78253 (18011721)     59.35012 (18011721)
 3861457.9 |     64.23538 (18011721)     62.88050 (18011721)     61.68664 (18011522)
    60.91818 (18011522)     59.92049 (18011522)
 3861428.5 |     64.42249 (18011522)     63.30837 (18011522)     62.14061 (18011522)
    60.70212 (18011522)     59.08052 (18011522)
 3861399.0 |     64.44981 (18011522)     62.62796 (18011522)     60.94972 (16123005)
    59.79282 (16123005)     58.52727 (16123005)
 3861369.6 |     63.28817 (16123005)     61.83208 (16123005)     60.33552 (18120921)
    59.26896 (20120318)     59.14318 (20120318)
 3861340.1 |     62.65366 (20120318)     62.50935 (20120318)     62.15640 (20120318)
    61.60877 (20120318)     60.88138 (20120318)
 3861310.7 |     65.19011 (20120318)     64.31086 (20120318)     63.31208 (20120318)
    62.14994 (20120318)     61.30360 (19020808)
 3861281.2 |     65.83836 (20120318)     64.99635 (19020808)     64.25937 (19020808)
    64.33085 (18120708)     64.15394 (18120708)
 3861251.8 |     68.59914 (18120708)     68.23861 (18120708)     67.68185 (18120708)
    67.07889 (18120708)     66.17260 (18120708)
 3861222.3 |     71.30161 (18120708)     70.19505 (18120708)     68.92742 (18120708)
    67.58571 (18120708)     66.11604 (18120708)
 3861192.9 |     71.46371 (18120708)     69.73651 (18120708)     67.96596 (18120708)
    66.03096 (18120708)     63.89357 (18120708)
 3861163.4 |     69.17056 (18120708)     67.11305 (15020502)     65.80420 (15020502)
    64.15675 (16122023)     63.05297 (16122023)
 3861134.0 |     67.87222 (16122023)     67.02892 (16122023)     66.18496 (15020408)
    65.54048 (15020408)     64.65413 (15020408)
 3861104.5 |     69.65509 (15020408)     68.88997 (15020408)     67.87114 (15020408)
    66.68634 (15020408)     65.35283 (15020408)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 489
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
```

INCLUDING SOURCE(S): L0000204 , L0000205
, L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213
, L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221
, L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229
, L0000230 , L0000231 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	491765.15	491795.94	491826.73	491857.52	491888.31
3861693.5	54.90144 (18020124)	54.07641 (19020204)	53.54299 (19020204)	52.70411 (19020204)	51.40164 (19020204)
3861664.1	55.40782 (19020204)	54.36770 (19020204)	52.99115 (19020204)	51.31834 (19020204)	50.54762 (19022507)
3861634.6	54.70653 (19020204)	53.32410 (19022507)	52.37681 (19022507)	52.11842 (15123001)	51.77242 (15123001)
3861605.2	54.49586 (15123001)	54.42302 (15123001)	53.95097 (15123001)	53.20196 (15123001)	53.20216 (18011721)
3861575.7	55.98053 (15123001)	55.57418 (18011721)	55.44545 (18011721)	55.06012 (18011721)	54.58272 (18011721)
3861546.3	57.79377 (18011721)	57.41586 (18011721)	56.62325 (18011721)	55.70087 (18011721)	54.51603 (18011721)
3861516.8	58.56469 (18011721)	57.40421 (18011721)	56.31807 (18011522)	55.70392 (18011522)	55.04100 (18011522)
3861487.4	58.53190 (18011522)	57.73872 (18011522)	56.74456 (18011522)	55.56982 (18011522)	54.33227 (18011522)
3861457.9	58.66217 (18011522)	57.27699 (18011522)	55.78367 (18011522)	54.73360 (16123005)	53.72009 (16123005)
3861428.5	57.70801 (16123005)	56.65198 (16123005)	55.39749 (16123005)	53.95188 (18120921)	53.25324 (20120318)
3861399.0	57.04823 (18120921)	56.17823 (20120318)	56.01861 (20120318)	55.74204 (20120318)	55.30825 (20120318)
3861369.6	58.88427 (20120318)	58.34371 (20120318)	57.69472 (20120318)	56.89719 (20120318)	56.01415 (20120318)
3861340.1	59.98981 (20120318)	58.95001 (20120318)	58.14578 (19020808)	57.58404 (19020808)	57.29605 (18120708)
3861310.7	60.80460 (19020808)	60.57026 (18120708)	60.54286 (18120708)	60.23569 (18120708)	59.94791 (18120708)
3861281.2	63.79764 (18120708)	63.27383 (18120708)	62.59495 (18120708)		

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    61.83336 (18120708)     60.88174 (18120708)
 3861251.8 |     65.18073 (18120708)     64.05130 (18120708)     62.86080 (18120708)
    61.50015 (18120708)     59.98935 (18120708)
 3861222.3 |     64.47191 (18120708)     62.80047 (18120708)     61.11126 (18120708)
    59.35526 (18120708)     57.90923 (15020502)
 3861192.9 |     62.11060 (15020502)     60.71710 (15020502)     59.42641 (16122023)
    58.72790 (16122023)     57.88919 (16122023)
 3861163.4 |     61.92040 (16122023)     61.02368 (15020408)     60.55868 (15020408)
    60.10035 (15020408)     59.48620 (15020408)
 3861134.0 |     63.72683 (15020408)     63.06430 (15020408)     61.83668 (15020408)
    60.82586 (15020408)     59.63247 (15020408)
 3861104.5 |     63.88737 (15020408)     62.30611 (15020408)     60.85648 (15020408)
    59.41961 (15020408)     57.89079 (15020408)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 490
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
                                   INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                  L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                  L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                    *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       491919.10              491949.89              491980.68
      492011.47              492042.26
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3861693.5 |     49.50297 (19020204)     48.62926 (19022507)     48.08823 (15123001)
    47.98907 (15123001)     47.65615 (15123001)
 3861664.1 |     50.11885 (15123001)     49.92589 (15123001)     49.61666 (15123001)
    49.10264 (18011721)     49.10925 (18011721)
 3861634.6 |     51.25810 (15123001)     51.06058 (18011721)     51.01390 (18011721)
    50.79368 (18011721)     50.32295 (18011721)
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 3861605.2 |     52.99712 (18011721)     52.60973 (18011721)     51.96090 (18011721)
    51.11516 (18011721)     50.17797 (18011721)
 3861575.7 |     53.73282 (18011721)     52.72839 (18011721)     51.72432 (18011522)
    51.18571 (18011522)     50.69618 (18011522)
 3861546.3 |     53.75902 (18011522)     53.11489 (18011522)     52.29814 (18011522)
    51.49979 (18011522)     50.33877 (18011522)
 3861516.8 |     54.05138 (18011522)     52.85657 (18011522)     51.52412 (18011522)
    50.60414 (16123005)     49.82152 (16123005)
 3861487.4 |     52.93773 (16123005)     52.18491 (16123005)     51.16253 (16123005)
    50.07393 (16123005)     48.97205 (16123005)
 3861457.9 |     52.57835 (16123005)     51.24787 (18120921)     50.83113 (20120318)
    50.74744 (20120318)     50.73692 (20120318)
 3861428.5 |     53.20506 (20120318)     53.00480 (20120318)     52.66097 (20120318)
    52.13863 (20120318)     51.70900 (20120318)
 3861399.0 |     54.77597 (20120318)     54.10694 (20120318)     53.26715 (20120318)
    52.31634 (20120318)     52.12337 (19020808)
 3861369.6 |     54.94931 (19020808)     54.72187 (19020808)     54.14766 (19020808)
    54.08199 (18120708)     54.14226 (18120708)
 3861340.1 |     57.06774 (18120708)     57.01502 (18120708)     56.71466 (18120708)
    56.28290 (18120708)     55.88109 (18120708)
 3861310.7 |     59.28966 (18120708)     58.61337 (18120708)     57.86996 (18120708)
    57.01422 (18120708)     56.15911 (18120708)
 3861281.2 |     59.81392 (18120708)     58.64282 (18120708)     57.38109 (18120708)
    56.19626 (18120708)     54.73451 (18120708)
 3861251.8 |     58.51492 (18120708)     56.97138 (18120708)     55.37129 (18120708)
    54.35455 (15020502)     53.16928 (15020502)
 3861222.3 |     56.81137 (15020502)     55.58997 (15020502)     54.87672 (16122023)
    54.09185 (16122023)     53.19494 (16122023)
 3861192.9 |     56.92293 (16122023)     56.51580 (15020408)     56.04449 (15020408)
    55.48696 (15020408)     54.70459 (15020408)
 3861163.4 |     58.72794 (15020408)     57.88966 (15020408)     56.97949 (15020408)
    56.05513 (15020408)     54.87760 (15020408)
 3861134.0 |     58.54344 (15020408)     57.29264 (15020408)     55.94824 (15020408)
    54.62059 (15020408)     53.26477 (15020408)
 3861104.5 |     56.33618 (15020408)     54.76350 (15020408)     54.08334 (19022503)
    53.59645 (19022503)     53.05534 (19022503)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 491
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
                                   INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
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                L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                  *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       492073.05               492103.84              492134.63
      492165.42              492196.21
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 3861693.5 |     46.93842 (15123001)     46.75562 (18011721)     46.65946 (18011721)
    46.38098 (18011721)     45.89135 (18011721)
 3861664.1 |     48.40392 (18011721)     47.97723 (18011721)     47.45439 (18011721)
    46.72346 (18011721)     45.84100 (18011721)
 3861634.6 |     49.49044 (18011721)     48.23840 (18011721)     47.09432 (18011721)
    46.53415 (18011522)     46.23566 (18011522)
 3861605.2 |     49.34838 (18011522)     48.78525 (18011522)     47.91405 (18011522)
    46.83591 (18011522)     45.99652 (18011522)
 3861575.7 |     50.04472 (18011522)     48.75865 (18011522)     47.76177 (18011522)
    46.22662 (18011522)     45.43351 (16123005)
 3861546.3 |     48.93257 (18011522)     48.01692 (16123005)     47.30280 (16123005)
    46.32681 (16123005)     45.26726 (16123005)
 3861516.8 |     48.62695 (16123005)     47.59376 (16123005)     46.35413 (16123005)
    46.16898 (20120318)     46.03214 (20120318)
 3861487.4 |     48.34704 (20120318)     48.23520 (20120318)     48.03949 (20120318)
    47.76530 (20120318)     47.34142 (20120318)
 3861457.9 |     50.09338 (20120318)     49.62380 (20120318)     49.04211 (20120318)
    48.35732 (20120318)     47.57859 (20120318)
 3861428.5 |     50.77802 (20120318)     49.87592 (20120318)     49.38763 (19020808)
    49.05937 (19020808)     48.60510 (18120708)
 3861399.0 |     51.54835 (19020808)     51.23366 (18120708)     51.20760 (18120708)
    51.10924 (18120708)     50.85401 (18120708)
 3861369.6 |     53.73162 (18120708)     53.39643 (18120708)     53.04234 (18120708)
    52.48686 (18120708)     51.87934 (18120708)
 3861340.1 |     55.11144 (18120708)     54.33964 (18120708)     53.47375 (18120708)
    52.52326 (18120708)     51.54275 (18120708)
 3861310.7 |     54.95940 (18120708)     53.83285 (18120708)     52.54285 (18120708)
    51.24430 (18120708)     49.85450 (18120708)
 3861281.2 |     53.22068 (18120708)     51.81853 (15020502)     50.88936 (15020502)
    49.85802 (15020502)     48.81858 (15020502)
 3861251.8 |     52.02153 (15020502)     51.34202 (16122023)     50.64853 (16122023)
    49.89601 (16122023)     49.25992 (15020408)
 3861222.3 |     52.71039 (15020408)     52.32284 (15020408)     51.81345 (15020408)
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)
492227.00	
3861693.5	45.31987 (18011721)
3861664.1	45.16443 (18011522)
3861634.6	45.53099 (18011522)
3861605.2	44.93146 (18011522)
3861575.7	44.71095 (16123005)
3861546.3	44.02722 (18120921)
3861516.8	45.85712 (20120318)
3861487.4	46.81489 (20120318)
3861457.9	47.09923 (19020808)
3861428.5	48.62928 (18120708)
3861399.0	50.53752 (18120708)

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488802.97	3861310.09	159.72402	(16012202)	488863.58	3861309.29	161.54947	(16120421)
488847.63	3861279.78	165.30843	(16010123)	488850.82	3861262.24	170.53429	(16012202)
488810.14	3861261.44	167.84230	(19011604)	488810.94	3861289.36	164.00366	(16012202)
488819.72	3861306.90	158.27435	(16012202)	488816.53	3861235.92	171.29668	(19011604)
488841.25	3861126.66	210.32033	(16021019)	488879.53	3861121.88	219.31540	(20112808)
488913.82	3861121.08	214.84404	(20112808)	488925.79			

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3861092.37      236.98308  (20112808)
        488920.03   3861067.49      253.07287  (20112808)                488996.74
3861113.92      228.69890  (16010123)
        488974.03   3861097.77      241.88504  (16012202)                488931.63
3860976.64      282.27216  (15010318)
        488935.67   3861034.68      266.83201  (16122818)                488959.90
3861061.43      262.29188  (20112808)
        489165.81   3861208.80      197.44469  (18011624)                489317.74
3861109.28      241.28875  (18010720)
        489385.87   3861014.75      269.06004  (18092521)                489372.24
3861112.69      227.45991  (16111921)
        489420.79   3861106.73      243.06441  (15010420)                489436.12
3861037.74      262.66552  (15010420)
        489488.07   3861036.89      272.65886  (16020722)                489473.59
3861110.99      240.79952  (19010903)
        489431.01   3861167.20      224.74252  (15010420)                489662.66
3860915.95      373.10863  (16122308)
        489644.78   3861076.07      250.06702  (16122718)                489659.26
3861099.06      239.55815  (16122718)
        489735.91   3861020.71      290.60388  (16122308)                489700.14
3861029.23      277.66278  (19022504)
        489708.65   3861062.44      264.83457  (20022002)                489779.34
3861099.06      242.54386  (16122308)
        489835.95   3859138.59      120.52869  (15112019)                489885.95
3859138.59      120.03501  (16010405)
        489935.95   3859138.59      125.13291  (16010405)                489985.95
3859138.59      115.63657  (16122521)
        490035.95   3859138.59      114.59773  (16122521)                490085.95
3859138.59      117.43188  (15121808)
        490135.95   3859138.59      129.22199  (15121808)                490185.95
3859138.59      120.11230  (15121808)
        490235.95   3859138.59      103.64059  (19010405)                490285.95
3859138.59      100.35633  (20121324)
        490335.95   3859138.59      102.06459  (20121324)                490385.95
3859138.59       88.05590  (20121324)
        490435.95   3859138.59       76.44428  (15020404)                490485.95
3859138.59       69.68990  (15013024)
        490535.95   3859138.59       62.38482  (15013024)                490585.95
3859138.59       51.32193  (15013024)
        490635.95   3859138.59       49.73236  (18040818)                490685.95
3859138.59       46.73577  (18040818)
        490735.95   3859138.59       38.37793  (15122108)                490785.95
3859138.59       35.70460  (19102907)
        490835.95   3859138.59       34.06366  (15031607)                490885.95
3859138.59       30.49596  (15031607)
        489835.95   3859188.59      121.25199  (15112019)                489885.95
3859188.59      128.46967  (16010405)
        489935.95   3859188.59      126.77556  (16010405)                489985.95
3859188.59      122.71620  (16122521)
        490035.95   3859188.59      121.70687  (20011520)                490085.95
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3859188.59   134.01191 (15121808)
        490135.95   3859188.59   133.71241 (15121808)   490185.95
3859188.59   113.48383 (15121808)
        490235.95   3859188.59   102.70433 (19010405)   490285.95
3859188.59   109.35896 (20121324)
        490335.95   3859188.59   105.31643 (20121324)   490385.95
3859188.59   87.36370 (15020404)
        490435.95   3859188.59   80.19978 (15020404)   490485.95
3859188.59   72.73170 (15013024)
        490535.95   3859188.59   61.67550 (15013024)   490585.95
3859188.59   54.92003 (18040818)
        490635.95   3859188.59   51.84987 (18040818)   490685.95
3859188.59   40.68008 (18040818)
        490735.95   3859188.59   35.12633 (19102907)   490785.95
3859188.59   34.06753 (15031607)
        490835.95   3859188.59   33.55345 (15031607)   490885.95
3859188.59   30.66260 (19091124)
        489835.95   3859238.59   125.66624 (18012320)   489885.95
3859238.59   135.28679 (16010405)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                 INCLUDING SOURCE(S):   L0000204   , L0000205 , L0000206   , L0000207   , L0000208   ,
                L0000209   , L0000210   , L0000211   , L0000212   , L0000213 , L0000214   , L0000215   , L0000216   ,
                L0000217   , L0000218   , L0000219   , L0000220   , L0000221 , L0000222   , L0000223   , L0000224   ,
                L0000225   , L0000226   , L0000227   , L0000228   , L0000229 , L0000230   , L0000231   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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        490035.95   3859238.59      128.35160  (15121808)              490085.95
3859238.59      142.62039  (15121808)
        490135.95   3859238.59      133.01087  (15121808)              490185.95
3859238.59      115.58358  (19010405)
        490235.95   3859238.59      114.39858  (20121324)              490285.95
3859238.59      115.26850  (20121324)
        490335.95   3859238.59      101.13770  (20121324)              490385.95
3859238.59       94.94553  (15020404)
        490435.95   3859238.59       91.92938  (15013024)              490485.95
3859238.59       82.42307  (15013024)
        490535.95   3859238.59       68.07286  (16010120)              490585.95
3859238.59       60.11116  (16010120)
        490635.95   3859238.59       51.92642  (19111222)              490685.95
3859238.59       49.01232  (19111222)
        490735.95   3859238.59       41.71906  (15031607)              490785.95
3859238.59       40.05213  (15031607)
        490835.95   3859238.59       37.36342  (19091124)              490885.95
3859238.59       33.04862  (19091124)
        489835.95   3859288.59      134.45759  (16010405)              489885.95
3859288.59      139.59546  (16010405)
        489935.95   3859288.59      132.65449  (16122521)              489985.95
3859288.59      128.48800  (20011520)
        490035.95   3859288.59      142.93853  (15121808)              490085.95
3859288.59      145.57609  (15121808)
        490135.95   3859288.59      125.94775  (15121808)              490185.95
3859288.59      115.93722  (19010405)
        490235.95   3859288.59      124.30209  (20121324)              490285.95
3859288.59      117.47919  (20121324)
        490335.95   3859288.59      108.38968  (15020404)              490385.95
3859288.59      102.36696  (15013024)
        490435.95   3859288.59       93.65445  (15013024)              490485.95
3859288.59       83.01537  (16010120)
        490535.95   3859288.59       88.21635  (16010120)              490585.95
3859288.59       73.30919  (19111222)
        490635.95   3859288.59       70.52240  (19111222)              490685.95
3859288.59       58.28600  (19111222)
        490735.95   3859288.59       49.16485  (16080704)              490785.95
3859288.59       45.11952  (19091124)
        490835.95   3859288.59       41.56898  (16011020)              490885.95
3859288.59       39.48929  (15101221)
        489835.95   3859338.59      144.63657  (16010405)              489885.95
3859338.59      141.80937  (16010405)
        489935.95   3859338.59      139.04256  (16122521)              489985.95
3859338.59      139.77509  (15121808)
        490035.95   3859338.59      154.63833  (15121808)              490085.95
3859338.59      145.27720  (15121808)
        490135.95   3859338.59      126.63190  (19010405)              490185.95
3859338.59      128.92985  (20121324)
        490235.95   3859338.59      129.15153  (20121324)              490285.95
3859338.59      122.76982  (15020404)
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490635.95	3859388.59	92.39199	(20022004)	490685.95	3859388.59	78.15797	(20120808)
490735.95	3859388.59	59.80914	(20120808)	490785.95	3859388.59	59.80313	(20091005)
490835.95	3859388.59	61.32443	(19011623)	490885.95	3859388.59	58.06147	(19122324)
489835.95	3859438.59	157.54360	(16010405)	489885.95	3859438.59	153.57688	(16122521)
489935.95	3859438.59	154.27188	(15121808)	489985.95	3859438.59	170.20200	(15121808)
490035.95	3859438.59	158.80483	(15121808)	490085.95	3859438.59	138.61564	(19010405)
490135.95	3859438.59	140.96127	(20121324)	490185.95	3859438.59	137.41289	(20121324)
490235.95	3859438.59	144.60501	(15020404)	490285.95	3859438.59	142.10055	(15013024)
490335.95	3859438.59	137.99042	(15013024)	490385.95	3859438.59	133.67739	(16010120)
490435.95	3859438.59	129.43297	(16010120)	490485.95	3859438.59	123.07410	(19111222)
490535.95	3859438.59	111.45065	(19111222)	490585.95	3859438.59	112.34964	(20022004)
490635.95	3859438.59	106.53597	(20120808)	490685.95	3859438.59	91.07732	(20120808)
490735.95	3859438.59	85.05262	(19120107)	490785.95	3859438.59	75.22798	(19011623)
490835.95	3859438.59	72.64582	(19122324)	490885.95	3859438.59	70.58391	(18031023)
490085.95	3859488.59	142.71472	(20121324)	490135.95	3859488.59	145.60218	(20121324)
490185.95	3859488.59	151.34692	(15020404)	490235.95	3859488.59	148.45275	(15020404)
490285.95	3859488.59	148.59793	(15013024)	490335.95	3859488.59	142.26518	(16010120)
490385.95	3859488.59	141.38704	(16010120)	490435.95	3859488.59	133.76141	(19111222)
490485.95	3859488.59	123.63022	(19111222)	490535.95	3859488.59	128.89849	(20022004)
490585.95	3859488.59	126.03935	(20120808)	490635.95	3859488.59	113.79359	(20120808)
490685.95	3859488.59	108.06176	(19120107)	490735.95	3859488.59	95.62464	(19011623)
490785.95	3859488.59	88.87526	(19122324)	490835.95			

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3859488.59       83.49495  (18031023)
        490885.95   3859488.59       76.52518  (16092619)                490085.95
3859538.59      151.65635  (20121324)
        490135.95   3859538.59      154.63042  (15020404)                490185.95
3859538.59      158.87104  (15020404)
        490235.95   3859538.59      155.29295  (15013024)                490285.95
3859538.59      147.17147  (16010120)
        490335.95   3859538.59      150.30459  (16010120)                490385.95
3859538.59      145.15256  (15020520)
        490435.95   3859538.59      134.34415  (15020520)                490485.95
3859538.59      142.06017  (20022004)
        490535.95   3859538.59      143.25225  (20120808)                490585.95
3859538.59      130.20384  (20120808)
        490635.95   3859538.59      124.66107  (19120107)                490685.95
3859538.59      113.72200  (19122324)
        490735.95   3859538.59      105.66878  (19122324)                490785.95
3859538.59       96.01211  (18031023)
        490835.95   3859538.59       88.68161  (20112919)                490885.95
3859538.59       85.48757  (18011120)
        490135.95   3859588.59      166.73146  (15020404)                490185.95
3859588.59      162.37706  (15013024)
        490235.95   3859588.59      152.08361  (15013024)                490285.95
3859588.59      155.39059  (16010120)
        490335.95   3859588.59      153.78218  (15020520)                490385.95
3859588.59      145.30189  (15020520)
        490435.95   3859588.59      152.26116  (20022004)                490485.95
3859588.59      156.41802  (20120808)
        490535.95   3859588.59      143.39148  (20120808)                490585.95
3859588.59      138.22319  (19120107)
        490635.95   3859588.59      128.79448  (19122324)                490685.95
3859588.59      120.18850  (19122324)
        490735.95   3859588.59      107.29765  (18031023)                490785.95
3859588.59      100.86723  (20112919)
        490835.95   3859588.59      105.74717  (18011120)                490885.95
3859588.59      104.40956  (18011120)
        490135.95   3859638.59      172.09246  (15013024)                490185.95
3859638.59      154.63297  (15013024)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
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                                   PAGE 496
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
                                   INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                 L0000209    , L0000210    , L0000211    , L0000212    , L0000213
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, L0000214    , L0000215    , L0000216    ,
                L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        490235.95   3859638.59      162.52708  (16010120)               490285.95
3859638.59      158.85592  (15020520)
        490335.95   3859638.59      153.26516  (15020520)               490385.95
3859638.59      159.38325  (20120808)
        490435.95   3859638.59      165.37449  (20120808)               490485.95
3859638.59      152.59998  (20120808)
        490535.95   3859638.59      147.66473  (19120107)               490585.95
3859638.59      142.32252  (19122324)
        490635.95   3859638.59      130.47189  (19122324)               490685.95
3859638.59      117.67850  (16092619)
        490735.95   3859638.59      116.31408  (18011120)               490785.95
3859638.59      121.71258  (18011120)
        490835.95   3859638.59      119.06940  (18011120)               490885.95
3859638.59      108.78946  (16120720)
        490135.95   3859688.59      166.53921  (15013024)               490185.95
3859688.59      164.96496  (16010120)
        490235.95   3859688.59      165.97810  (15020520)               490285.95
3859688.59      163.94002  (15020520)
        490335.95   3859688.59      167.78891  (20120808)               490385.95
3859688.59      167.45173  (20120808)
        490435.95   3859688.59      159.01726  (19120107)               490485.95
3859688.59      153.77694  (19120107)
        490535.95   3859688.59      151.14418  (19122324)               490585.95
3859688.59      137.78346  (19122324)
        490635.95   3859688.59      127.37112  (20112919)               490685.95
3859688.59      132.57966  (18011120)
        490735.95   3859688.59      135.23247  (18011120)               490785.95
3859688.59      128.16879  (18011120)
        490835.95   3859688.59      124.11876  (16120720)               490885.95
3859688.59      122.19080  (16122021)
        490085.95   3859738.59      183.96522  (15013024)               490135.95
3859738.59      174.43113  (16010120)
        490185.95   3859738.59      171.77057  (15020520)               490235.95
3859738.59      154.80817  (15020520)
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        490285.95   3859738.59      173.81721  (20120808)                490335.95
3859738.59      165.27885  (20120808)
        490385.95   3859738.59      167.86970  (19120107)                490435.95
3859738.59      158.52166  (19120107)
        490485.95   3859738.59      158.00095  (19122324)                490535.95
3859738.59      141.39303  (18031023)
        490585.95   3859738.59      137.02698  (20122020)                490635.95
3859738.59      144.96923  (18011120)
        490685.95   3859738.59      145.16007  (18011120)                490735.95
3859738.59      139.58667  (19020802)
        490785.95   3859738.59      138.11547  (16120720)                490835.95
3859738.59      134.95058  (19120108)
        490885.95   3859738.59      146.53230  (19120108)                490085.95
3859788.59      189.67942  (16010120)
        490135.95   3859788.59      184.79075  (15020520)                490185.95
3859788.59      174.38313  (15020520)
        490235.95   3859788.59      174.56408  (20120808)                490285.95
3859788.59      169.61904  (20120808)
        490335.95   3859788.59      153.17485  (19120107)                490385.95
3859788.59      147.15140  (19122324)
        490435.95   3859788.59      147.34635  (19122324)                490485.95
3859788.59      137.32294  (16092619)
        490535.95   3859788.59      148.28568  (20122020)                490585.95
3859788.59      149.67338  (18011120)
        490635.95   3859788.59      152.66479  (19020802)                490685.95
3859788.59      150.95826  (16120720)
        490735.95   3859788.59      146.49116  (19120108)                490785.95
3859788.59      161.46703  (19120108)
        490835.95   3859788.59      166.18867  (19120108)                490885.95
3859788.59      157.54312  (19120108)
        490085.95   3859838.59      196.99480  (15020520)                490135.95
3859838.59      189.98263  (15020520)
        490185.95   3859838.59      190.40928  (20120808)                490235.95
3859838.59      184.40006  (20120808)
        490285.95   3859838.59      165.51705  (19120107)                490335.95
3859838.59      157.16589  (19122324)
        490385.95   3859838.59      147.40626  (19122324)                490435.95
3859838.59      137.91868  (20122020)
        490485.95   3859838.59      141.41898  (20122020)                490535.95
3859838.59      152.26992  (19020802)
        490585.95   3859838.59      157.64910  (19020802)                490635.95
3859838.59      154.97109  (20122119)
        490685.95   3859838.59      168.32000  (19120108)                490735.95
3859838.59      178.90006  (19120108)
        490785.95   3859838.59      177.47894  (19120108)                490835.95
3859838.59      164.81150  (19120108)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490885.95	3859838.59	153.03944	(19120708)	490085.95	3859888.59	205.67918	(15020520)
490135.95	3859888.59	202.19135	(20120808)	490185.95	3859888.59	198.03460	(20120808)
490235.95	3859888.59	179.04890	(19120107)	490285.95	3859888.59	170.26239	(19122324)
490335.95	3859888.59	154.73211	(19122324)	490385.95	3859888.59	144.21411	(20122020)
490435.95	3859888.59	143.91464	(20122020)	490485.95	3859888.59	141.23805	(15121821)
490535.95	3859888.59	145.64820	(15012223)	490585.95	3859888.59	169.81526	(19120108)
490635.95	3859888.59	182.88656	(19120108)	490685.95	3859888.59	186.58944	(19120108)
490735.95	3859888.59	176.95017	(19120108)	490785.95	3859888.59	167.27128	(19120708)
490835.95	3859888.59	150.78276	(19120708)	490885.95	3859888.59	145.81947	(15121006)
490135.95	3859938.59	212.02604	(20120808)	490185.95	3859938.59	191.30068	(19120107)
490235.95	3859938.59	184.34832	(19122324)	490285.95	3859938.59	163.87501	(19122324)
490335.95	3859938.59	158.79224	(20122020)	490385.95	3859938.59	156.04550	(19121704)
490435.95	3859938.59	152.98282	(15121821)	490485.95			

3859938.59 150.25256 (20122808)
490535.95 3859938.59 155.66616 (19120108) 490585.95
3859938.59 170.91256 (19120108)
490635.95 3859938.59 167.58269 (19120708) 490685.95
3859938.59 182.80681 (19120708)
490735.95 3859938.59 166.06792 (19120708) 490785.95
3859938.59 156.35006 (15121006)
490835.95 3859938.59 159.61236 (16010208) 490885.95
3859938.59 142.54611 (16010208)
490135.95 3859988.59 206.43299 (19120107) 490185.95
3859988.59 199.38882 (19122324)
490235.95 3859988.59 179.19839 (20122020) 490285.95
3859988.59 178.18570 (20122020)
490335.95 3859988.59 169.74351 (15121821) 490385.95
3859988.59 165.88678 (15012223)
490435.95 3859988.59 170.14389 (19120108) 490485.95
3859988.59 173.56129 (19120108)
490535.95 3859988.59 171.49596 (19120708) 490585.95
3859988.59 165.01256 (19120708)
490635.95 3859988.59 155.49749 (19120708) 490685.95
3859988.59 161.02148 (16010208)
490735.95 3859988.59 165.62037 (16010208) 490785.95
3859988.59 160.69331 (16010208)
490835.95 3859988.59 148.32586 (16010208) 490885.95
3859988.59 126.77749 (18120308)
490135.95 3860038.59 214.24943 (19122324) 490185.95
3860038.59 197.17433 (20122020)
490235.95 3860038.59 193.22235 (19121704) 490285.95
3860038.59 186.16186 (15121821)
490335.95 3860038.59 184.27521 (19120108) 490385.95
3860038.59 192.62213 (19120108)
490435.95 3860038.59 190.92604 (19120708) 490485.95
3860038.59 185.80460 (19120708)
490535.95 3860038.59 171.42174 (19120708) 490585.95
3860038.59 155.97319 (15121006)
490635.95 3860038.59 154.65689 (16010208) 490685.95
3860038.59 149.43397 (16010208)
490735.95 3860038.59 146.50232 (18120308) 490785.95
3860038.59 137.44050 (18120308)
490835.95 3860038.59 132.33378 (18121507) 490885.95
3860038.59 120.15041 (18121507)
490135.95 3860088.59 219.98990 (20122020) 490185.95
3860088.59 220.45745 (15121821)
490235.95 3860088.59 211.57701 (19120108) 490285.95
3860088.59 213.53467 (19120108)
490335.95 3860088.59 213.82340 (19120108) 490385.95
3860088.59 209.84256 (19120708)
490435.95 3860088.59 194.67883 (19120708) 490485.95
3860088.59 175.29920 (15121006)
490535.95 3860088.59 173.65657 (16010208) 490585.95

3860088.59   166.76170 (16010208)
        490635.95   3860088.59   155.74965 (18120308)   490685.95
3860088.59   144.64468 (18120308)
        490735.95   3860088.59   138.77108 (18121507)   490785.95
3860088.59   133.69274 (18011822)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                    INCLUDING SOURCE(S):   L0000204   , L0000205 , L0000206   , L0000207   , L0000208   ,
                 L0000209   , L0000210   , L0000211   , L0000212   , L0000213 , L0000214   , L0000215   , L0000216   ,
                 L0000217   , L0000218   , L0000219   , L0000220   , L0000221 , L0000222   , L0000223   , L0000224   ,
                 L0000225   , L0000226   , L0000227   , L0000228   , L0000229 , L0000230   , L0000231   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                            ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        490835.95   3860088.59   128.42649 (18011822)   490885.95
3860088.59   122.15668 (15010721)
        490135.95   3860138.59   234.10582 (15121821)   490185.95
3860138.59   245.78062 (19120108)
        490235.95   3860138.59   243.01873 (19120108)   490285.95
3860138.59   238.63169 (19120708)
        490335.95   3860138.59   222.85054 (19120708)   490385.95
3860138.59   198.54995 (15121006)
        490435.95   3860138.59   196.71682 (16010208)   490485.95
3860138.59   187.24759 (16010208)
        490535.95   3860138.59   173.82433 (18120308)   490585.95
3860138.59   160.84726 (18121507)
        490635.95   3860138.59   154.46659 (18011822)   490685.95
3860138.59   149.23673 (18011822)
        490735.95   3860138.59   140.79406 (18011822)   490785.95
3860138.59   137.72399 (15010721)

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        490835.95   3860138.59      132.85945  (15010721)              490885.95
3860138.59      125.74604  (15010721)
        490935.95   3860138.59      118.59649  (20122520)              490985.95
3860138.59      115.65070  (20122520)
        491035.95   3860138.59      111.06159  (20122520)              490135.95
3860188.59      277.75072  (19120108)
        490185.95   3860188.59      273.68678  (19120708)              490235.95
3860188.59      258.22678  (19120708)
        490285.95   3860188.59      227.56357  (15121006)              490335.95
3860188.59      225.00736  (16010208)
        490385.95   3860188.59      212.08337  (16010208)              490435.95
3860188.59      195.16210  (18120308)
        490485.95   3860188.59      182.73025  (18121507)              490535.95
3860188.59      175.42948  (18011822)
        490585.95   3860188.59      166.22205  (18011822)              490635.95
3860188.59      159.79956  (15010721)
        490685.95   3860188.59      154.00476  (15010721)              490735.95
3860188.59      145.04332  (15010721)
        490785.95   3860188.59      136.88598  (20122520)              490835.95
3860188.59      132.67549  (20122520)
        490885.95   3860188.59      125.94202  (20122520)              490935.95
3860188.59      119.64415  (15021320)
        490985.95   3860188.59      117.30089  (15021320)              491035.95
3860188.59      113.32944  (15021320)
        491085.95   3860188.59      108.03667  (15021320)              491135.95
3860188.59      102.44731  (15021320)
        490135.95   3860238.59      303.90188  (19120708)              490185.95
3860238.59      266.27343  (19120708)
        490235.95   3860238.59      260.64264  (16010208)              490285.95
3860238.59      242.46621  (16010208)
        490335.95   3860238.59      220.32246  (18120308)              490385.95
3860238.59      209.07524  (18011822)
        490435.95   3860238.59      199.65418  (18011822)              490485.95
3860238.59      188.88526  (15010721)
        490535.95   3860238.59      181.87642  (15010721)              490585.95
3860238.59      170.69699  (15010721)
        490635.95   3860238.59      160.46866  (20122520)              490685.95
3860238.59      154.03125  (20122520)
        490735.95   3860238.59      144.80586  (20122520)              490785.95
3860238.59      140.28378  (15021320)
        490835.95   3860238.59      135.74155  (15021320)              490885.95
3860238.59      129.56476  (15021320)
        490935.95   3860238.59      122.12250  (15021320)              490985.95
3860238.59      118.87485  (20012419)
        491035.95   3860238.59      115.25786  (20012419)              491085.95
3860238.59      110.50196  (20012419)
        491135.95   3860238.59      105.60834  (20012419)              490135.95
3860288.59      307.68033  (16010208)
        490185.95   3860288.59      281.08234  (16010208)              490235.95
3860288.59      255.94634  (18121507)
```

490285.95 3860288.59 244.22873 (18011822) 490335.95 3860288.59 227.68851 (15010721)
490385.95 3860288.59 219.48607 (15010721) 490435.95 3860288.59 204.94788 (15010721)
490485.95 3860288.59 191.87116 (20122520) 490535.95 3860288.59 181.98086 (20122520)
490585.95 3860288.59 170.97434 (15021320) 490635.95 3860288.59 165.95425 (15021320)
490685.95 3860288.59 158.32333 (15021320) 490735.95 3860288.59 148.66775 (15021320)
490785.95 3860288.59 143.34605 (20012419) 490835.95 3860288.59 138.29515 (20012419)
490885.95 3860288.59 132.36121 (20012419) 490935.95 3860288.59 125.35490 (20012419)
*** AERMOD - VERSION 23132 *** *** C:\Users\dlarocca\Desktop\Lakes Files\15054 Lennwood\Lennwood\Lennwo *** 07/17/24
*** AERMET - VERSION 19191 *** *** 01:16:45

PAGE 499
*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
INCLUDING SOURCE(S): L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- - - -

3860338.59 234.71392 (20122520)
490385.95 3860338.59 219.55688 (20122520) 490435.95
3860338.59 209.33825 (15021320)
490485.95 3860338.59 199.41106 (15021320) 490535.95
3860338.59 186.24785 (15021320)
490585.95 3860338.59 178.00947 (20012419) 490635.95
3860338.59 170.45580 (20012419)
490685.95 3860338.59 161.46853 (20012419) 490735.95
3860338.59 152.89689 (18011319)
490785.95 3860338.59 145.93060 (18011319) 490835.95
3860338.59 138.41435 (19013107)
490885.95 3860338.59 132.41187 (19013107) 490935.95
3860338.59 125.84867 (19013107)
490985.95 3860338.59 121.01174 (15012208) 491035.95
3860338.59 116.19986 (15012208)
491085.95 3860338.59 110.97217 (15012208) 490135.95
3860388.59 322.13029 (15010721)
490185.95 3860388.59 296.05859 (20122520) 490235.95
3860388.59 273.50836 (15021320)
490285.95 3860388.59 261.18238 (15021320) 490335.95
3860388.59 242.54996 (15021320)
490385.95 3860388.59 229.76877 (20012419) 490435.95
3860388.59 217.65030 (20012419)
490485.95 3860388.59 203.38064 (20012419) 490535.95
3860388.59 191.83194 (18011319)
490585.95 3860388.59 180.53637 (19013107) 490635.95
3860388.59 171.13404 (19013107)
490685.95 3860388.59 162.07037 (15012208) 490735.95
3860388.59 154.70943 (15012208)
490785.95 3860388.59 146.89352 (15012208) 490835.95
3860388.59 138.92290 (15012208)
490135.95 3860438.59 333.91821 (15021320) 490185.95
3860438.59 312.03553 (20012419)
490235.95 3860438.59 290.63330 (20012419) 490285.95
3860438.59 268.57736 (18011319)
490335.95 3860438.59 249.41959 (19013107) 490385.95
3860438.59 233.70009 (19013107)
490435.95 3860438.59 219.48666 (15012208) 490485.95
3860438.59 206.35859 (15012208)
490535.95 3860438.59 192.72367 (16020401) 490585.95
3860438.59 182.26125 (16020401)
490635.95 3860438.59 172.16598 (20122021) 490685.95
3860438.59 164.15373 (20122021)
490735.95 3860438.59 156.19068 (20122021) 490785.95
3860438.59 147.94334 (20122021)
490835.95 3860438.59 140.32971 (20122021) 490135.95
3860488.59 346.35866 (19013107)
490185.95 3860488.59 319.81363 (15012208) 490235.95
3860488.59 293.09003 (16020401)
490285.95 3860488.59 272.24563 (16020401) 490335.95

3860488.59   254.77052 (20122021)
        490385.95   3860488.59   238.22640 (20122021)   490435.95
3860488.59   222.28743 (20122021)
        490485.95   3860488.59   206.31216 (20122021)   490535.95
3860488.59   190.99220 (20122021)
        490585.95   3860488.59   180.90715 (20120821)   490635.95
3860488.59   171.89473 (20120821)
        490685.95   3860488.59   162.67316 (20120821)   490735.95
3860488.59   154.26082 (20120821)
        490785.95   3860488.59   146.11559 (20120821)   490135.95
3860538.59   347.37302 (20120821)
        490185.95   3860538.59   321.57000 (20120821)   490235.95
3860538.59   295.98387 (20120821)
        490285.95   3860538.59   272.44139 (20120821)   490335.95
3860538.59   251.05308 (20120821)
        490385.95   3860538.59   236.56393 (15021823)   490435.95
3860538.59   223.08115 (15021823)
        490485.95   3860538.59   210.47738 (15021823)   490535.95
3860538.59   199.36324 (15021823)
        490585.95   3860538.59   186.57538 (15021823)   490635.95
3860538.59   175.70126 (15021823)
        490685.95   3860538.59   166.02759 (15021823)   490735.95
3860538.59   156.81510 (15021823)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING3 ***
                                    INCLUDING SOURCE(S):   L0000204   , L0000205 , L0000206   , L0000207   , L0000208   ,
                 L0000209   , L0000210   , L0000211   , L0000212   , L0000213 , L0000214   , L0000215   , L0000216   ,
                 L0000217   , L0000218   , L0000219   , L0000220   , L0000221 , L0000222   , L0000223   , L0000224   ,
                 L0000225   , L0000226   , L0000227   , L0000228   , L0000229 , L0000230   , L0000231   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)

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        490385.95   3860738.59      252.71081  (20120308)               490435.95
3860738.59      241.70594  (20120308)
        490485.95   3860738.59      226.62791  (20120308)               490535.95
3860738.59      210.34861  (20120308)
        490585.95   3860738.59      197.42127  (20120308)               490635.95
3860738.59      185.93938  (20120308)
        490685.95   3860738.59      176.05938  (20120308)               490735.95
3860738.59      166.54330  (20120308)
        490785.95   3860738.59      157.84286  (20120308)               490135.95
3860788.59      316.55234  (18120708)
        490185.95   3860788.59      297.66898  (15020408)               490235.95
3860788.59      275.74105  (15020408)
        490285.95   3860788.59      251.69338  (15020408)               490335.95
3860788.59      230.70961  (19022503)
        490385.95   3860788.59      218.05093  (19022503)               490435.95
3860788.59      205.10803  (16120801)
        490485.95   3860788.59      195.66421  (18120821)               490535.95
3860788.59      185.58938  (18120821)
        490585.95   3860788.59      176.03114  (20120308)               490635.95
3860788.59      170.62205  (20120308)
        490685.95   3860788.59      165.69911  (20120308)               490735.95
3860788.59      161.16819  (20120308)
        490785.95   3860788.59      155.24645  (20120308)               489985.95
3860838.59      369.01736  (18022523)
        490035.95   3860838.59      344.12468  (18011522)               490085.95
3860838.59      316.81422  (20120318)
        490135.95   3860838.59      301.93092  (18120708)               490185.95
3860838.59      293.55324  (18120708)
        490235.95   3860838.59      276.54171  (18120708)               490285.95
3860838.59      255.16118  (18120708)
        490335.95   3860838.59      229.29705  (18120708)               490385.95
3860838.59      216.39930  (15020408)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 501
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING3 ***
                                   INCLUDING SOURCE(S):     L0000204    , L0000205
, L0000206    , L0000207    , L0000208    ,
                  L0000209    , L0000210    , L0000211    , L0000212    , L0000213
, L0000214    , L0000215    , L0000216    ,
                  L0000217    , L0000218    , L0000219    , L0000220    , L0000221
, L0000222    , L0000223    , L0000224    ,
                  L0000225    , L0000226    , L0000227    , L0000228    , L0000229
, L0000230    , L0000231    ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490435.95	3860838.59	206.81643	(15020408)	490485.95	3860838.59	194.43641	(15020408)
490535.95	3860838.59	180.08908	(15020408)	490585.95	3860838.59	165.84542	(19022503)
490635.95	3860838.59	157.36558	(19022503)	490685.95	3860838.59	149.24609	(19022503)
490735.95	3860838.59	142.95580	(16120801)	490785.95	3860838.59	136.80530	(16120801)
490835.95	3860838.59	131.82143	(18120821)	489835.95	3860888.59	376.80579	(18020819)
489885.95	3860888.59	387.15926	(18020819)	489935.95	3860888.59	365.18177	(15011619)
489985.95	3860888.59	344.01137	(18011122)	490035.95	3860888.59	312.91424	(19020204)
490085.95	3860888.59	302.51477	(18022523)	490135.95	3860888.59	286.04826	(18011522)
490185.95	3860888.59	265.19426	(18011522)	490235.95	3860888.59	244.34938	(20120318)
490285.95	3860888.59	233.77273	(20120318)	490335.95	3860888.59	226.49736	(18120708)
490385.95	3860888.59	220.01864	(18120708)	490435.95	3860888.59	209.22731	(18120708)
490485.95	3860888.59	194.39476	(18120708)	490535.95	3860888.59	177.47912	(18120708)
490585.95	3860888.59	166.63108	(15020408)	490635.95	3860888.59	159.92620	(15020408)
490685.95	3860888.59	152.33807	(15020408)	490735.95	3860888.59	144.00987	(15020408)
490785.95	3860888.59	134.73046	(15020408)	490835.95	3860888.59	125.82864	(15020408)
490885.95	3860888.59	122.28287	(19022503)	490935.95	3860888.59	117.50610	(19022503)
489835.95	3860938.59	315.07333	(16021120)	489885.95	3860938.59	297.54108	(15120519)
489935.95	3860938.59	325.96576	(18020819)	489985.95	3860938.59	319.25435	(18020819)
490035.95	3860938.59	302.84189	(15011619)	490085.95	3860938.59	285.39149	(18011122)
490135.95	3860938.59	259.25499	(19020204)	490185.95			

3860938.59   243.62737 (18022523)
        490235.95   3860938.59   238.43642 (18022523)   490285.95
3860938.59   225.66912 (18011522)
        490335.95   3860938.59   208.90851 (18011522)   490385.95
3860938.59   195.49095 (20120318)
        490435.95   3860938.59   189.92991 (20120318)   490485.95
3860938.59   182.56342 (18120708)
        490535.95   3860938.59   179.65682 (18120708)   490585.95
3860938.59   172.51692 (18120708)
        490635.95   3860938.59   162.92149 (18120708)   490685.95
3860938.59   152.00627 (18120708)
        490735.95   3860938.59   140.19421 (18120708)   490785.95
3860938.59   132.29010 (16122023)
        490835.95   3860938.59   129.08078 (15020408)   490885.95
3860938.59   125.52164 (15020408)
        490935.95   3860938.59   120.24804 (15020408)   489835.95
3860988.59   282.39261 (16021119)
        489885.95   3860988.59   272.06851 (16021120)   489935.95
3860988.59   258.92007 (18011823)
        489985.95   3860988.59   265.97792 (18020819)   490035.95
3860988.59   281.39597 (18020819)
        490085.95   3860988.59   266.00704 (18020819)   490135.95
3860988.59   254.55954 (15011619)
        490185.95   3860988.59   241.77747 (18011122)   490235.95
3860988.59   220.73465 (19020204)
        490285.95   3860988.59   204.62707 (19020204)   490335.95
3860988.59   201.27493 (18022523)
        490385.95   3860988.59   193.64395 (18011721)   490435.95
3860988.59   185.21729 (18011522)
        490485.95   3860988.59   172.20459 (18011522)   490535.95
3860988.59   160.94615 (20120318)
        490585.95   3860988.59   156.53245 (20120318)   490635.95
3860988.59   149.57149 (20120318)
        490685.95   3860988.59   147.27386 (18120708)   490735.95
3860988.59   143.49005 (18120708)
        490785.95   3860988.59   138.29449 (18120708)   490835.95
3860988.59   132.01228 (18120708)
        490885.95   3860988.59   124.97112 (18120708)   490935.95
3860988.59   116.33237 (18120708)
        489835.95   3861038.59   257.85450 (18121521)   489885.95
3861038.59   251.39224 (16021119)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: LOADING3 ***
                                INCLUDING SOURCE(S):   L0000204   , L0000205
, L0000206   , L0000207   , L0000208   ,
                 L0000209   , L0000210   , L0000211   , L0000212   , L0000213
, L0000214   , L0000215   , L0000216   ,
                 L0000217   , L0000218   , L0000219   , L0000220   , L0000221
, L0000222   , L0000223   , L0000224   ,
                 L0000225   , L0000226   , L0000227   , L0000228   , L0000229
, L0000230   , L0000231   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
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3861038.59   231.15739 (16021120)
        490035.95   3861038.59   219.07592 (15120519)   490085.95
3861038.59   237.91661 (18020819)
        490135.95   3861038.59   241.58053 (18020819)   490185.95
3861038.59   222.66392 (18020819)
        490235.95   3861038.59   217.70287 (15011619)   490285.95
3861038.59   205.56953 (18011122)
        490335.95   3861038.59   190.31490 (18020124)   490385.95
3861038.59   180.15602 (19020204)
        490435.95   3861038.59   173.09592 (18022523)   490485.95
3861038.59   170.35447 (18011721)
        490535.95   3861038.59   161.34088 (18011522)   490585.95
3861038.59   153.60534 (18011522)
        490635.95   3861038.59   142.54769 (18011522)   490685.95
3861038.59   134.22363 (20120318)
        490735.95   3861038.59   131.36096 (20120318)   490785.95
3861038.59   126.67321 (20120318)
        490835.95   3861038.59   123.64553 (18120708)   490885.95
3861038.59   122.51800 (18120708)
        490935.95   3861038.59   119.87481 (18120708)   489835.95
3861088.59   239.08791 (16011801)
        489885.95   3861088.59   229.61478 (18121521)   489935.95
3861088.59   223.94825 (16022523)
        489985.95   3861088.59   214.76858 (19120601)   490035.95
3861088.59   206.18333 (16021120)
        490085.95   3861088.59   195.93424 (18011823)   490135.95
3861088.59   197.13697 (18020819)
        490185.95   3861088.59   214.67581 (18020819)   490235.95
3861088.59   210.00957 (18020819)

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        490285.95   3861088.59      192.11995  (15011619)                490335.95
3861088.59      187.98636  (15011619)
        490385.95   3861088.59      180.15674  (18011122)                490435.95
3861088.59      168.62511  (18020124)
        490485.95   3861088.59      159.63470  (19020204)                490535.95
3861088.59      150.29232  (15123001)
        490585.95   3861088.59      147.92528  (18011721)                490635.95
3861088.59      142.58706  (18011721)
        490685.95   3861088.59      135.57214  (18011522)                490735.95
3861088.59      129.20844  (18011522)
        490785.95   3861088.59      120.82309  (18120921)                490835.95
3861088.59      114.67246  (20120318)
        490885.95   3861088.59      113.08136  (20120318)                490935.95
3861088.59      110.02906  (20120318)
        489020.79   3862564.85       55.71238  (18010720)                489043.15
3862350.21       64.34136  (18010720)
        489072.96   3862287.60       67.35473  (18010720)                488980.55
3862078.92       76.33589  (16121423)
        489037.19   3862822.72       48.23297  (15020218)                489120.66
3863016.49       53.26939  (20022108)
        489037.19   3863350.37       47.72236  (20022108)

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 503
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING4 ***
                                   INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489237.26               489256.56              489275.86
      489295.16              489314.46
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 ,
L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 ,
L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 ,
L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	489333.76	489353.06	489372.36	489391.66	489410.96
3859957.1	305.78307 (20022718)	308.61440 (20022718)	315.32485 (20040918)	314.36228 (20040918)	305.48540 (20040918)
3859937.6	301.05394 (20022718)	302.77648 (20022718)	313.59709 (20040918)	315.17237 (20040918)	308.44584 (20040918)
3859918.2	294.59852 (20022718)	295.40604 (20022718)	307.54090 (20040918)	309.36107 (20040918)	301.71847 (20040918)
3859898.8	289.09514 (20022718)	291.73133 (20040918)	303.85750 (20040918)	307.20437 (20040918)	300.40955 (20040918)
3859879.4	281.56730 (20022718)	288.44097 (20040918)	301.32509 (20040918)	304.20366 (20040918)	299.90595 (20040918)
3859860.0	274.20079 (20022718)	282.69904 (20040918)	296.30208 (20040918)	299.35180 (20040918)	294.64565 (20040918)
3859840.5	266.94662 (20022718)	277.00288 (20040918)	290.84660 (20040918)	294.02495 (20040918)	289.03020 (20040918)
3859821.1	260.86504 (20022718)	271.45864 (20040918)	284.10392 (20040918)	288.08104 (20040918)	282.76070 (20040918)
3859801.7	252.80761 (20022718)	266.12632 (20040918)	278.71947 (20040918)	281.73720 (20040918)	275.87902 (20040918)
3859782.3	245.93750 (20022718)	260.94315 (20040918)	272.88659 (20040918)	275.41801 (20040918)	268.35097 (20040918)
3859762.9	241.87550 (20022718)	255.34479 (20040918)	265.83727 (20040918)	269.28177 (20040918)	263.80611 (20040918)
3859743.4	235.74275 (20022718)	249.97523 (20040918)	260.65090 (20040918)	263.65152 (20040918)	258.27110 (20040918)

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 3859724.0 |    230.45214 (20022718)    245.38534 (20040918)    256.04838 (20040918)
   258.24429 (20040918)    252.61257 (20040918)
 3859704.6 |    223.58429 (20040918)    241.32830 (20040918)    250.97089 (20040918)
   252.90862 (20040918)    246.43835 (20040918)
 3859685.2 |    220.30695 (20040918)    236.88780 (20040918)    246.13522 (20040918)
   247.75569 (20040918)    241.71459 (20040918)
 3859665.8 |    216.48328 (20040918)    232.55810 (20040918)    241.21057 (20040918)
   242.77273 (20040918)    237.11913 (20040918)
 3859646.4 |    212.82730 (20040918)    228.19053 (20040918)    236.65475 (20040918)
   237.99125 (20040918)    232.25104 (20040918)
 3859626.9 |    208.69079 (20040918)    223.83479 (20040918)    232.20971 (20040918)
   233.38549 (20040918)    227.52243 (20040918)
 3859607.5 |    205.50657 (20040918)    220.05426 (20040918)    227.71174 (20040918)
   228.92379 (20040918)    222.91097 (20040918)
 3859588.1 |    201.98366 (20040918)    216.11135 (20040918)    223.80003 (20040918)
   224.64954 (20040918)    218.52276 (20040918)
 3859568.7 |    199.05971 (20040918)    212.63313 (20040918)    219.96323 (20040918)
   220.50059 (20040918)    214.23865 (20040918)
♠ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 505
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING4 ***
                                 INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489430.26              489449.56              489468.86
      489488.16              489507.46
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    290.90298 (20040918)    280.56461 (15120819)    271.11801 (15120819)
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```
  246.35794 (15120819)    223.20141 (15120819)
3859937.6 |    295.11227 (20040918)    288.49146 (15120819)    282.83602 (15120819)
  266.72845 (15120819)    246.51335 (15120819)
3859918.2 |    284.94856 (20040918)    282.28250 (15120819)    280.42441 (15120819)
  270.08954 (15120819)    251.16150 (15120819)
3859898.8 |    285.04893 (20040918)    280.06478 (15120819)    275.77993 (15120819)
  266.82064 (15120819)    250.86644 (15120819)
3859879.4 |    286.40951 (20040918)    278.76856 (15120819)    271.18095 (15120819)
  263.49048 (15120819)    253.10254 (18120603)
3859860.0 |    281.94648 (20040918)    279.13982 (15120819)    275.70798 (15120819)
  266.52052 (15120819)    255.13582 (18120603)
3859840.5 |    276.14704 (20040918)    274.71997 (15120819)    273.93759 (15120819)
  264.71661 (15120819)    252.26414 (18120603)
3859821.1 |    269.60889 (20040918)    268.44473 (15120819)    268.77267 (15120819)
  260.65063 (15120819)    246.59618 (18120603)
3859801.7 |    261.91358 (20040918)    262.67904 (15120819)    263.48471 (15120819)
  256.15106 (15120819)    242.75896 (18120603)
3859782.3 |    254.93142 (16020819)    257.27100 (15120819)    258.12673 (15120819)
  251.47273 (15120819)    237.79381 (18120603)
3859762.9 |    249.29487 (20040918)    251.04358 (15120819)    252.57462 (15120819)
  246.82566 (15120819)    232.65810 (15120819)
3859743.4 |    244.59452 (20040918)    244.98338 (15120819)    247.09963 (15120819)
  242.21176 (15120819)    229.02394 (15120819)
3859724.0 |    238.89599 (20040918)    239.13357 (15120819)    241.89605 (15120819)
  237.66971 (15120819)    225.56417 (15120819)
3859704.6 |    234.20558 (16020819)    233.44954 (15120819)    236.55759 (15120819)
  233.22765 (15120819)    222.10847 (15120819)
3859685.2 |    229.93271 (16020819)    228.12398 (15120819)    231.65642 (15120819)
  228.88137 (15120819)    218.65727 (15120819)
3859665.8 |    224.57162 (16020819)    222.92094 (15120819)    226.86264 (15120819)
  224.62726 (15120819)    215.21113 (15120819)
3859646.4 |    220.16774 (16020819)    217.63796 (15120819)    222.25206 (15120819)
  220.56645 (15120819)    211.82025 (15120819)
3859626.9 |    215.90346 (16020819)    213.32528 (16020819)    217.77316 (15120819)
  216.38331 (15120819)    208.24597 (15120819)
3859607.5 |    212.42669 (16020819)    209.53401 (16020819)    213.06667 (15120819)
  211.89106 (15120819)    204.34789 (15120819)
3859588.1 |    208.42659 (16020819)    205.36885 (16020819)    209.48726 (15120819)
  208.62759 (15120819)    201.51470 (15120819)
3859568.7 |    204.33842 (16020819)    201.25513 (16020819)    205.80543 (15120819)
  205.43755 (15120819)    198.81576 (15120819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 506
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: LOADING4 ***
                                INCLUDING SOURCE(S):   L0000232   , L0000233
, L0000234   , L0000235   , L0000236   ,
                 L0000237   , L0000238   , L0000239   , L0000240   , L0000241
, L0000242   , L0000243   , L0000244   ,
                 L0000245   , L0000246   , L0000247   , L0000248   , L0000249
, L0000250   , L0000251   , L0000252   ,
                 L0000253   , L0000254   , L0000255   , L0000256   , L0000257
, L0000258   , L0000259   ,

                                *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489526.76   489546.06   489565.36
      489584.66   489603.96
 -
- -

 3859957.1 | 214.60757 (15112019)   217.86620 (15112019)   215.60044 (16010405)
   209.66709 (16112920)   188.86017 (16112920)
 3859937.6 | 246.69150 (20030523)   250.21840 (15112019)   250.11818 (16010405)
   249.35067 (16010405)   238.62179 (16010405)
 3859918.2 | 251.44118 (20030523)   253.44357 (15112019)   247.88788 (15112019)
   250.44443 (16010405)   249.37043 (16010405)
 3859898.8 | 252.95833 (18120603)   250.74420 (20030523)   252.96765 (15112019)
   257.67505 (16010405)   254.26432 (16010405)
 3859879.4 | 255.13358 (18120603)   249.67624 (20030523)   252.61414 (15112019)
   255.66003 (16010405)   260.46975 (16010405)
 3859860.0 | 257.20011 (18120603)   251.42736 (20030523)   254.54593 (15112019)
   256.89636 (15112019)   258.69633 (16010405)
 3859840.5 | 254.68423 (18120603)   250.58227 (18120603)   251.72795 (20030523)
   255.42489 (15112019)   254.96610 (16010405)
 3859821.1 | 250.24008 (18120603)   248.05463 (18120603)   247.97637 (20030523)
   250.41033 (15112019)   249.98583 (16010405)
 3859801.7 | 247.11180 (18120603)   245.32946 (18120603)   244.46395 (20030523)
   246.77004 (15112019)   246.73719 (15112019)
 3859782.3 | 243.59708 (18120603)   242.40045 (18120603)   239.93225 (20030523)
   241.85563 (15112019)   243.22940 (15112019)
 3859762.9 | 239.16551 (18120603)   239.84592 (18120603)   235.05327 (20030523)
   236.68782 (20030523)   238.78949 (15112019)
 3859743.4 | 234.99971 (18120603)   236.44561 (18120603)   231.87936 (18120603)
   232.59071 (20030523)   234.38480 (15112019)
 3859724.0 | 230.09334 (18120603)   232.83991 (18120603)   229.03785 (18120603)
   228.61592 (20030523)   229.87572 (15112019)
 3859704.6 | 225.00737 (18120603)   229.03344 (18120603)   226.49274 (18120603)
   224.31543 (20030523)   224.54544 (15112019)

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 3859685.2 |    219.76204 (18120603)    225.03423 (18120603)    223.74555 (18120603)
   219.70667 (20030523)    220.17881 (20030523)
 3859665.8 |    214.37996 (18120603)    220.53069 (18120603)    220.79963 (18120603)
   214.57362 (20030523)    216.56940 (20030523)
 3859646.4 |    208.88438 (18120603)    216.22655 (18120603)    217.36447 (18120603)
   212.03317 (18120603)    212.70665 (20030523)
 3859626.9 |    203.10655 (18120603)    212.00365 (18120603)    214.33592 (18120603)
   210.22376 (18120603)    208.79830 (20030523)
 3859607.5 |    197.65487 (18120603)    207.54993 (18120603)    211.22614 (18120603)
   208.31027 (18120603)    204.61009 (20030523)
 3859588.1 |    191.19555 (18120603)    202.08766 (18120603)    207.17272 (18120603)
   205.44238 (18120603)    200.04382 (20030523)
 3859568.7 |    186.76126 (15120819)    196.36112 (18120603)    202.69210 (18120603)
   202.46581 (18120603)    195.38072 (18120603)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 507
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING4 ***
                                  INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489623.26
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    165.26262 (16112920)
 3859937.6 |    202.08682 (16112920)
 3859918.2 |    225.45515 (16010405)
 3859898.8 |    249.38289 (16010405)
 3859879.4 |    259.03239 (16010405)
 3859860.0 |    262.22203 (16010405)
```

 3859840.5 | 262.93763 (16010405)
 3859821.1 | 259.83569 (16010405)
 3859801.7 | 254.49397 (16010405)
 3859782.3 | 247.37943 (16010405)
 3859762.9 | 239.55606 (16010405)
 3859743.4 | 235.65372 (15112019)
 3859724.0 | 232.29168 (15112019)
 3859704.6 | 228.29703 (15112019)
 3859685.2 | 223.76542 (15112019)
 3859665.8 | 218.90975 (15112019)
 3859646.4 | 213.75291 (15112019)
 3859626.9 | 208.31941 (15112019)
 3859607.5 | 204.47681 (20030523)
 3859588.1 | 201.20982 (20030523)
 3859568.7 | 197.57101 (20030523)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
                                INCLUDING SOURCE(S):   L0000232   , L0000233 , L0000234   , L0000235   , L0000236   ,
                 L0000237   , L0000238   , L0000239   , L0000240   , L0000241 , L0000242   , L0000243   , L0000244   ,
                 L0000245   , L0000246   , L0000247   , L0000248   , L0000249 , L0000250   , L0000251   , L0000252   ,
                 L0000253   , L0000254   , L0000255   , L0000256   , L0000257 , L0000258   , L0000259   ,

                                 *** NETWORK ID: UCART2   ; NETWORK TYPE: GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489260.34   489284.99   489309.64
      489334.29   489358.94
 - - -

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 3859130.3 |    134.50753 (20022718)    132.54730 (16122922)    138.72716 (16122922)
   148.15132 (20040918)    153.97647 (20040918)
 3859108.7 |    131.97512 (20022718)    131.17827 (16122922)    136.79849 (16122922)
   146.17931 (20040918)    151.67707 (20040918)
 3859087.1 |    129.53802 (20022718)    129.69651 (16122922)    134.89464 (16122922)
   144.27649 (20040918)    149.45906 (20040918)
 3859065.6 |    127.21246 (20022718)    128.28187 (16122922)    133.01539 (16122922)
   142.38184 (20040918)    147.29210 (20040918)
 3859044.0 |    124.99186 (20022718)    126.81789 (16122922)    131.10835 (16122922)
   140.55774 (20040918)    145.14431 (20040918)
 3859022.4 |    122.70843 (20022718)    125.42128 (16122922)    129.27991 (16122922)
   138.77026 (20040918)    143.07588 (20040918)
 3859000.9 |    120.58615 (20022718)    123.97524 (16122922)    127.63622 (20040918)
   137.01833 (20040918)    141.05365 (20040918)
 3858979.3 |    118.40390 (20022718)    122.53409 (16122922)    126.27677 (20040918)
   135.30089 (20040918)    139.07614 (20040918)
 3858957.7 |    116.13254 (20022718)    121.22437 (16122922)    124.90091 (20040918)
   133.64051 (20040918)    137.16743 (20040918)
 3858936.1 |    113.94520 (20022718)    119.86070 (16122922)    123.58588 (20040918)
   131.96564 (20040918)    135.24998 (20040918)
 3858914.6 |    111.78517 (20022718)    118.44963 (16122922)    122.25068 (20040918)
   130.31842 (20040918)    133.39873 (20040918)
 3858893.0 |    110.72392 (16122922)    117.04656 (16122922)    120.88269 (20040918)
   128.69819 (20040918)    131.60990 (20040918)
 3858871.4 |    109.85474 (16122922)    115.77092 (16122922)    119.63267 (20040918)
   127.14156 (20040918)    129.78552 (20040918)
 3858849.9 |    108.97357 (16122922)    114.44564 (16122922)    118.44867 (20040918)
   125.61393 (20040918)    128.05028 (20040918)
 3858828.3 |    107.98413 (16122922)    113.12997 (16122922)    117.23458 (20040918)
   124.14375 (20040918)    126.35114 (20040918)
 3858806.7 |    107.04553 (16122922)    111.82417 (16122922)    116.03870 (20040918)
   122.67090 (20040918)    124.68706 (20040918)
 3858785.2 |    106.05383 (16122922)    110.52844 (16122922)    114.89832 (20040918)
   121.22489 (20040918)    123.08275 (20040918)
 3858763.6 |    105.06037 (16122922)    109.19379 (16122922)    113.70001 (20040918)
   119.77842 (20040918)    121.46011 (20040918)
 3858742.0 |    103.94060 (16122922)    107.75071 (16122922)    112.42104 (20040918)
   118.27583 (20040918)    119.78912 (20040918)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                         ***        01:16:45

                                    PAGE 509
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING4 ***
                                    INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
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```
                 L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                 L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                 L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489383.59              489408.24              489432.89
      489457.54              489482.19
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3859173.4 |    158.29944 (20040918)    150.98463 (20040918)    147.31168 (16020819)
   144.76642 (16020819)    144.87338 (15120819)
 3859151.9 |    155.71622 (20040918)    148.38264 (20040918)    145.03694 (16020819)
   142.65217 (16020819)    142.25674 (15120819)
 3859130.3 |    153.17706 (20040918)    145.85164 (20040918)    142.66858 (16020819)
   140.58975 (16020819)    139.67657 (15120819)
 3859108.7 |    150.72534 (20040918)    143.38900 (20040918)    140.35844 (16020819)
   138.41811 (16020819)    137.15486 (15120819)
 3859087.1 |    148.35562 (20040918)    140.95838 (20040918)    138.25963 (16020819)
   136.29546 (16020819)    134.69004 (15120819)
 3859065.6 |    146.00485 (20040918)    138.53670 (20040918)    136.21230 (16020819)
   134.54328 (16020819)    132.29474 (15120819)
 3859044.0 |    143.70552 (20040918)    136.21177 (20040918)    134.21459 (16020819)
   132.82156 (16020819)    129.93911 (15120819)
 3859022.4 |    141.48901 (20040918)    134.10046 (20040918)    132.40212 (16020819)
   130.99010 (16020819)    127.62201 (15120819)
 3859000.9 |    139.29404 (20040918)    131.89859 (20040918)    130.49417 (16020819)
   129.19998 (16020819)    125.38416 (15120819)
 3858979.3 |    137.14575 (20040918)    129.79788 (20040918)    128.63050 (16020819)
   127.58451 (16020819)    123.18207 (15120819)
 3858957.7 |    135.12392 (20040918)    127.74993 (20040918)    126.80980 (16020819)
   125.99670 (16020819)    121.02847 (15120819)
 3858936.1 |    133.07599 (20040918)    125.70266 (20040918)    124.77001 (16020819)
   124.06795 (16020819)    118.90723 (15120819)
 3858914.6 |    131.11216 (20040918)    123.75543 (20040918)    123.03819 (16020819)
   122.30197 (16020819)    116.84642 (15120819)
 3858893.0 |    129.22872 (20040918)    121.80079 (20040918)    121.34592 (16020819)
   120.70550 (16020819)    114.86858 (16020819)
 3858871.4 |    127.31912 (20040918)    119.94751 (20040918)    119.69186 (16020819)
   119.01316 (16020819)    113.36548 (16020819)
 3858849.9 |    125.44732 (20040918)    118.13852 (20040918)    117.94766 (16020819)
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
                                  INCLUDING SOURCE(S):   L0000232   , L0000233 , L0000234   , L0000235   , L0000236   ,
                 L0000237   , L0000238   , L0000239   , L0000240   , L0000241 , L0000242   , L0000243   , L0000244   ,
                 L0000245   , L0000246   , L0000247   , L0000248   , L0000249 , L0000250   , L0000251   , L0000252   ,
                 L0000253   , L0000254   , L0000255   , L0000256   , L0000257 , L0000258   , L0000259   ,

                                   *** NETWORK ID: UCART2   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489506.84   489531.49   489556.14
      489580.79   489605.44
 -

 3859173.4 | 147.52439 (15120819)   143.92585 (15120819)   134.65410 (15120819)
  127.45334 (19102618)   136.56333 (18120603)
 3859151.9 | 145.18699 (15120819)   142.04715 (15120819)   133.24492 (15120819)
  125.60711 (19102618)   133.34816 (18120603)
 3859130.3 | 142.89190 (15120819)   140.22574 (15120819)   131.92566 (15120819)
  123.88189 (19102618)   129.70963 (18120603)
 3859108.7 | 140.63831 (15120819)   138.38945 (15120819)   130.64905 (15120819)
  121.99692 (19102618)   125.68415 (18120603)

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 3859087.1 |    138.46871 (15120819)    136.60005 (15120819)    129.36554 (15120819)
   119.96638 (19102618)    121.86519 (18120603)
 3859065.6 |    136.29316 (15120819)    134.82332 (15120819)    128.02364 (15120819)
   118.06047 (19102618)    118.06463 (18120603)
 3859044.0 |    134.15054 (15120819)    133.06002 (15120819)    126.71768 (15120819)
   116.14575 (19102618)    115.18544 (19102618)
 3859022.4 |    132.05378 (15120819)    131.30028 (15120819)    125.46252 (15120819)
   115.06443 (15120819)    113.82865 (19102618)
 3859000.9 |    129.98325 (15120819)    129.57193 (15120819)    124.16400 (15120819)
   114.25231 (15120819)    112.44357 (19102618)
 3858979.3 |    127.96205 (15120819)    127.85326 (15120819)    122.85454 (15120819)
   113.47177 (15120819)    111.15254 (19102618)
 3858957.7 |    125.98824 (15120819)    126.16955 (15120819)    121.52263 (15120819)
   112.67458 (15120819)    109.82809 (19102618)
 3858936.1 |    124.03892 (15120819)    124.50744 (15120819)    120.24766 (15120819)
   111.76752 (15120819)    108.25683 (19102618)
 3858914.6 |    122.13009 (15120819)    122.87682 (15120819)    118.97961 (15120819)
   110.84286 (15120819)    106.66644 (19102618)
 3858893.0 |    120.25073 (15120819)    121.25695 (15120819)    117.74106 (15120819)
   109.99886 (15120819)    104.93621 (19102618)
 3858871.4 |    118.38831 (15120819)    119.63536 (15120819)    116.46559 (15120819)
   109.14961 (15120819)    103.30959 (19102618)
 3858849.9 |    116.55982 (15120819)    118.05878 (15120819)    115.22022 (15120819)
   108.29572 (15120819)    101.91466 (19102618)
 3858828.3 |    114.77919 (15120819)    116.48516 (15120819)    113.98298 (15120819)
   107.47439 (15120819)    100.38668 (19102618)
 3858806.7 |    113.01013 (15120819)    114.92845 (15120819)    112.73149 (15120819)
   106.61146 (15120819)     98.84990 (19102618)
 3858785.2 |    111.26767 (15120819)    113.38844 (15120819)    111.45457 (15120819)
   105.67364 (15120819)     97.19257 (19102618)
 3858763.6 |    109.55123 (15120819)    111.86251 (15120819)    110.20740 (15120819)
   104.76383 (15120819)     95.93227 (15120819)
 3858742.0 |    107.85789 (15120819)    110.41935 (15120819)    109.04173 (15120819)
   103.84857 (15120819)     95.21722 (15120819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 511
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING4 ***
                                   INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
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                 L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489630.09               489654.74               489679.39
      489704.04               489728.69
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3859173.4 |    143.46138 (18120603)    143.69230 (18120603)    137.42497 (18120603)
   140.30217 (20030523)    139.49323 (20030523)
 3859151.9 |    140.83824 (18120603)    142.07227 (18120603)    136.72525 (18120603)
   137.37076 (20030523)    137.83803 (20030523)
 3859130.3 |    137.94523 (18120603)    140.14442 (18120603)    135.70236 (18120603)
   134.28330 (20030523)    135.96694 (20030523)
 3859108.7 |    134.99585 (18120603)    137.74025 (18120603)    134.54150 (18120603)
   131.19748 (20030523)    133.75603 (20030523)
 3859087.1 |    131.81203 (18120603)    135.61967 (18120603)    133.43276 (18120603)
   127.85128 (20030523)    131.63312 (20030523)
 3859065.6 |    128.59055 (18120603)    133.22278 (18120603)    132.01881 (18120603)
   124.93890 (18120603)    129.33766 (20030523)
 3859044.0 |    125.52919 (18120603)    130.93612 (18120603)    130.48727 (18120603)
   124.41315 (18120603)    126.74829 (20030523)
 3859022.4 |    122.25721 (18120603)    128.39049 (18120603)    128.84487 (18120603)
   123.75175 (18120603)    124.01486 (20030523)
 3859000.9 |    119.15787 (18120603)    125.96813 (18120603)    127.09844 (18120603)
   122.77507 (18120603)    121.00445 (20030523)
 3858979.3 |    116.04840 (18120603)    123.30359 (18120603)    125.25488 (18120603)
   121.85620 (18120603)    118.02425 (20030523)
 3858957.7 |    112.75486 (18120603)    120.77496 (18120603)    123.51116 (18120603)
   121.19051 (18120603)    115.24501 (20030523)
 3858936.1 |    109.64846 (18120603)    118.20216 (18120603)    121.49579 (18120603)
   120.04271 (18120603)    113.28838 (18120603)
 3858914.6 |    106.55126 (18120603)    115.41372 (18120603)    119.59175 (18120603)
   118.78699 (18120603)    112.90852 (18120603)
 3858893.0 |    103.46910 (18120603)    112.77660 (18120603)    117.61573 (18120603)
   117.61276 (18120603)    112.40760 (18120603)
 3858871.4 |    102.21884 (19102618)    109.93861 (18120603)    115.57439 (18120603)
   116.34050 (18120603)    111.78978 (18120603)
 3858849.9 |    101.18316 (19102618)    107.08457 (18120603)    113.29635 (18120603)
   114.79873 (18120603)    111.24514 (18120603)
 3858828.3 |    100.11812 (19102618)    104.40008 (18120603)    111.14686 (18120603)
   113.35082 (18120603)    110.59084 (18120603)
 3858806.7 |     98.79904 (19102618)    101.53275 (18120603)    108.95102 (18120603)
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
                                   INCLUDING SOURCE(S):   L0000232   , L0000233 , L0000234   , L0000235   , L0000236   ,
                 L0000237   , L0000238   , L0000239   , L0000240   , L0000241 , L0000242   , L0000243   , L0000244   ,
                 L0000245   , L0000246   , L0000247   , L0000248   , L0000249 , L0000250   , L0000251   , L0000252   ,
                 L0000253   , L0000254   , L0000255   , L0000256   , L0000257 , L0000258   , L0000259   ,

                                    *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 488584.66   488614.48   488644.30
      488674.12   488703.94
 - - -

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    93.30037 (20090924)     90.64201 (20090924)
 3858755.4 |     95.06074 (19121917)     93.07218 (19121917)     91.00368 (20090924)
    91.10383 (20090924)     87.95320 (15013017)
 3858730.5 |     93.25174 (19121917)     89.89754 (19121917)     89.93600 (20090924)
    88.31884 (20090924)     87.23010 (15013017)
 3858705.5 |     90.87225 (19121917)     87.13481 (20090924)     88.38652 (20090924)
    85.47655 (20090924)     86.14188 (15013017)
 3858680.6 |     88.13404 (19121917)     86.48014 (20090924)     86.85576 (20090924)
    84.03532 (15013017)     85.03306 (15013017)
 3858655.7 |     84.92359 (19121917)     85.36403 (20090924)     83.85430 (20090924)
    83.35031 (15013017)     85.71786 (20040923)
 3858630.8 |     84.17018 (20090924)     84.14923 (20090924)     81.26484 (20090924)
    82.43467 (15013017)     86.38720 (20040923)
 3858605.8 |     83.72996 (20090924)     82.49078 (20090924)     80.22840 (15013017)
    81.11777 (15013017)     86.70401 (20040923)
 3858580.9 |     82.68497 (20090924)     80.28662 (20090924)     79.86298 (15013017)
    81.53599 (20040923)     86.81941 (20040923)
 3858556.0 |     80.66775 (20090924)     77.49878 (20090924)     79.00410 (15013017)
    82.37474 (20040923)     86.45718 (20040923)
 3858531.0 |     79.11427 (20090924)     77.06687 (15013017)     77.77208 (15013017)
    82.76258 (20040923)     86.37823 (16020520)
 3858506.1 |     76.81060 (20090924)     76.62929 (15013017)     78.14052 (20040923)
    83.09764 (20040923)     86.94668 (16020520)
 3858481.2 |     74.32064 (20090924)     75.90686 (15013017)     79.12079 (20040923)
    82.98678 (20040923)     87.10024 (16020520)
 3858456.2 |     74.19636 (15013017)     74.90632 (15013017)     79.58503 (20040923)
    82.44462 (20040923)     86.84616 (16020520)
 3858431.3 |     73.85645 (15013017)     74.94747 (20040923)     79.74778 (20040923)
    82.91073 (16020520)     86.29706 (16020520)
 3858406.4 |     73.01876 (15013017)     75.74816 (20040923)     79.37534 (20040923)
    82.99555 (16020520)     86.65050 (16012217)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 514
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING4 ***
                                   INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                   L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                   L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                   L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,
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*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 488733.76	488763.58	488793.40	488823.22	488853.04
3858905.0	101.56117 (20090924)	98.21924 (20090924)	99.94586 (20040923)	107.09961 (20040923)	113.30511 (16020520)
3858880.0	99.52481 (20090924)	96.74588 (15013017)	101.04827 (20040923)	105.98885 (20040923)	112.44686 (16020520)
3858855.1	96.47762 (20090924)	95.00952 (15013017)	101.25024 (20040923)	106.65583 (16020520)	112.57054 (16012217)
3858830.2	92.20712 (15013017)	94.08475 (20040923)	100.94610 (20040923)	106.61711 (16020520)	112.65873 (16012217)
3858805.3	91.65981 (15013017)	95.21235 (20040923)	100.67412 (20040923)	106.26157 (16020520)	112.40041 (16012217)
3858780.3	90.70493 (15013017)	95.91790 (20040923)	100.85690 (16020520)	105.95559 (16012217)	112.02242 (16012217)
3858755.4	89.50535 (20040923)	96.05613 (20040923)	101.14362 (16020520)	106.51024 (16012217)	110.93316 (16012217)
3858730.5	90.26186 (20040923)	95.62891 (20040923)	100.89636 (16020520)	106.56275 (16012217)	109.26324 (16012217)
3858705.5	90.58160 (20040923)	95.17253 (16020520)	100.37699 (16020520)	106.11433 (16012217)	107.33633 (16012217)
3858680.6	90.96550 (20040923)	95.47867 (16020520)	100.39205 (16012217)	105.27681 (16012217)	105.38537 (16012217)
3858655.7	90.97604 (20040923)	95.66512 (16020520)	100.78918 (16012217)	104.18657 (16012217)	102.85142 (16012217)
3858630.8	90.47287 (20040923)	95.36329 (16020520)	100.72156 (16012217)	102.75926 (16012217)	100.15076 (16012217)
3858605.8	90.82143 (16020520)	94.86442 (16012217)	100.40005 (16012217)	101.12058 (16012217)	97.33956 (20122517)
3858580.9	91.15848 (16020520)	95.46448 (16012217)	99.63723 (16012217)	99.26985 (16012217)	95.80580 (20122517)
3858556.0	91.16045 (16020520)	95.91160 (16012217)	98.73945 (16012217)	96.96803 (16012217)	93.81757 (20122517)
3858531.0	90.60743 (16020520)	95.84409 (16012217)	97.25571 (16012217)	94.35649 (16012217)	91.64992 (20122517)
3858506.1	90.72595 (16012217)	95.27939 (16012217)	95.66839 (16012217)	91.99136 (20122517)	89.54829 (20122517)
3858481.2	91.18630 (16012217)	94.58159 (16012217)	93.80972 (16012217)	90.59301 (20122517)	87.46807 (20122517)
3858456.2	91.33929 (16012217)	93.58530 (16012217)	91.70207 (16012217)	88.99266 (20122517)	85.11196 (20122517)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 , L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 , L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	488882.86	488912.68	488942.50	488972.32	489002.14
3858905.0	119.45273 (16012217)	122.12901 (16012217)	117.96363 (16012217)	114.18570 (20122517)	116.06298 (18122220)
3858880.0	118.93735 (16012217)	119.81937 (16012217)	114.90242 (20122517)	110.50838 (20122517)	115.18542 (18122220)
3858855.1	117.85895 (16012217)	117.12040 (16012217)	112.54090 (20122517)	108.31018 (18122220)	114.10038 (18122220)
3858830.2	116.34985 (16012217)	114.07067 (16012217)	110.04537 (20122517)	108.45759 (18122220)	112.65742 (18122220)
3858805.3	114.33767 (16012217)	110.49946 (16012217)	107.16356 (20122517)	108.31689 (18122220)	111.09804 (18122220)
3858780.3	112.43340 (16012217)	108.53482 (20122517)	104.17122 (20122517)	107.68715 (18122220)	109.40894 (18122220)
3858755.4	109.88767 (16012217)	106.23871 (20122517)	100.79464 (20122517)	106.80382 (18122220)	107.38432 (18122220)
3858730.5	106.82340 (16012217)	103.48750 (20122517)	100.90915 (18122220)		

  105.71970 (18122220)   105.14501 (18122220)
 3858705.5 | 103.50648 (16012217)   100.66102 (20122517)   100.83846 (18122220)
  104.46893 (18122220)   102.70500 (18122220)
 3858680.6 | 101.83503 (20122517)   97.88511 (20122517)   100.53348 (18122220)
  103.01638 (18122220)   100.25761 (18122220)
 3858655.7 | 99.64922 (20122517)   94.84981 (20122517)   100.00391 (18122220)
  101.26495 (18122220)   97.60987 (18122220)
 3858630.8 | 97.38027 (20122517)   94.08178 (18122220)   99.26041 (18122220)
   99.45934 (18122220)   94.90094 (18122220)
 3858605.8 | 94.92829 (20122517)   94.13505 (18122220)   98.25612 (18122220)
   97.50011 (18122220)   92.10723 (18122220)
 3858580.9 | 92.21564 (20122517)   93.96644 (18122220)   97.05816 (18122220)
   95.45322 (18122220)   89.24492 (18122220)
 3858556.0 | 89.47609 (20122517)   93.71747 (18122220)   95.74625 (18122220)
   93.22983 (18122220)   86.34588 (18122220)
 3858531.0 | 87.94319 (18122220)   93.27286 (18122220)   94.33043 (18122220)
   90.89863 (18122220)   83.37711 (18122220)
 3858506.1 | 88.24643 (18122220)   92.63961 (18122220)   92.80516 (18122220)
   88.53843 (18122220)   83.75517 (18010221)
 3858481.2 | 88.40729 (18122220)   91.82484 (18122220)   91.07742 (18122220)
   86.02750 (18122220)   84.08455 (18010221)
 3858456.2 | 88.37561 (18122220)   90.83679 (18122220)   89.17918 (18122220)
   83.45251 (18122220)   84.31037 (18010221)
 3858431.3 | 87.98554 (18122220)   89.68550 (18122220)   87.16945 (18122220)
   80.84010 (18122220)   84.44135 (18010221)
 3858406.4 | 87.55591 (18122220)   88.38106 (18122220)   85.09148 (18122220)
   78.17240 (18122220)   84.46927 (18010221)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
                                  INCLUDING SOURCE(S):   L0000232   , L0000233 , L0000234   , L0000235   , L0000236   ,
                  L0000237   , L0000238   , L0000239   , L0000240   , L0000241 , L0000242   , L0000243   , L0000244   ,
                  L0000245   , L0000246   , L0000247   , L0000248   , L0000249 , L0000250   , L0000251   , L0000252   ,
                  L0000253   , L0000254   , L0000255   , L0000256   , L0000257 , L0000258   , L0000259   ,

                                   *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	489031.96	489061.78	489091.60	489121.42	489151.24
3858905.0	118.31243 (18122220)	113.92672 (18122220)	111.61342 (18010221)	119.35087 (18010221)	120.32021 (18010221)
3858880.0	116.04045 (18122220)	110.48184 (18122220)	111.41036 (18010221)	118.03667 (18010221)	117.98776 (18010221)
3858855.1	113.51910 (18122220)	106.91015 (18122220)	111.05723 (18010221)	116.61633 (18010221)	115.57110 (18010221)
3858830.2	110.87755 (18122220)	103.29283 (18122220)	110.57700 (18010221)	115.08474 (18010221)	113.10121 (18010221)
3858805.3	108.12862 (18122220)	100.72202 (18010221)	109.92756 (18010221)	113.42759 (18010221)	110.56753 (18010221)
3858780.3	105.26718 (18122220)	100.94000 (18010221)	109.18057 (18010221)	111.68858 (18010221)	108.01391 (18010221)
3858755.4	102.23982 (18122220)	101.02152 (18010221)	108.31741 (18010221)	109.87491 (18010221)	105.40910 (18010221)
3858730.5	99.07223 (18122220)	100.97010 (18010221)	107.32672 (18010221)	107.98051 (18010221)	104.27240 (19011424)
3858705.5	95.83679 (18122220)	100.78919 (18010221)	106.20375 (18010221)	106.01301 (18010221)	103.18249 (19011424)
3858680.6	92.56990 (18122220)	100.45265 (18010221)	104.93083 (18010221)	103.97934 (18010221)	102.16150 (19011424)
3858655.7	91.57563 (18010221)	100.05086 (18010221)	103.65186 (18010221)	101.88001 (18010221)	101.00599 (19011424)
3858630.8	91.85778 (18010221)	99.50643 (18010221)	102.28289 (18010221)	99.74352 (18010221)	99.80226 (19011424)
3858605.8	92.01980 (18010221)	98.83372 (18010221)	100.83023 (18010221)	97.59725 (18010221)	98.51020 (19011424)
3858580.9	92.06513 (18010221)	98.07446 (18010221)	99.28612 (18010221)	95.41516 (18010221)	97.13079 (19011424)
3858556.0	92.01056 (18010221)	97.23918 (18010221)	97.67552 (18010221)	93.89877 (19011424)	95.76714 (19011424)
3858531.0	91.83635 (18010221)	96.29122 (18010221)	96.00499 (18010221)	93.13133 (19011424)	94.36645 (19011424)
3858506.1	91.55652 (18010221)	95.27628 (18010221)	94.28100 (18010221)	92.32251 (19011424)	92.93242 (19011424)
3858481.2	91.19248 (18010221)	94.16140 (18010221)	92.51992 (18010221)	91.42643 (19011424)	91.46870 (19011424)
3858456.2	90.73163 (18010221)	92.97126 (18010221)	90.70593 (18010221)	90.47870 (19011424)	89.97881 (19011424)
3858431.3	90.16365 (18010221)	91.72761 (18010221)	88.86000 (18010221)	89.50164 (19011424)	88.41757 (19011424)
3858406.4	89.50692 (18010221)	90.41571 (18010221)	86.97733 (18010221)	88.44020 (19011424)	86.88507 (19011424)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 , L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 , L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489181.06
3858905.0	116.72778 (19011424)
3858880.0	115.28307 (19011424)
3858855.1	113.73656 (19011424)
3858830.2	112.13201 (19011424)
3858805.3	110.47401 (19011424)
3858780.3	108.81109 (19011424)
3858755.4	107.14344 (19011424)
3858730.5	105.35670 (19011424)
3858705.5	103.53329 (19011424)
3858680.6	101.72314 (19011424)
3858655.7	99.92732 (19011424)
3858630.8	98.13693 (19011424)
3858605.8	96.26117 (19011424)
3858580.9	94.34062 (19011424)
3858556.0	92.67411 (20022718)
3858531.0	91.43459 (20022718)
3858506.1	90.12988 (20022718)
3858481.2	88.82121 (20022718)
3858456.2	87.56185 (20022718)
3858431.3	86.29578 (20022718)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
                                  INCLUDING SOURCE(S):   L0000232   , L0000233 , L0000234   , L0000235   , L0000236   ,
                 L0000237   , L0000238   , L0000239   , L0000240   , L0000241 , L0000242   , L0000243   , L0000244   ,
                 L0000245   , L0000246   , L0000247   , L0000248   , L0000249 , L0000250   , L0000251   , L0000252   ,
                 L0000253   , L0000254   , L0000255   , L0000256   , L0000257 , L0000258   , L0000259   ,

                                   *** NETWORK ID: UCART4   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489386.10   489460.62   489535.14
      489609.66   489684.18
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 3861449.5 |    116.01010 (19121703)    121.74229 (20122019)    121.55627 (16020720)
   122.79817 (16020722)    120.15522 (19123008)
 3861424.4 |    119.35672 (19121703)    125.15615 (20122019)    125.22542 (16020720)
   125.75742 (16020722)    123.35110 (19123008)
 3861399.2 |    122.84521 (19121703)    128.37683 (20122019)    128.79176 (16020720)
   129.13369 (16020722)    126.30772 (19123008)
 3861374.1 |    126.31041 (19121703)    131.54133 (20122019)    132.77625 (16020720)
   132.44978 (16020722)    128.64246 (19123008)
 3861348.9 |    129.91406 (19121703)    135.14267 (20021406)    136.84170 (16020720)
   135.30868 (16020722)    132.42446 (19121118)
 3861323.8 |    133.66236 (19121703)    139.53250 (20021406)    141.42185 (19010903)
   138.02879 (16020722)    137.50059 (19121118)
 3861298.7 |    137.76404 (19121703)    143.92387 (20021406)    146.13346 (19010903)
   141.94336 (16122202)    143.04611 (19121118)
 3861273.5 |    142.47211 (19121703)    148.29666 (20021406)    150.52051 (19010903)
   147.70459 (16122202)    146.99030 (19121118)
 3861248.4 |    148.08799 (19121703)    153.32745 (20021406)    154.74326 (19010903)
   152.95014 (16122202)    150.61139 (19121118)
 3861223.2 |    154.25711 (19121703)    159.34683 (20021406)    159.25232 (19010903)
   157.56209 (16122202)    154.92712 (18120822)
 3861198.1 |    160.78619 (19121703)    165.96562 (20021406)    164.34107 (19010903)
   162.59861 (19123008)    159.14032 (18120822)
 3861173.0 |    167.69491 (19121703)    172.97240 (20021406)    170.09032 (16020722)
   167.98276 (19123008)    164.30367 (19122119)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 519
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING4 ***
                                   INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                    *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                X-COORD (METERS)
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  (METERS) |       489758.70              489833.22              489907.74
      489982.26              490056.78
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |     93.26910 (19123008)     91.54108 (19121118)     90.25970 (19122119)
    87.28402 (16020721)     87.14072 (16122718)
 3861650.6 |     95.09974 (19123008)     93.18147 (18120822)     92.51890 (19122119)
    88.67595 (16020721)     91.51538 (16122718)
 3861625.5 |     97.06141 (19123008)     95.84717 (20010322)     94.60440 (19122119)
    90.18790 (16020721)     96.11243 (18010223)
 3861600.3 |    101.32462 (19121118)     99.05489 (20010322)     97.17877 (19010320)
    92.90634 (16122118)    101.09141 (18010223)
 3861575.2 |    104.40173 (19121118)    101.05526 (20010322)     99.67615 (19010320)
    95.93554 (16122118)    103.84003 (18010223)
 3861550.1 |    106.73054 (19121118)    103.18732 (19122119)    102.22561 (19010320)
   100.27938 (16122718)    105.81333 (18010223)
 3861524.9 |    109.36058 (19121118)    106.48193 (19122119)    104.01209 (19010320)
   105.83921 (16122718)    109.82707 (19122908)
 3861499.8 |    111.79753 (19121118)    109.61983 (19122119)    105.95786 (16020721)
   112.14382 (16122718)    114.14915 (19122908)
 3861474.6 |    114.15270 (19121118)    112.42914 (19122119)    107.77598 (16020721)
   118.49598 (16122718)    116.40015 (19122908)
 3861449.5 |    116.70062 (19121118)    114.84760 (19122119)    110.46167 (16122118)
   120.99058 (18010223)    117.36669 (19122908)
 3861424.4 |    119.51212 (18120822)    118.73339 (19010320)    115.14092 (16122118)
   123.29231 (16122718)    117.08466 (19122908)
 3861399.2 |    122.71971 (20010322)    123.02875 (19010320)    122.18240 (16122718)
   126.95166 (19122908)    118.29831 (18012324)
 3861374.1 |    125.86736 (20010322)    126.37748 (19010320)    128.66284 (16122718)
   131.38224 (19122908)    124.02638 (19022504)
 3861348.9 |    130.93875 (19122119)    128.31350 (19010320)    134.69513 (16122718)
   134.36915 (19122908)    128.82316 (19022504)
 3861323.8 |    135.88312 (19122119)    129.56076 (19122222)    139.94055 (16122718)
   135.69500 (19122908)    131.53340 (19022504)
 3861298.7 |    140.23259 (19122119)    133.67291 (16122118)    143.99766 (16122718)
   135.56828 (19122908)    134.83936 (16010323)
 3861273.5 |    143.86927 (19122119)    140.37948 (16122718)    149.46770 (19122908)
   142.72076 (19022504)    139.15036 (16122308)
 3861248.4 |    148.54695 (19010320)    150.91153 (16122718)    155.53700 (19122908)
   148.53882 (19022504)    143.81213 (16122308)
 3861223.2 |    153.59812 (19010320)    160.27476 (16122718)    158.97432 (19122908)
   151.88601 (19022504)    146.11310 (16122308)
 3861198.1 |    157.62375 (19010320)    167.76728 (16122718)    159.89214 (19122908)
   156.10852 (16010323)    146.30889 (16122222)
 3861173.0 |    160.95339 (19122222)    173.45343 (16122718)    164.12383 (19022504)
   163.43764 (16122308)    153.37204 (16122222)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 , L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 , L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 490131.30	490205.82	490280.34	490354.86	490429.38
3861675.8	91.20049 (18010223)	88.08839 (19122908)	84.81037 (19022504)	81.85770 (19011524)	79.53047 (16122308)
3861650.6	93.58586 (19122908)	88.07579 (19122908)	88.25585 (19022504)	83.98288 (16122308)	79.03215 (16122308)
3861625.5	97.60923 (19122908)	90.13968 (18012324)	91.06569 (19022504)	87.24549 (16122308)	81.92637 (16122222)
3861600.3	101.36377 (19122908)	94.51514 (18012324)	93.92027 (19010322)	91.08722 (16122308)	87.19107 (16122222)
3861575.2	102.17633 (19122908)	98.56977 (19022504)	94.95375 (19011524)	90.88157 (16122308)	88.41047 (16122222)
3861550.1	103.52099 (19122908)	101.58462 (19022504)	98.57940 (16122308)	90.71448 (16122222)	90.85866 (16011801)
3861524.9	102.50971 (19122908)	102.88607 (19022504)	101.24467 (16122308)	95.56268 (16122222)	91.49354 (16011801)
3861499.8	105.73976 (18012324)	105.73514 (19010322)	103.13295 (16122308)	98.57858 (16122222)	90.79671 (16011801)
3861474.6	110.39072 (19022504)	108.89294 (16122308)	103.66798 (16122308)	99.95065 (16011801)	92.73609 (18121521)
3861449.5	116.09869 (19022504)	113.51275 (16122308)	105.44206 (16122222)	100.71473 (16011801)	95.65864 (18121521)
3861424.4	116.70086 (19022504)	115.60518 (16122308)	108.33011 (16122222)	100.08351 (16011801)	98.62605 (16022523)

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 3861399.2 |    118.91461 (16010323)    115.05238 (16122308)    109.71172 (16011801)
   101.57244 (18121521)    100.56279 (16022523)
 3861374.1 |    121.89270 (16122308)    114.64692 (16122222)    111.26806 (16011801)
   104.89652 (18121521)    100.47876 (16022523)
 3861348.9 |    125.91504 (16122308)    119.51495 (16122222)    111.02320 (16011801)
   108.40883 (16022523)    100.44887 (19120601)
 3861323.8 |    127.97680 (16122308)    121.03501 (16011801)    112.94308 (18121521)
   110.78901 (16022523)    104.82309 (19120601)
 3861298.7 |    128.82061 (16122308)    123.70418 (16011801)    116.95266 (18121521)
   110.18559 (16022523)    106.96201 (19120601)
 3861273.5 |    131.03424 (16122222)    124.36212 (16011801)    121.29882 (16022523)
   113.14502 (19120601)    106.70403 (19120601)
 3861248.4 |    134.48933 (16122222)    126.55140 (18121521)    123.01657 (16022523)
   117.00770 (19120601)    110.23100 (16021120)
 3861223.2 |    138.85755 (16011801)    131.27902 (16022523)    123.29150 (19122621)
   118.11691 (19120601)    113.81326 (16021120)
 3861198.1 |    140.47613 (16011801)    136.91887 (16022523)    129.99899 (19120601)
   119.93236 (16021120)    114.90580 (16021120)
 3861173.0 |    143.03665 (18121521)    138.89282 (16022523)    132.45825 (19120601)
   125.17651 (16021120)    118.98007 (18011823)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 521
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING4 ***
                                   INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                    *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       490503.90              490578.42              490652.94
      490727.46              490801.98
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 3861675.8 |     77.13266 (16122222)     73.66007 (16011801)     71.21427 (18121521)
    71.75220 (16022523)     66.28569 (19122621)
 3861650.6 |     77.98751 (16122222)     73.68747 (16011801)     73.92512 (16022523)
    72.45770 (16022523)     69.30775 (19120601)
 3861625.5 |     80.45884 (16011801)     76.11796 (18121521)     77.09120 (16022523)
    72.32224 (19122621)     70.95719 (19120601)
 3861600.3 |     83.23418 (16011801)     79.45825 (18121521)     77.97697 (16022523)
    73.09679 (19120601)     71.40272 (19120601)
 3861575.2 |     82.50995 (16011801)     81.74508 (16022523)     77.62312 (16022523)
    75.50516 (19120601)     70.57469 (19120601)
 3861550.1 |     83.85558 (18121521)     83.87348 (16022523)     77.89991 (19122621)
    76.59079 (19120601)     71.64327 (16021120)
 3861524.9 |     86.72690 (18121521)     84.63401 (16022523)     80.33289 (19120601)
    76.52348 (19120601)     74.12422 (16021120)
 3861499.8 |     89.14582 (16022523)     84.31671 (19122621)     82.39433 (19120601)
    75.98120 (16021120)     75.62899 (16021120)
 3861474.6 |     91.53541 (16022523)     85.06615 (19120601)     82.76378 (19120601)
    79.06466 (16021120)     75.70704 (16021120)
 3861449.5 |     92.38578 (16022523)     88.34717 (19120601)     81.58427 (19120601)
    80.98317 (16021120)     77.45136 (18011823)
 3861424.4 |     91.89871 (19122621)     89.75893 (19120601)     84.37722 (16021120)
    81.05464 (16021120)     78.78425 (18011823)
 3861399.2 |     94.21821 (19120601)     89.11859 (19120601)     86.72837 (16021120)
    83.02637 (18011823)     78.98166 (19022404)
 3861374.1 |     96.87025 (19120601)     90.25505 (16021120)     87.49432 (16021120)
    84.70720 (18011823)     79.25467 (19022404)
 3861348.9 |     97.40832 (19120601)     93.54156 (16021120)     88.91366 (18011823)
    84.85781 (19022404)     85.29874 (18020819)
 3861323.8 |     96.55824 (16021120)     94.83035 (16021120)     91.02133 (18011823)
    85.07977 (19022404)     94.19424 (18020819)
 3861298.7 |    101.24561 (16021120)     96.43980 (18011823)     91.41155 (19022404)
    93.95439 (18020819)    102.24496 (18020819)
 3861273.5 |    103.57111 (16021120)     98.90661 (18011823)     91.95236 (19022404)
   103.44407 (18020819)    106.76400 (18020819)
 3861248.4 |    104.32935 (18011823)    100.45554 (19022404)    102.39674 (18020819)
   110.55718 (18020819)    108.21706 (18020819)
 3861223.2 |    108.32396 (18011823)    101.68662 (18020819)    113.10794 (18020819)
   114.86179 (18020819)    106.21242 (18020819)
 3861198.1 |    109.80547 (19022404)    115.55407 (18020819)    120.97811 (18020819)
   115.23089 (18020819)    107.76815 (15011619)
 3861173.0 |    112.52825 (18020819)    126.62050 (18020819)    124.75699 (18020819)
   111.46745 (18020819)    111.12661 (15011619)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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                                   PAGE 522
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 , L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 , L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 490876.50
3861675.8	66.01379 (19120601)
3861650.6	66.53343 (19120601)
3861625.5	65.18831 (19120601)
3861600.3	67.49307 (16021120)
3861575.2	69.41869 (16021120)
3861550.1	70.22887 (16021120)
3861524.9	69.90203 (16021120)
3861499.8	72.39340 (18011823)
3861474.6	73.58214 (18011823)
3861449.5	73.95884 (19022404)
3861424.4	73.86662 (19022404)
3861399.2	78.13837 (18020819)
3861374.1	86.51012 (18020819)
3861348.9	93.37209 (18020819)
3861323.8	98.14991 (18020819)
3861298.7	100.12912 (18020819)
3861273.5	99.02953 (18020819)
3861248.4	97.42499 (15011619)
3861223.2	102.34262 (15011619)
3861198.1	103.92689 (15011619)
3861173.0	105.26864 (18011122)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 ,
L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 ,
L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 ,
L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	491611.20	491641.99	491672.78	491703.57	491734.36
3861693.5	57.68221 (18020819)	55.76554 (18020819)	53.70679 (20012519)	52.56014 (15011619)	52.99919 (15011619)
3861664.1	55.70366 (18020819)	54.12775 (15011619)	54.65739 (15011619)	54.94868 (15011619)	54.81445 (15011619)
3861634.6	56.54903 (15011619)	56.86995 (15011619)	56.73399 (15011619)	56.31462 (15011619)	55.48242 (15011619)
3861605.2	58.75999 (15011619)	58.42466 (15011619)	57.53653 (15011619)	56.34442 (15011619)	55.94295 (18011122)
3861575.7	59.71497 (15011619)	58.54744 (15011619)	57.88264 (18011122)	57.20658 (18011122)	56.09242 (18011122)
3861546.3	60.04921 (18011122)	59.40338 (18011122)	58.17720 (18011122)	56.73730 (18011122)	56.13039 (18020124)
3861516.8	60.45136 (18011122)	58.98094 (18011122)	58.26453 (18020124)	57.20638 (18020124)	55.86588 (18020124)
3861487.4	60.41936 (18020124)	59.38833 (18020124)	57.99213 (18020124)	57.33865 (19020204)	56.41830 (19020204)
3861457.9	60.06006 (19020204)	59.46336 (19020204)	58.48615 (19020204)	57.16445 (19020204)	55.53821 (19020204)
3861428.5	60.79455 (19020204)	59.20623 (19020204)	57.47195 (19020204)	56.27493 (19022507)	55.89499 (15123001)
3861399.0	59.56592 (19020204)	58.36194 (19022507)	58.28481 (15123001)	57.82084 (15123001)	57.14354 (15123001)
3861369.6	60.74855 (15123001)	60.12692 (15123001)	59.61881 (18011721)	59.48471 (18011721)	59.11020 (18011721)
3861340.1	62.30132 (18011721)	62.07244 (18011721)	61.52655 (18011721)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 , L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 , L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	491765.15	491795.94	491826.73	491857.52	491888.31
3861693.5	53.07743 (15011619)	52.94759 (15011619)	52.53019 (15011619)	51.79913 (15011619)	50.74208 (18011122)

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 3861664.1 |     54.32222 (15011619)     53.49600 (15011619)     52.37117 (18011122)
    51.92161 (18011122)     51.31775 (18011122)
 3861634.6 |     54.17472 (15011619)     53.96659 (18011122)     53.19621 (18011122)
    52.09545 (18011122)     50.83081 (18011122)
 3861605.2 |     55.14111 (18011122)     54.17731 (18011122)     52.83771 (18011122)
    52.23140 (18020124)     51.44193 (18020124)
 3861575.7 |     54.72959 (18011122)     54.17248 (18020124)     53.26868 (18020124)
    52.07135 (18020124)     51.45369 (19020204)
 3861546.3 |     55.20504 (18020124)     54.06293 (18020124)     53.33712 (19020204)
    52.70694 (19020204)     51.73976 (19020204)
 3861516.8 |     55.17701 (19020204)     54.41194 (19020204)     53.39122 (19020204)
    52.04625 (19020204)     50.68803 (19022507)
 3861487.4 |     55.17645 (19020204)     53.69973 (19020204)     52.30127 (19022507)
    51.48587 (15123001)     51.52500 (15123001)
 3861457.9 |     54.18681 (19022507)     53.58120 (15123001)     53.47498 (15123001)
    53.03172 (15123001)     52.37358 (18011721)
 3861428.5 |     55.62146 (15123001)     55.04273 (15123001)     54.66296 (18011721)
    54.51700 (18011721)     54.12380 (18011721)
 3861399.0 |     57.06952 (18011721)     56.79066 (18011721)     56.24977 (18011721)
    55.51691 (18011721)     54.55983 (18011721)
 3861369.6 |     58.51206 (18011721)     57.54742 (18011721)     56.40516 (18011721)
    55.32192 (18011522)     54.77014 (18011522)
 3861340.1 |     58.23211 (18011721)     57.51975 (18011522)     56.84833 (18011522)
    55.77704 (18011522)     54.78042 (18011522)
 3861310.7 |     58.80832 (18011522)     57.63907 (18011522)     56.34458 (18011522)
    54.79366 (18011522)     53.86662 (16123005)
 3861281.2 |     57.93862 (18011522)     56.59802 (16123005)     55.58565 (16123005)
    54.43160 (16123005)     53.06567 (18120921)
 3861251.8 |     57.35747 (16123005)     55.92822 (18120921)     55.04517 (20120318)
    54.96247 (20120318)     54.66926 (20120318)
 3861222.3 |     57.88348 (20120318)     57.60809 (20120318)     57.21497 (20120318)
    56.66269 (20120318)     55.86482 (20120318)
 3861192.9 |     59.70143 (20120318)     58.81313 (20120318)     57.93925 (20120318)
    57.01830 (19020808)     56.66528 (19020808)
 3861163.4 |     60.13945 (19020808)     59.75549 (19020808)     59.36129 (18120708)
    59.43777 (18120708)     59.29707 (18120708)
 3861134.0 |     62.89710 (18120708)     62.84708 (18120708)     62.14532 (18120708)
    61.59459 (18120708)     60.78554 (18120708)
 3861104.5 |     65.10272 (18120708)     64.00296 (18120708)     62.95979 (18120708)
    61.85459 (18120708)     60.58033 (18120708)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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                                  PAGE 525
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING4 ***
```

INCLUDING SOURCE(S): L0000232 , L0000233
, L0000234 , L0000235 , L0000236 ,
L0000237 , L0000238 , L0000239 , L0000240 , L0000241
, L0000242 , L0000243 , L0000244 ,
L0000245 , L0000246 , L0000247 , L0000248 , L0000249
, L0000250 , L0000251 , L0000252 ,
L0000253 , L0000254 , L0000255 , L0000256 , L0000257
, L0000258 , L0000259 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	491919.10	491949.89	491980.68	492011.47	492042.26
3861693.5	49.95383 (18011122)	49.37590 (18011122)	48.50509 (18011122)	47.40813 (18011122)	46.96275 (18020124)
3861664.1	50.31310 (18011122)	49.15497 (18011122)	48.80394 (18020124)	48.16765 (18020124)	47.24340 (18020124)
3861634.6	50.35715 (18020124)	49.71629 (18020124)	48.76779 (18020124)	48.07253 (19020204)	47.65192 (19020204)
3861605.2	50.37496 (18020124)	49.67342 (19020204)	49.14820 (19020204)	48.36725 (19020204)	47.43550 (19020204)
3861575.7	50.81065 (19020204)	49.94305 (19020204)	48.91610 (19020204)	47.53977 (19020204)	46.81999 (19022507)
3861546.3	50.51277 (19020204)	49.05662 (19020204)	48.28008 (19022507)	48.00941 (15123001)	47.83754 (15123001)
3861516.8	49.93452 (19022507)	49.66294 (15123001)	49.39804 (15123001)	49.15039 (15123001)	48.65652 (18011721)
3861487.4	51.24563 (15123001)	50.71049 (15123001)	50.44233 (18011721)	50.37834 (18011721)	50.23245 (18011721)
3861457.9	52.43671 (18011721)	52.21852 (18011721)	51.87024 (18011721)	51.22243 (18011721)	50.60180 (18011721)
3861428.5	53.59596 (18011721)	52.85068 (18011721)	51.90659 (18011721)	50.85956 (18011522)	50.58801 (18011522)
3861399.0	53.44890 (18011721)	52.78930 (18011522)	52.16078 (18011522)	51.36555 (18011522)	50.59059 (18011522)
3861369.6	53.88526 (18011522)	53.06631 (18011522)	51.90546 (18011522)	50.65515 (18011522)	49.66635 (16123005)
3861340.1	53.28929 (18011522)	51.97076 (16123005)	51.20322 (16123005)	50.26507 (16123005)	49.30415 (16123005)
3861310.7	52.79307 (16123005)	51.64745 (16123005)	50.39636 (16123005)	49.82746 (20120318)	49.89100 (20120318)
3861281.2	52.30552 (20120318)	52.23419 (20120318)	52.01641 (20120318)		

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    51.79218 (20120318)     51.26173 (20120318)
 3861251.8 |     54.31989 (20120318)     53.82657 (20120318)     53.19984 (20120318)
    52.49515 (20120318)     51.50341 (20120318)
 3861222.3 |     55.08193 (20120318)     54.12836 (20120318)     53.72860 (19020808)
    53.25259 (19020808)     52.98960 (18120708)
 3861192.9 |     56.09659 (19020808)     56.15298 (18120708)     56.03777 (18120708)
    55.78581 (18120708)     55.25386 (18120708)
 3861163.4 |     58.94989 (18120708)     58.46254 (18120708)     57.84510 (18120708)
    57.16020 (18120708)     56.15920 (18120708)
 3861134.0 |     60.02098 (18120708)     59.02496 (18120708)     57.87176 (18120708)
    56.68248 (18120708)     55.41362 (18120708)
 3861104.5 |     59.21232 (18120708)     57.76400 (18120708)     56.24819 (18120708)
    54.72787 (18120708)     53.45843 (15020502)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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                                  PAGE 526
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING4 ***
                                  INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                  L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                  L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                   *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       492073.05              492103.84              492134.63
      492165.42              492196.21
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- - - - - - - - - - - - - - - - - - - - - - - - -

 3861693.5 |     46.17781 (18020124)     45.28853 (18020124)     44.45794 (19020204)
    44.11377 (19020204)     43.51901 (19020204)
 3861664.1 |     45.95093 (19020204)     45.51549 (19020204)     44.93367 (19020204)
    44.10422 (19020204)     43.08674 (19020204)
 3861634.6 |     46.82651 (19020204)     45.54768 (19020204)     44.32133 (19020204)
    43.11363 (19022507)     42.75633 (19022507)
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 3861605.2 |     46.13057 (19020204)     45.11076 (19022507)     44.24580 (19022507)
    43.87566 (15123001)     43.77595 (15123001)
 3861575.7 |     46.34384 (15123001)     45.98133 (15123001)     45.79621 (15123001)
    44.98491 (15123001)     44.49896 (18011721)
 3861546.3 |     47.31624 (15123001)     46.70633 (15123001)     46.65774 (18011721)
    46.46642 (18011721)     46.13701 (18011721)
 3861516.8 |     48.39597 (18011721)     48.22876 (18011721)     47.79161 (18011721)
    47.29947 (18011721)     46.48607 (18011721)
 3861487.4 |     49.45933 (18011721)     48.72029 (18011721)     47.85640 (18011721)
    46.88459 (18011522)     46.49203 (18011522)
 3861457.9 |     49.28852 (18011721)     48.58665 (18011522)     48.07459 (18011522)
    47.41853 (18011522)     46.63054 (18011522)
 3861428.5 |     49.77019 (18011522)     48.93367 (18011522)     47.96474 (18011522)
    46.95573 (18011522)     45.80081 (18011522)
 3861399.0 |     49.37829 (18011522)     48.13435 (18011522)     47.27713 (16123005)
    46.58850 (16123005)     45.72173 (16123005)
 3861369.6 |     48.74439 (16123005)     47.84404 (16123005)     46.88755 (16123005)
    45.72668 (16123005)     45.38321 (20120318)
 3861340.1 |     47.98992 (16123005)     47.49957 (20120318)     47.44677 (20120318)
    47.27330 (20120318)     47.02347 (20120318)
 3861310.7 |     49.61269 (20120318)     49.33286 (20120318)     48.85375 (20120318)
    48.30577 (20120318)     47.61813 (20120318)
 3861281.2 |     50.61280 (20120318)     49.93842 (20120318)     49.12147 (20120318)
    48.53261 (19020808)     48.20318 (19020808)
 3861251.8 |     51.02602 (19020808)     50.58635 (19020808)     50.17499 (18120708)
    50.18373 (18120708)     50.03434 (18120708)
 3861222.3 |     52.99069 (18120708)     52.81866 (18120708)     52.48164 (18120708)
    52.08089 (18120708)     51.53109 (18120708)
 3861192.9 |     54.85451 (18120708)     54.29143 (18120708)     53.57621 (18120708)
    52.72085 (18120708)     51.73752 (18120708)
 3861163.4 |     55.26668 (18120708)     54.33202 (18120708)     53.17229 (18120708)
    51.94722 (18120708)     50.62191 (18120708)
 3861134.0 |     54.12564 (18120708)     52.77696 (18120708)     51.28628 (18120708)
    50.21792 (15020502)     49.33109 (15020502)
 3861104.5 |     52.48539 (15020502)     51.40490 (15020502)     50.54283 (16122023)
    49.90771 (16122023)     49.29446 (16122023)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 527
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING4 ***
                                   INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                  L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
```

Y-COORD (METERS)	X-COORD (METERS) 492227.00
3861693.5	42.80126 (19020204)
3861664.1	41.97300 (19022507)
3861634.6	42.42509 (15123001)
3861605.2	43.37292 (15123001)
3861575.7	44.47310 (18011721)
3861546.3	45.56452 (18011721)
3861516.8	45.60432 (18011721)
3861487.4	45.96015 (18011522)
3861457.9	45.76041 (18011522)
3861428.5	45.17814 (16123005)
3861399.0	44.76916 (16123005)
3861369.6	45.37415 (20120318)
3861340.1	46.70217 (20120318)
3861310.7	46.95311 (20120318)
3861281.2	47.79466 (19020808)
3861251.8	49.82082 (18120708)
3861222.3	50.84221 (18120708)
3861192.9	50.68309 (18120708)
3861163.4	49.29628 (18120708)
3861134.0	48.34824 (15020502)
3861104.5	48.54405 (16122023)

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, L0000242    , L0000243    , L0000244    ,
                L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        488802.97   3861310.09      133.31678  (20120306)               488863.58
3861309.29      135.97672  (19120419)
        488847.63   3861279.78      140.21059  (19120419)               488850.82
3861262.24      142.50419  (20120306)
        488810.14   3861261.44      142.90211  (16120117)               488810.94
3861289.36      136.97395  (16120117)
        488819.72   3861306.90      134.63323  (20120306)               488816.53
3861235.92      146.30715  (16120117)
        488841.25   3861126.66      170.19577  (16010123)               488879.53
3861121.88      174.50296  (16120421)
        488913.82   3861121.08      178.77555  (16120117)               488925.79
3861092.37      188.65943  (16120117)
        488920.03   3861067.49      197.08633  (16120421)               488996.74
3861113.92      184.33157  (18020417)
        488974.03   3861097.77      192.34173  (19120419)               488931.63
3860976.64      220.84230  (16012202)
        488935.67   3861034.68      208.16326  (16010123)               488959.90
3861061.43      206.48954  (16120117)
        489165.81   3861208.80      159.31506  (16121423)               489317.74
3861109.28      189.83410  (16122819)
        489385.87   3861014.75      206.10841  (15010420)               489372.24
3861112.69      181.06883  (19121703)
        489420.79   3861106.73      193.71139  (15010420)               489436.12
3861037.74      209.37480  (15010420)
        489488.07   3861036.89      211.74406  (19010903)               489473.59
3861110.99      187.29571  (19121219)
        489431.01   3861167.20      180.72545  (15010420)               489662.66
3860915.95      263.35628  (16122718)
        489644.78   3861076.07      191.35942  (18120822)               489659.26
3861099.06      184.88313  (19122119)
        489735.91   3861020.71      220.10008  (16122718)               489700.14
3861029.23      203.80365  (16122718)
        489708.65   3861062.44      192.03062  (19122222)               489779.34
3861099.06      193.68694  (16122718)
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        489835.95   3859138.59      135.23520  (16010405)                489885.95
3859138.59      139.35559  (16010405)
        489935.95   3859138.59      133.25672  (16122521)                489985.95
3859138.59      130.40464  (20011520)
        490035.95   3859138.59      139.56801  (15121808)                490085.95
3859138.59      138.64178  (15121808)
        490135.95   3859138.59      119.93582  (20103119)                490185.95
3859138.59      115.77841  (20121324)
        490235.95   3859138.59      124.04579  (20121324)                490285.95
3859138.59      113.87445  (20121324)
        490335.95   3859138.59      102.20134  (15020404)                490385.95
3859138.59       93.10178  (15013024)
        490435.95   3859138.59       88.74792  (15013024)                490485.95
3859138.59       73.45136  (16010120)
        490535.95   3859138.59       63.70184  (16010120)                490585.95
3859138.59       57.90129  (19111222)
        490635.95   3859138.59       48.70376  (19111222)                490685.95
3859138.59       44.39925  (15031607)
        490735.95   3859138.59       40.16714  (15031607)                490785.95
3859138.59       37.76097  (19091124)
        490835.95   3859138.59       32.89051  (19090521)                490885.95
3859138.59       31.90063  (20102217)
        489835.95   3859188.59      145.14670  (16010405)                489885.95
3859188.59      140.71921  (16010405)
        489935.95   3859188.59      139.52692  (16122521)                489985.95
3859188.59      139.03115  (15121808)
        490035.95   3859188.59      151.12011  (15121808)                490085.95
3859188.59      141.10328  (15121808)
        490135.95   3859188.59      122.71115  (19010405)                490185.95
3859188.59      128.51007  (20121324)
        490235.95   3859188.59      125.17903  (20121324)                490285.95
3859188.59      113.40554  (15020404)
        490335.95   3859188.59      109.76652  (15013024)                490385.95
3859188.59      105.35802  (15013024)
        490435.95   3859188.59       85.07617  (16010120)                490485.95
3859188.59       75.48152  (16010120)
        490535.95   3859188.59       66.99912  (19111222)                490585.95
3859188.59       61.36776  (19111222)
        490635.95   3859188.59       49.55701  (15031607)                490685.95
3859188.59       41.50345  (15031607)
        490735.95   3859188.59       37.07010  (19091124)                490785.95
3859188.59       33.47081  (19090521)
        490835.95   3859188.59       35.14456  (20102217)                490885.95
3859188.59       35.70809  (20102217)
        489835.95   3859238.59      152.28536  (16010405)                489885.95
3859238.59      142.76098  (16122521)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 ,
L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 ,
L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 ,
L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
489935.95	3859238.59	142.20469	(20011520)	489985.95	3859238.59	152.01787	(15121808)
490035.95	3859238.59	154.06184	(15121808)	490085.95	3859238.59	132.85434	(15121808)
490135.95	3859238.59	131.41731	(20121324)	490185.95	3859238.59	137.20985	(20121324)
490235.95	3859238.59	123.61367	(15020404)	490285.95	3859238.59	120.23091	(15020404)
490335.95	3859238.59	118.01824	(15013024)	490385.95	3859238.59	103.67469	(15013024)
490435.95	3859238.59	98.22934	(16010120)	490485.95	3859238.59	86.65733	(19111222)
490535.95	3859238.59	77.91562	(19111222)	490585.95	3859238.59	59.00699	(19111222)
490635.95	3859238.59	51.61102	(16080704)	490685.95	3859238.59	48.49096	(19091124)
490735.95	3859238.59	40.25069	(16011020)	490785.95	3859238.59	41.22380	(20102217)
490835.95	3859238.59	41.54118	(20102217)	490885.95	3859238.59	39.18681	(19021208)
489835.95	3859288.59	157.28764	(16010405)	489885.95	3859288.59	151.81907	(16122521)
489935.95	3859288.59	151.96250	(15121808)	489985.95	3859288.59	161.72066	(15121808)
490035.95	3859288.59	151.99282	(15121808)	490085.95			

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3859288.59      133.71401  (19010405)
        490135.95   3859288.59      143.49271  (20121324)                490185.95
3859288.59      137.68308  (20121324)
        490235.95   3859288.59      136.37741  (15020404)                490285.95
3859288.59      135.02086  (15013024)
        490335.95   3859288.59      122.19458  (15013024)                490385.95
3859288.59      112.13615  (16010120)
        490435.95   3859288.59       96.12470  (19111222)                490485.95
3859288.59       96.59643  (19111222)
        490535.95   3859288.59       87.15572  (19111222)                490585.95
3859288.59       71.16163  (16031518)
        490635.95   3859288.59       66.00437  (20120808)                490685.95
3859288.59       57.87924  (20091005)
        490735.95   3859288.59       51.61861  (15101221)                490785.95
3859288.59       48.05013  (20102217)
        490835.95   3859288.59       50.19591  (19021208)                490885.95
3859288.59       47.98582  (19021208)
        489835.95   3859338.59      159.32664  (16010405)                489885.95
3859338.59      158.28551  (16122521)
        489935.95   3859338.59      169.47489  (15121808)                489985.95
3859338.59      170.76726  (15121808)
        490035.95   3859338.59      145.07243  (15121808)                490085.95
3859338.59      147.19730  (20121324)
        490135.95   3859338.59      149.03407  (20121324)                490185.95
3859338.59      148.24797  (15020404)
        490235.95   3859338.59      146.38549  (15013024)                490285.95
3859338.59      142.78390  (15013024)
        490335.95   3859338.59      131.16399  (16010120)                490385.95
3859338.59      123.63668  (16010120)
        490435.95   3859338.59      117.76312  (19111222)                490485.95
3859338.59      101.33531  (19111222)
        490535.95   3859338.59       98.31893  (20022004)                490585.95
3859338.59       91.25582  (20120808)
        490635.95   3859338.59       80.15214  (19120107)                490685.95
3859338.59       70.66909  (19120107)
        490735.95   3859338.59       58.84176  (19120424)                490785.95
3859338.59       60.83976  (19021208)
        490835.95   3859338.59       59.26594  (19021208)                490885.95
3859338.59       48.57666  (15092422)
        489835.95   3859388.59      164.88657  (16122521)                489885.95
3859388.59      166.47901  (15121808)
        489935.95   3859388.59      185.57849  (15121808)                489985.95
3859388.59      170.64802  (15121808)
        490035.95   3859388.59      148.35400  (19010405)                490085.95
3859388.59      157.56937  (20121324)
        490135.95   3859388.59      155.26434  (15020404)                490185.95
3859388.59      156.85932  (15020404)
        490235.95   3859388.59      156.78330  (15013024)                490285.95
3859388.59      146.88831  (16010120)
        490335.95   3859388.59      144.24680  (16010120)                490385.95
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3859388.59   136.04682 (19111222)
        490435.95   3859388.59   123.65267 (19111222)   490485.95
3859388.59   124.70725 (20022004)
        490535.95   3859388.59   118.63366 (20120808)   490585.95
3859388.59   102.80827 (19120107)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
                                 INCLUDING SOURCE(S):   L0000232   , L0000233 , L0000234   , L0000235   , L0000236   ,
                 L0000237   , L0000238   , L0000239   , L0000240   , L0000241 , L0000242   , L0000243   , L0000244   ,
                 L0000245   , L0000246   , L0000247   , L0000248   , L0000249 , L0000250   , L0000251   , L0000252   ,
                 L0000253   , L0000254   , L0000255   , L0000256   , L0000257 , L0000258   , L0000259   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        490635.95   3859388.59   95.92786 (19120107)   490685.95
3859388.59   77.73032 (19122324)
        490735.95   3859388.59   68.40817 (19021208)   490785.95
3859388.59   64.54756 (19021208)
        490835.95   3859388.59   64.66507 (20112919)   490885.95
3859388.59   62.94766 (18011120)
        489835.95   3859438.59   176.03249 (16122521)   489885.95
3859438.59   189.54096 (15121808)
        489935.95   3859438.59   192.14773 (15121808)   489985.95
3859438.59   162.37360 (15121808)
        490035.95   3859438.59   163.43956 (20121324)   490085.95
3859438.59   159.75998 (20121324)
        490135.95   3859438.59   168.91731 (15020404)   490185.95
3859438.59   167.28465 (15013024)
        490235.95   3859438.59   155.17269 (16010120)   490285.95
3859438.59   158.76799 (16010120)

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        490335.95   3859438.59      148.90066  (19111222)                490385.95
3859438.59      137.91983  (19111222)
        490435.95   3859438.59      143.28600  (20022004)                490485.95
3859438.59      139.70781  (20120808)
        490535.95   3859438.59      125.81301  (19120107)                490585.95
3859438.59      117.57776  (19120107)
        490635.95   3859438.59      106.74014  (19122324)                490685.95
3859438.59       93.96046  (18031023)
        490735.95   3859438.59       85.02782  (16092619)                490785.95
3859438.59       77.73355  (20112919)
        490835.95   3859438.59       82.46225  (18011120)                490885.95
3859438.59       82.43051  (18011120)
        490085.95   3859488.59      177.76678  (15020404)                490135.95
3859488.59      175.12602  (15013024)
        490185.95   3859488.59      168.12333  (15013024)                490235.95
3859488.59      169.47453  (16010120)
        490285.95   3859488.59      160.90984  (15020520)                490335.95
3859488.59      150.61930  (20022004)
        490385.95   3859488.59      158.69326  (20022004)                490435.95
3859488.59      158.96275  (20120808)
        490485.95   3859488.59      144.70650  (19120107)                490535.95
3859488.59      135.50920  (19120107)
        490585.95   3859488.59      126.97905  (19122324)                490635.95
3859488.59      115.06475  (18031023)
        490685.95   3859488.59      104.11266  (16092619)                490735.95
3859488.59      103.02728  (18011120)
        490785.95   3859488.59      103.97687  (18011120)                490835.95
3859488.59       98.95703  (18011120)
        490885.95   3859488.59       87.60698  (16120720)                490085.95
3859538.59      184.05006  (15020404)
        490135.95   3859538.59      180.14688  (15013024)                490185.95
3859538.59      177.89328  (16010120)
        490235.95   3859538.59      172.44654  (15020520)                490285.95
3859538.59      164.19660  (15020520)
        490335.95   3859538.59      171.75282  (20120808)                490385.95
3859538.59      174.32708  (20120808)
        490435.95   3859538.59      160.48301  (19120107)                490485.95
3859538.59      149.58362  (19120107)
        490535.95   3859538.59      144.61441  (19122324)                490585.95
3859538.59      129.70077  (18031023)
        490635.95   3859538.59      120.34229  (20112919)                490685.95
3859538.59      126.79796  (18011120)
        490735.95   3859538.59      124.38227  (18011120)                490785.95
3859538.59      113.25092  (18011120)
        490835.95   3859538.59      107.08030  (16120720)                490885.95
3859538.59       97.78677  (16122021)
        490135.95   3859588.59      184.77934  (16010120)                490185.95
3859588.59      181.64595  (15020520)
        490235.95   3859588.59      175.45694  (15020520)                490285.95
3859588.59      183.13916  (20120808)
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233
, L0000234 , L0000235 , L0000236 ,
L0000237 , L0000238 , L0000239 , L0000240 , L0000241
, L0000242 , L0000243 , L0000244 ,
L0000245 , L0000246 , L0000247 , L0000248 , L0000249
, L0000250 , L0000251 , L0000252 ,
L0000253 , L0000254 , L0000255 , L0000256 , L0000257
, L0000258 , L0000259 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490235.95	3859638.59	194.31844	(20120808)	490285.95	3859638.59	192.57688	(20120808)
490335.95	3859638.59	181.02779	(19120107)	490385.95	3859638.59	173.54187	(19122324)
490435.95	3859638.59	165.87349	(19122324)	490485.95	3859638.59	147.54211	(16092619)
490535.95	3859638.59	153.51921	(18011120)	490585.95			

3859638.59 158.16134 (18011120)
490635.95 3859638.59 151.03016 (19020802) 490685.95
3859638.59 147.47517 (16120720)
490735.95 3859638.59 139.85601 (16122021) 490785.95
3859638.59 143.89058 (19120108)
490835.95 3859638.59 144.10960 (19120108) 490885.95
3859638.59 134.41227 (19120108)
490135.95 3859688.59 197.94431 (15020520) 490185.95
3859688.59 205.90726 (20120808)
490235.95 3859688.59 203.90173 (20120808) 490285.95
3859688.59 193.65285 (19120107)
490335.95 3859688.59 184.22949 (19122324) 490385.95
3859688.59 166.00664 (19122324)
490435.95 3859688.59 156.84334 (20122020) 490485.95
3859688.59 164.81901 (18011120)
490535.95 3859688.59 166.13415 (18011120) 490585.95
3859688.59 163.86162 (16120720)
490635.95 3859688.59 159.08431 (16120720) 490685.95
3859688.59 168.54295 (19120108)
490735.95 3859688.59 171.20701 (19120108) 490785.95
3859688.59 162.00073 (19120108)
490835.95 3859688.59 145.78231 (19120708) 490885.95
3859688.59 135.39659 (19120708)
490085.95 3859738.59 214.43055 (15020520) 490135.95
3859738.59 220.86679 (20120808)
490185.95 3859738.59 213.14435 (20120808) 490235.95
3859738.59 179.06063 (19120107)
490285.95 3859738.59 190.26124 (19122324) 490335.95
3859738.59 166.47495 (19122324)
490385.95 3859738.59 171.80802 (20122020) 490435.95
3859738.59 172.24054 (18011120)
490485.95 3859738.59 177.05096 (19020802) 490535.95
3859738.59 173.05686 (16120720)
490585.95 3859738.59 184.56248 (19120108) 490635.95
3859738.59 195.34227 (19120108)
490685.95 3859738.59 191.74222 (19120108) 490735.95
3859738.59 175.12471 (19120108)
490785.95 3859738.59 160.23856 (19120708) 490835.95
3859738.59 145.56454 (15121006)
490885.95 3859738.59 137.68424 (16010208) 490085.95
3859788.59 239.55877 (20120808)
490135.95 3859788.59 231.65351 (20120808) 490185.95
3859788.59 207.61763 (19120107)
490235.95 3859788.59 181.38877 (19122324) 490285.95
3859788.59 161.17037 (19122324)
490335.95 3859788.59 160.80094 (20122020) 490385.95
3859788.59 156.98730 (19121704)
490435.95 3859788.59 170.23227 (20122119) 490485.95
3859788.59 185.53586 (19120108)
490535.95 3859788.59 207.52482 (19120108) 490585.95

3859788.59   208.23239 (19120108)
        490635.95   3859788.59   198.82660 (19120108)   490685.95
3859788.59   183.84492 (19120708)
        490735.95   3859788.59   165.45489 (15121006)   490785.95
3859788.59   159.21367 (16010208)
        490835.95   3859788.59   162.11804 (16010208)   490885.95
3859788.59   153.36755 (16010208)
        490085.95   3859838.59   252.01637 (20120808)   490135.95
3859838.59   225.29722 (19122324)
        490185.95   3859838.59   207.78684 (19122324)   490235.95
3859838.59   184.65444 (20122020)
        490285.95   3859838.59   174.48263 (20122020)   490335.95
3859838.59   172.02805 (15121821)
        490385.95   3859838.59   167.46895 (20122808)   490435.95
3859838.59   174.03240 (19120108)
        490485.95   3859838.59   174.43813 (19120108)   490535.95
3859838.59   204.64983 (19120708)
        490585.95   3859838.59   199.84674 (19120708)   490635.95
3859838.59   180.00390 (19120708)
        490685.95   3859838.59   174.92008 (16010208)   490735.95
3859838.59   179.71557 (16010208)
        490785.95   3859838.59   173.69116 (16010208)   490835.95
3859838.59   159.28805 (16010208)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
                                    INCLUDING SOURCE(S):   L0000232   , L0000233 , L0000234   , L0000235   , L0000236   ,
                 L0000237   , L0000238   , L0000239   , L0000240   , L0000241 , L0000242   , L0000243   , L0000244   ,
                 L0000245   , L0000246   , L0000247   , L0000248   , L0000249 , L0000250   , L0000251   , L0000252   ,
                 L0000253   , L0000254   , L0000255   , L0000256   , L0000257 , L0000258   , L0000259   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)

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        490835.95   3859988.59      155.77148  (15010721)                490885.95
3859988.59      123.77185  (15010721)
        490135.95   3860038.59      282.83545  (19120108)                490185.95
3860038.59      276.63305  (19120708)
        490235.95   3860038.59      254.77213  (19120708)                490285.95
3860038.59      232.26794  (16010208)
        490335.95   3860038.59      226.18540  (16010208)                490385.95
3860038.59      209.73908  (16010208)
        490435.95   3860038.59      192.39733  (18120308)                490485.95
3860038.59      183.50671  (18121507)
        490535.95   3860038.59      176.39221  (18011822)                490585.95
3860038.59      165.67799  (15010721)
        490635.95   3860038.59      161.74038  (15010721)                490685.95
3860038.59      153.94708  (15010721)
        490735.95   3860038.59      142.99772  (15010721)                490785.95
3860038.59      137.83686  (20122520)
        490835.95   3860038.59      132.26313  (20122520)                490885.95
3860038.59      125.02366  (20122520)
        490135.95   3860088.59      299.82132  (19120708)                490185.95
3860088.59      269.84882  (16010208)
        490235.95   3860088.59      261.29577  (16010208)                490285.95
3860088.59      239.24449  (18120308)
        490335.95   3860088.59      220.69509  (18121507)                490385.95
3860088.59      211.48885  (18011822)
        490435.95   3860088.59      199.04685  (18011822)                490485.95
3860088.59      191.75988  (15010721)
        490535.95   3860088.59      182.25561  (15010721)                490585.95
3860088.59      169.05172  (15010721)
        490635.95   3860088.59      162.47219  (20122520)                490685.95
3860088.59      154.15694  (20122520)
        490735.95   3860088.59      146.33329  (15021320)                490785.95
3860088.59      142.50329  (15021320)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 533
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING4 ***
                                 INCLUDING SOURCE(S):     L0000232    , L0000233
, L0000234    , L0000235    , L0000236    ,
                 L0000237    , L0000238    , L0000239    , L0000240    , L0000241
, L0000242    , L0000243    , L0000244    ,
                 L0000245    , L0000246    , L0000247    , L0000248    , L0000249
, L0000250    , L0000251    , L0000252    ,
                 L0000253    , L0000254    , L0000255    , L0000256    , L0000257
, L0000258    , L0000259    ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490835.95	3860088.59	136.91963	(15021320)	490885.95	3860088.59	129.88680	(15021320)
490135.95	3860138.59	307.52267	(16010208)	490185.95	3860138.59	276.99561	(18120308)
490235.95	3860138.59	257.36411	(18011822)	490285.95	3860138.59	244.56895	(18011822)
490335.95	3860138.59	231.62925	(15010721)	490385.95	3860138.59	219.89821	(15010721)
490435.95	3860138.59	202.52784	(15010721)	490485.95	3860138.59	193.61938	(20122520)
490535.95	3860138.59	181.23598	(20122520)	490585.95	3860138.59	174.82608	(15021320)
490635.95	3860138.59	167.80793	(15021320)	490685.95	3860138.59	158.37610	(15021320)
490735.95	3860138.59	150.53602	(20012419)	490785.95	3860138.59	145.99940	(20012419)
490835.95	3860138.59	140.11230	(20012419)	490885.95	3860138.59	133.19814	(20012419)
490935.95	3860138.59	127.18392	(18011319)	490985.95	3860138.59	121.74901	(18011319)
491035.95	3860138.59	116.23829	(19013107)	490135.95	3860188.59	309.08393	(18011822)
490185.95	3860188.59	287.44306	(15010721)	490235.95	3860188.59	272.46708	(15010721)
490285.95	3860188.59	248.52175	(15010721)	490335.95	3860188.59	235.74200	(20122520)
490385.95	3860188.59	220.56401	(15021320)	490435.95	3860188.59	212.11410	(15021320)
490485.95	3860188.59	199.37677	(15021320)	490535.95	3860188.59	187.99505	(20012419)
490585.95	3860188.59	180.84412	(20012419)	490635.95	3860188.59	171.69218	(20012419)
490685.95	3860188.59	161.94145	(18011319)	490735.95	3860188.59	154.07659	(18011319)
490785.95	3860188.59	146.05014	(19013107)	490835.95	3860188.59	140.06324	(19013107)
490885.95	3860188.59	133.03690	(19013107)	490935.95	3860188.59	127.59195	(15012208)
490985.95	3860188.59	122.55107	(15012208)	491035.95			

3860188.59   116.90308 (15012208)
        491085.95   3860188.59   110.80542 (15012208)   491135.95
3860188.59   106.91264 (16020401)
        490135.95   3860238.59   316.97420 (20122520)   490185.95
3860238.59   295.13892 (20122520)
        490235.95   3860238.59   278.81237 (15021320)   490285.95
3860238.59   261.48764 (15021320)
        490335.95   3860238.59   244.33291 (20012419)   490385.95
3860238.59   232.54804 (20012419)
        490435.95   3860238.59   217.82116 (20012419)   490485.95
3860238.59   204.54473 (18011319)
        490535.95   3860238.59   191.85858 (19013107)   490585.95
3860238.59   182.17244 (19013107)
        490635.95   3860238.59   171.95819 (15012208)   490685.95
3860238.59   164.28438 (15012208)
        490735.95   3860238.59   155.77643 (15012208)   490785.95
3860238.59   146.82236 (15012208)
        490835.95   3860238.59   140.19027 (16020401)   490885.95
3860238.59   133.51841 (16020401)
        490935.95   3860238.59   128.03770 (20122021)   490985.95
3860238.59   123.72258 (16021621)
        491035.95   3860238.59   118.34030 (16021621)   491085.95
3860238.59   112.53568 (20122021)
        491135.95   3860238.59   107.31044 (20122021)   490135.95
3860288.59   336.35764 (20012419)
        490185.95   3860288.59   314.71923 (20012419)   490235.95
3860288.59   289.17576 (18011319)
        490285.95   3860288.59   268.23620 (18011319)   490335.95
3860288.59   251.22705 (19013107)
        490385.95   3860288.59   235.20091 (15012208)   490435.95
3860288.59   221.06372 (15012208)
        490485.95   3860288.59   205.96182 (15012208)   490535.95
3860288.59   194.46952 (16020401)
        490585.95   3860288.59   183.52299 (20122021)   490635.95
3860288.59   174.57055 (20122021)
        490685.95   3860288.59   165.64179 (20122021)   490735.95
3860288.59   156.64793 (20122021)
        490785.95   3860288.59   147.91014 (20122021)   490835.95
3860288.59   139.19946 (20122021)
        490885.95   3860288.59   131.26712 (20120821)   490935.95
3860288.59   126.20800 (20120821)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: LOADING4 ***
                                INCLUDING SOURCE(S):   L0000232   , L0000233
, L0000234   , L0000235   , L0000236   ,
                 L0000237   , L0000238   , L0000239   , L0000240   , L0000241
, L0000242   , L0000243   , L0000244   ,
                 L0000245   , L0000246   , L0000247   , L0000248   , L0000249
, L0000250   , L0000251   , L0000252   ,
                 L0000253   , L0000254   , L0000255   , L0000256   , L0000257
, L0000258   , L0000259   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        490985.95   3860288.59   121.87190 (20120821)   491035.95
3860288.59   116.92346 (20120821)
        491085.95   3860288.59   111.83538 (20120821)   490135.95
3860338.59   348.84283 (15012208)
        490185.95   3860338.59   318.65893 (16020401)   490235.95
3860338.59   294.58049 (16020401)
        490285.95   3860338.59   275.44604 (20122021)   490335.95
3860338.59   256.60858 (20122021)
        490385.95   3860338.59   238.12296 (20122021)   490435.95
3860338.59   220.38098 (20122021)
        490485.95   3860338.59   204.96267 (20120821)   490535.95
3860338.59   194.41847 (20120821)
        490585.95   3860338.59   183.63788 (20120821)   490635.95
3860338.59   173.40292 (20120821)
        490685.95   3860338.59   163.71054 (20120821)   490735.95
3860338.59   154.48807 (20120821)
        490785.95   3860338.59   146.20263 (20120821)   490835.95
3860338.59   139.15530 (15021823)
        490885.95   3860338.59   133.61635 (15021823)   490935.95
3860338.59   128.14074 (15021823)
        490985.95   3860338.59   122.80094 (15021823)   491035.95
3860338.59   117.94201 (15021823)
        491085.95   3860338.59   113.20660 (15021823)   490135.95
3860388.59   352.25143 (20120821)
        490185.95   3860388.59   322.34194 (20120821)   490235.95
3860388.59   294.83111 (20120821)
        490285.95   3860388.59   274.60338 (15021823)   490335.95
3860388.59   257.38620 (15021823)
        490385.95   3860388.59   241.28736 (15021823)   490435.95
3860388.59   226.33711 (15021823)

490485.95 3860388.59 212.53955 (15021823) 490535.95 3860388.59 199.52878 (15021823)
490585.95 3860388.59 187.52221 (15021823) 490635.95 3860388.59 176.25327 (15021823)
490685.95 3860388.59 166.21888 (15021823) 490735.95 3860388.59 156.65434 (15021823)
490785.95 3860388.59 147.99935 (15021823) 490835.95 3860388.59 141.54946 (15012508)
490135.95 3860438.59 368.17430 (15012508) 490185.95 3860438.59 337.01975 (15012508)
490235.95 3860438.59 309.88073 (15012508) 490285.95 3860438.59 286.08291 (15012508)
490335.95 3860438.59 264.98346 (15012508) 490385.95 3860438.59 246.34047 (15012508)
490435.95 3860438.59 229.56954 (15012508) 490485.95 3860438.59 214.35873 (15012508)
490535.95 3860438.59 200.87815 (15012508) 490585.95 3860438.59 188.45277 (15012508)
490635.95 3860438.59 177.18356 (15012508) 490685.95 3860438.59 167.29654 (19011605)
490735.95 3860438.59 158.76520 (19011605) 490785.95 3860438.59 150.61309 (19011605)
490835.95 3860438.59 143.64411 (19011605) 490135.95 3860488.59 353.44230 (15121708)
490185.95 3860488.59 319.73382 (15121708) 490235.95 3860488.59 290.60916 (15121708)
490285.95 3860488.59 267.71372 (16010403) 490335.95 3860488.59 249.18944 (16010403)
490385.95 3860488.59 232.80576 (16010403) 490435.95 3860488.59 218.51369 (16010403)
490485.95 3860488.59 204.87434 (16010403) 490535.95 3860488.59 192.40551 (16010403)
490585.95 3860488.59 181.18203 (16010403) 490635.95 3860488.59 171.37524 (16010403)
490685.95 3860488.59 161.98806 (16010403) 490735.95 3860488.59 153.89276 (16010403)
490785.95 3860488.59 146.38800 (16010403) 490135.95 3860538.59 390.87880 (20120308)
490185.95 3860538.59 357.80619 (20120308) 490235.95 3860538.59 326.71957 (20120308)
490285.95 3860538.59 298.70167 (20120308) 490335.95 3860538.59 273.81786 (20120308)
490385.95 3860538.59 251.81415 (20120308) 490435.95 3860538.59 234.87201 (15121708)
490485.95 3860538.59 220.44028 (15121708) 490535.95 3860538.59 208.01256 (15121708)
490585.95 3860538.59 193.62110 (15121708) 490635.95 3860538.59 181.72184 (15121708)
490685.95 3860538.59 171.23705 (15121708) 490735.95 3860538.59 161.34227 (15121708)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
INCLUDING SOURCE(S): L0000232 , L0000233 , L0000234 , L0000235 , L0000236 ,
L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 ,
L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 ,
L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490785.95	3860538.59	152.51049	(15121708)	490135.95	3860588.59	333.66819	(19022503)
490185.95	3860588.59	302.69636	(16120801)	490235.95	3860588.59	285.31739	(18120821)
490285.95	3860588.59	274.18591	(20120308)	490335.95	3860588.59	262.65235	(20120308)
490385.95	3860588.59	250.37419	(20120308)	490435.95	3860588.59	240.38344	(20120308)
490485.95	3860588.59	228.58528	(20120308)	490535.95	3860588.59	216.32391	(20120308)
490585.95	3860588.59	201.25838	(20120308)	490635.95	3860588.59	190.02562	(20120308)
490685.95	3860588.59	179.11483	(20120308)	490735.95	3860588.59	168.90257	(20120308)
490785.95	3860588.59	159.03591	(20120308)	490135.95	3860638.59	342.70409	(18120708)
490185.95	3860638.59	305.51671	(15020408)	490235.95	3860638.59	285.03565	(15020408)
490285.95	3860638.59	262.43246	(15020408)	490335.95	3860638.59	239.73863	(15020408)
490385.95	3860638.59	221.60940	(19022503)	490435.95			

3860638.59 207.42587 (19022503)
490485.95 3860638.59 195.13919 (16120801) 490535.95
3860638.59 185.82166 (18120821)
490585.95 3860638.59 176.76677 (18120821) 490635.95
3860638.59 169.38645 (20120308)
490685.95 3860638.59 164.54096 (20120308) 490735.95
3860638.59 158.78886 (20120308)
490785.95 3860638.59 153.57980 (20120308) 490135.95
3860688.59 314.44935 (20120318)
490185.95 3860688.59 302.62928 (18120708) 490235.95
3860688.59 290.44593 (18120708)
490285.95 3860688.59 265.60673 (18120708) 490335.95
3860688.59 243.85126 (18120708)
490385.95 3860688.59 220.04109 (16122023) 490435.95
3860688.59 210.33437 (15020408)
490485.95 3860688.59 198.06622 (15020408) 490535.95
3860688.59 185.42111 (15020408)
490585.95 3860688.59 171.93534 (15020408) 490635.95
3860688.59 160.46944 (19022503)
490685.95 3860688.59 153.50084 (19022503) 490735.95
3860688.59 145.23710 (19022503)
490785.95 3860688.59 138.71674 (16120801) 490135.95
3860738.59 299.02373 (18022523)
490185.95 3860738.59 276.58992 (18011522) 490235.95
3860738.59 250.79385 (18011522)
490285.95 3860738.59 239.31053 (20120318) 490335.95
3860738.59 228.23897 (18120708)
490385.95 3860738.59 224.55989 (18120708) 490435.95
3860738.59 217.52759 (18120708)
490485.95 3860738.59 202.98955 (18120708) 490535.95
3860738.59 184.71083 (18120708)
490585.95 3860738.59 167.97321 (15020502) 490635.95
3860738.59 161.29409 (15020408)
490685.95 3860738.59 155.99972 (15020408) 490735.95
3860738.59 149.19891 (15020408)
490785.95 3860738.59 141.68132 (15020408) 490135.95
3860788.59 270.58935 (18020124)
490185.95 3860788.59 249.53105 (19020204) 490235.95
3860788.59 243.05142 (18022523)
490285.95 3860788.59 230.79400 (18011721) 490335.95
3860788.59 216.87467 (18011522)
490385.95 3860788.59 200.45873 (18120921) 490435.95
3860788.59 192.56249 (20120318)
490485.95 3860788.59 185.27670 (20120318) 490535.95
3860788.59 180.72576 (18120708)
490585.95 3860788.59 173.76011 (18120708) 490635.95
3860788.59 165.94853 (18120708)
490685.95 3860788.59 156.90818 (18120708) 490735.95
3860788.59 147.08161 (18120708)
490785.95 3860788.59 135.70017 (15020502) 489985.95

3860838.59   255.55587 (18020819)
        490035.95   3860838.59   281.32375 (18020819)   490085.95
3860838.59   276.01414 (18020819)
        490135.95   3860838.59   260.39820 (15011619)   490185.95
3860838.59   247.05152 (18011122)
        490235.95   3860838.59   228.19033 (18020124)   490285.95
3860838.59   213.59564 (19020204)
        490335.95   3860838.59   202.16423 (18022523)   490385.95
3860838.59   197.49907 (18011721)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING4 ***
                                 INCLUDING SOURCE(S):   L0000232   , L0000233 , L0000234   , L0000235   , L0000236   ,
                 L0000237   , L0000238   , L0000239   , L0000240   , L0000241 , L0000242   , L0000243   , L0000244   ,
                 L0000245   , L0000246   , L0000247   , L0000248   , L0000249 , L0000250   , L0000251   , L0000252   ,
                 L0000253   , L0000254   , L0000255   , L0000256   , L0000257 , L0000258   , L0000259   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        490435.95   3860838.59   188.06732 (18011522)   490485.95
3860838.59   177.88978 (18011522)
        490535.95   3860838.59   164.43550 (18120921)   490585.95
3860838.59   157.62012 (20120318)
        490635.95   3860838.59   151.35609 (20120318)   490685.95
3860838.59   146.37734 (18120708)
        490735.95   3860838.59   145.34473 (18120708)   490785.95
3860838.59   141.60069 (18120708)
        490835.95   3860838.59   135.68878 (18120708)   489835.95
3860888.59   260.33305 (16011801)
        489885.95   3860888.59   253.66164 (16022523)   489935.95
3860888.59   243.33771 (19120601)

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        489985.95   3860888.59      234.44186  (16021120)              490035.95
3860888.59      221.89899  (18011823)
        490085.95   3860888.59      235.90160  (18020819)              490135.95
3860888.59      246.54465  (18020819)
        490185.95   3860888.59      232.48522  (18020819)              490235.95
3860888.59      220.93640  (15011619)
        490285.95   3860888.59      210.52757  (18011122)              490335.95
3860888.59      195.67454  (18020124)
        490385.95   3860888.59      184.89435  (19020204)              490435.95
3860888.59      173.25473  (15123001)
        490485.95   3860888.59      171.25472  (18011721)              490535.95
3860888.59      164.85824  (18011721)
        490585.95   3860888.59      156.32108  (18011522)              490635.95
3860888.59      146.61848  (18011522)
        490685.95   3860888.59      136.71705  (18120921)              490735.95
3860888.59      132.16247  (20120318)
        490785.95   3860888.59      128.25849  (20120318)              490835.95
3860888.59      123.10291  (20120318)
        490885.95   3860888.59      123.09073  (18120708)              490935.95
3860888.59      121.18220  (18120708)
        489835.95   3860938.59      239.23335  (16122308)              489885.95
3860938.59      230.07072  (16011801)
        489935.95   3860938.59      226.04385  (16022523)              489985.95
3860938.59      217.23330  (19120601)
        490035.95   3860938.59      207.73252  (16021120)              490085.95
3860938.59      197.60159  (18011823)
        490135.95   3860938.59      188.48678  (18020819)              490185.95
3860938.59      209.59573  (18020819)
        490235.95   3860938.59      211.84490  (18020819)              490285.95
3860938.59      197.39166  (18020819)
        490335.95   3860938.59      190.30008  (15011619)              490385.95
3860938.59      182.76968  (18011122)
        490435.95   3860938.59      172.17040  (18011122)              490485.95
3860938.59      162.64686  (19020204)
        490535.95   3860938.59      152.13893  (19020204)              490585.95
3860938.59      147.27178  (18022523)
        490635.95   3860938.59      144.35928  (18011721)              490685.95
3860938.59      137.58745  (18011721)
        490735.95   3860938.59      131.74280  (18011522)              490785.95
3860938.59      124.16110  (18011522)
        490835.95   3860938.59      117.44219  (18120921)              490885.95
3860938.59      114.42721  (20120318)
        490935.95   3860938.59      111.91486  (20120318)              489835.95
3860988.59      228.04716  (16122308)
        489885.95   3860988.59      214.38811  (16122222)              489935.95
3860988.59      206.71880  (16011801)
        489985.95   3860988.59      203.78668  (16022523)              490035.95
3860988.59      194.58294  (19120601)
        490085.95   3860988.59      184.18473  (16021120)              490135.95
3860988.59      178.36601  (16021120)
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3861038.59      174.73134  (19120601)
        490135.95   3861038.59      166.29547  (19120601)                490185.95
3861038.59      162.59016  (16021120)
        490235.95   3861038.59      155.56296  (18011823)                490285.95
3861038.59      147.34762  (15120519)
        490335.95   3861038.59      161.16795  (18020819)                490385.95
3861038.59      167.90611  (18020819)
        490435.95   3861038.59      163.32199  (18020819)                490485.95
3861038.59      150.28655  (15011619)
        490535.95   3861038.59      148.83774  (15011619)                490585.95
3861038.59      142.26788  (18011122)
        490635.95   3861038.59      134.65817  (18011122)                490685.95
3861038.59      127.05721  (18020124)
        490735.95   3861038.59      121.30735  (19020204)                490785.95
3861038.59      113.92754  (15123001)
        490835.95   3861038.59      112.44767  (18011721)                490885.95
3861038.59      111.38002  (18011721)
        490935.95   3861038.59      107.85808  (18011721)                489835.95
3861088.59      190.78656  (19122908)
        489885.95   3861088.59      189.22595  (16010323)                489935.95
3861088.59      187.10882  (16122308)
        489985.95   3861088.59      176.77022  (16011801)                490035.95
3861088.59      167.51208  (16011801)
        490085.95   3861088.59      167.06859  (16022523)                490135.95
3861088.59      158.29854  (19120601)
        490185.95   3861088.59      154.63640  (19120601)                490235.95
3861088.59      148.73510  (16021120)
        490285.95   3861088.59      141.05632  (18011823)                490335.95
3861088.59      135.41702  (18011823)
        490385.95   3861088.59      137.93025  (18020819)                490435.95
3861088.59      149.12057  (18020819)
        490485.95   3861088.59      150.81824  (18020819)                490535.95
3861088.59      144.15866  (18020819)
        490585.95   3861088.59      134.09803  (15011619)                490635.95
3861088.59      131.80998  (15011619)
        490685.95   3861088.59      126.23738  (18011122)                490735.95
3861088.59      120.52315  (18011122)
        490785.95   3861088.59      114.60030  (18020124)                490835.95
3861088.59      109.92793  (19020204)
        490885.95   3861088.59      103.60248  (19020204)                490935.95
3861088.59      101.25858  (15123001)
        489020.79   3862564.85       50.55566  (15020218)                489043.15
3862350.21       57.15375  (18010720)
        489072.96   3862287.60       60.22956  (15020218)                488980.55
3862078.92       67.92519  (19122903)
        489037.19   3862822.72       46.95924  (20022108)                489120.66
3863016.49       50.81080  (20022108)
        489037.19   3863350.37       46.85247  (20022108)

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 , L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 , L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 , L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489237.26	489256.56	489275.86	489295.16	489314.46
3859957.1	339.08738 (19121917)	351.13733 (16012217)	357.85325 (20122517)	357.39055 (20122517)	347.93539 (20122517)
3859937.6	313.37386 (16012217)	345.99171 (16012217)	349.81474 (20122517)	347.21513 (20122517)	335.33471 (20122517)
3859918.2	307.99941 (16012217)	339.00574 (16012217)	340.91418 (20122517)	335.05054 (20122517)	321.40518 (20122517)
3859898.8	304.43787 (16012217)	333.75315 (16012217)	333.09348 (20122517)	324.45405 (20122517)	316.12128 (18010221)
3859879.4	303.95207 (16012217)	320.40951 (16012217)	317.00444 (16012217)	315.90361 (16012217)	314.79329 (18122220)
3859860.0	297.00951 (16012217)	306.61937 (16012217)	307.49874 (16012217)	303.61403 (20122517)	304.78910 (18122220)
3859840.5	289.21303 (16012217)	299.73232 (16012217)	303.43558 (16012217)	299.03311 (18122220)	296.72409 (18010221)
3859821.1	280.65013 (16012217)	299.28350 (16012217)	293.68182 (20122517)	288.82579 (18122220)	291.61105 (18010221)
3859801.7	278.21473 (16012217)	294.00818 (16012217)	283.52807 (18122220)	281.09922 (18010221)	285.42225 (18010221)
3859782.3	276.71596 (16012217)	281.76160 (16012217)	277.29811 (18122220)	275.56541 (18010221)	278.67501 (18010221)

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 3859762.9 |    269.66938 (16012217)    271.55497 (20122517)    269.89387 (18122220)
   270.49017 (18010221)    271.83527 (18010221)
 3859743.4 |    261.83403 (16012217)    261.95831 (18122220)    261.20522 (18122220)
   265.37150 (18010221)    265.23324 (18010221)
 3859724.0 |    260.18454 (16012217)    256.98147 (18122220)    254.07966 (18010221)
   260.19873 (18010221)    258.80555 (18010221)
 3859704.6 |    252.78823 (16012217)    252.22791 (18122220)    250.15040 (18010221)
   254.96492 (18010221)    252.44633 (18010221)
 3859685.2 |    243.34632 (20122517)    245.82914 (18122220)    242.66863 (18010221)
   249.77494 (18010221)    246.01948 (18010221)
 3859665.8 |    237.52548 (18122220)    239.67139 (18122220)    234.85395 (18010221)
   241.82993 (18010221)    241.12678 (18010221)
 3859646.4 |    233.91820 (18122220)    232.32056 (18122220)    237.86180 (18010221)
   238.88759 (18010221)    232.71825 (18010221)
 3859626.9 |    230.57872 (18122220)    226.77846 (18010221)    233.62387 (18010221)
   233.39479 (18010221)    227.42972 (20022718)
 3859607.5 |    225.65626 (18122220)    223.80923 (18010221)    229.34042 (18010221)
   227.87532 (18010221)    222.88178 (20022718)
 3859588.1 |    219.90591 (18122220)    220.80769 (18010221)    224.99082 (18010221)
   222.33762 (18010221)    218.66506 (20022718)
 3859568.7 |    213.90677 (18122220)    217.66803 (18010221)    220.58031 (18010221)
   216.78617 (18010221)    214.72789 (20022718)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 539
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING5 ***
                                 INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                  L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489333.76               489353.06              489372.36
      489391.66              489410.96
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 ,
L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 ,
L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489430.26	489449.56	489468.86	489488.16	489507.46
3859957.1	322.54884 (15120819)	308.43472 (15120819)	293.58816 (15120819)	260.91404 (15120819)	239.70397 (15112019)
3859937.6	327.66342 (20040918)	319.27407 (15120819)	309.49904 (15120819)	288.40317 (15120819)	272.60355 (15112019)
3859918.2	315.51524 (20040918)	312.26386 (15120819)	307.28847 (15120819)	293.80113 (15120819)	276.92588 (15112019)
3859898.8	317.26328 (20040918)	310.25110 (15120819)	302.16375 (15120819)	290.37346 (15120819)	276.62759 (20030523)
3859879.4	321.32936 (20040918)	309.30564 (15120819)	297.09005 (15120819)	286.84419 (15120819)	279.14759 (18120603)
3859860.0	317.18704 (20040918)	310.57465 (15120819)	303.84700 (15120819)	292.00306 (15120819)	283.07821 (18120603)
3859840.5	310.99150 (20040918)	305.90030 (15120819)	302.73349 (15120819)	290.80279 (15120819)	281.09393 (18120603)
3859821.1	303.40773 (20040918)	298.63388 (15120819)	296.94782 (15120819)	286.38993 (15120819)	275.76678 (18120603)
3859801.7	297.06758 (20040918)	292.14533 (15120819)	290.99718 (15120819)	281.34727 (15120819)	272.64943 (18120603)
3859782.3	290.07787 (20040918)	285.06640 (15120819)	285.01672 (15120819)	275.99033 (15120819)	268.16329 (18120603)
3859762.9	282.63205 (20040918)	277.77658 (15120819)	278.70104 (15120819)	270.67725 (15120819)	259.59753 (18120603)
3859743.4	275.67566 (20040918)	270.80826 (15120819)	272.37290 (15120819)	265.40900 (15120819)	253.63176 (18120603)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                 INCLUDING SOURCE(S):   L0000260   , L0000261
, L0000262   , L0000263   , L0000264   ,
                 L0000265   , L0000266   , L0000267   , L0000268   , L0000269
, L0000270   , L0000271   , L0000272   ,
                 L0000273   , L0000274   , L0000275   , L0000276   , L0000277
, L0000278   , L0000279   , L0000280   ,
                 L0000281   , L0000282   , L0000283   , L0000284   , L0000285
, L0000286   , L0000287   ,

                                  *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489526.76   489546.06   489565.36
      489584.66   489603.96
 -
- -

 3859957.1 | 246.75426 (16010405)   248.88900 (16010405)   237.95588 (16112920)

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   233.37326 (15121808)    206.86379 (15121808)
 3859937.6 |    281.80055 (16010405)    289.41592 (16010405)    286.61200 (16010405)
   279.39328 (15121808)    273.23616 (15121808)
 3859918.2 |    283.83899 (15112019)    292.64778 (16010405)    286.08979 (16010405)
   278.54328 (16010405)    283.02009 (15121808)
 3859898.8 |    283.37762 (15112019)    286.26401 (16010405)    292.15853 (16010405)
   292.76805 (16010405)    282.49360 (15121808)
 3859879.4 |    282.29948 (15112019)    279.48810 (15112019)    290.04170 (16010405)
   296.02032 (16010405)    287.60878 (16010405)
 3859860.0 |    282.13853 (20030523)    281.82841 (15112019)    289.60110 (16010405)
   297.47907 (16010405)    290.42321 (16010405)
 3859840.5 |    277.59652 (20030523)    279.93200 (15112019)    282.32371 (16010405)
   293.27818 (16010405)    291.08324 (16010405)
 3859821.1 |    273.35540 (18120603)    273.49460 (15112019)    276.65507 (15112019)
   284.36960 (16010405)    290.41630 (16010405)
 3859801.7 |    270.82960 (18120603)    268.74616 (20030523)    272.33573 (15112019)
   276.52127 (16010405)    284.71357 (16010405)
 3859782.3 |    267.87378 (18120603)    263.72102 (20030523)    266.68284 (15112019)
   268.18964 (15112019)    277.29102 (16010405)
 3859762.9 |    263.84509 (18120603)    258.82710 (18120603)    260.48773 (15112019)
   263.30666 (15112019)    268.48599 (16010405)
 3859743.4 |    260.14582 (18120603)    255.87679 (18120603)    255.48721 (20030523)
   258.03549 (15112019)    259.42274 (16010405)
 3859724.0 |    255.56687 (18120603)    252.70399 (18120603)    250.44658 (20030523)
   252.79870 (15112019)    252.28426 (15112019)
 3859704.6 |    250.76289 (18120603)    249.30936 (18120603)    245.54856 (20030523)
   247.07385 (15112019)    248.47990 (15112019)
 3859685.2 |    245.74572 (18120603)    245.69562 (18120603)    240.29940 (20030523)
   241.20463 (20030523)    243.87045 (15112019)
 3859665.8 |    240.53091 (18120603)    241.48583 (18120603)    236.47278 (18120603)
   236.92492 (20030523)    238.87766 (15112019)
 3859646.4 |    235.13716 (18120603)    237.50770 (18120603)    233.44812 (18120603)
   232.38939 (20030523)    233.52158 (15112019)
 3859626.9 |    229.37043 (18120603)    233.60985 (18120603)    230.92283 (18120603)
   228.03154 (20030523)    228.01958 (15112019)
 3859607.5 |    223.89965 (18120603)    229.41478 (18120603)    228.31486 (18120603)
   223.38374 (20030523)    223.09785 (20030523)
 3859588.1 |    217.32374 (18120603)    224.01777 (18120603)    224.53556 (18120603)
   217.92711 (20030523)    219.35560 (20030523)
 3859568.7 |    210.49812 (18120603)    218.34396 (18120603)    220.24819 (18120603)
   215.23522 (18120603)    215.36156 (20030523)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 542
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: LOADING5 ***
                                INCLUDING SOURCE(S):   L0000260   , L0000261
, L0000262   , L0000263   , L0000264   ,
                 L0000265   , L0000266   , L0000267   , L0000268   , L0000269
, L0000270   , L0000271   , L0000272   ,
                 L0000273   , L0000274   , L0000275   , L0000276   , L0000277
, L0000278   , L0000279   , L0000280   ,
                 L0000281   , L0000282   , L0000283   , L0000284   , L0000285
, L0000286   , L0000287   ,

                                 *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489623.26
 -
- -

 3859957.1 | 189.99479 (20121324)
 3859937.6 | 228.86467 (15121808)
 3859918.2 | 259.60631 (15121808)
 3859898.8 | 289.29770 (15121808)
 3859879.4 | 295.54351 (15121808)
 3859860.0 | 290.94107 (15121808)
 3859840.5 | 286.88679 (16010405)
 3859821.1 | 288.05110 (16010405)
 3859801.7 | 286.52526 (16010405)
 3859782.3 | 282.78265 (16010405)
 3859762.9 | 278.08422 (16010405)
 3859743.4 | 271.32881 (16010405)
 3859724.0 | 263.39679 (16010405)
 3859704.6 | 254.57161 (16010405)
 3859685.2 | 245.05422 (16010405)
 3859665.8 | 237.88233 (15112019)
 3859646.4 | 234.11111 (15112019)
 3859626.9 | 229.97922 (15112019)
 3859607.5 | 225.50784 (15112019)
 3859588.1 | 220.71865 (15112019)
 3859568.7 | 215.49128 (15112019)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 , L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 , L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 , L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489260.34	489284.99	489309.64	489334.29	489358.94
3859173.4	149.42907 (19011424)	148.65120 (20022718)	150.22920 (16122922)	159.99457 (20040918)	168.55570 (20040918)
3859151.9	146.76245 (20022718)	145.39805 (20022718)	148.34194 (16122922)	157.81179 (20040918)	165.95468 (20040918)
3859130.3	144.23550 (20022718)	142.22503 (20022718)	146.38601 (16122922)	155.67737 (20040918)	163.41681 (20040918)
3859108.7	141.68797 (20022718)	139.24706 (20022718)	144.39287 (16122922)	153.58005 (20040918)	160.91877 (20040918)
3859087.1	139.23537 (20022718)	136.49107 (20022718)	142.42471 (16122922)	151.53679 (20040918)	158.50250 (20040918)
3859065.6	136.89650 (20022718)	133.68393 (20022718)	140.48116 (16122922)	149.52028 (20040918)	156.14352 (20040918)
3859044.0	134.66352 (20022718)	131.97396 (16122922)	138.51029 (16122922)	147.56382 (20040918)	153.81341 (20040918)
3859022.4	132.34608 (20022718)	130.57669 (16122922)	136.61687 (16122922)	145.64816 (20040918)	151.56448 (20040918)
3859000.9	130.20024 (20022718)	129.13503 (16122922)	134.74705 (16122922)	143.77201 (20040918)	149.36722 (20040918)
3858979.3	127.97480 (20022718)	127.69822 (16122922)	132.90062 (16122922)	141.93410 (20040918)	147.21996 (20040918)
3858957.7	125.63601 (20022718)	126.37901 (16122922)	131.02638 (16122922)	140.14620 (20040918)	145.14355 (20040918)
3858936.1	123.38252 (20022718)	125.01189 (16122922)	129.22760 (16122922)	138.36837 (20040918)	143.06910 (20040918)
3858914.6	121.14983 (20022718)	123.60249 (16122922)	127.39706 (16122922)	136.61965 (20040918)	141.06251 (20040918)
3858893.0	118.93907 (20022718)	122.19737 (16122922)	125.55146 (20040918)		

 3859173.4 | 169.70620 (20040918)   163.18750 (20040918)   157.08225 (16020819)
  154.20790 (16020819)   155.87858 (15120819)
 3859151.9 | 166.84674 (20040918)   160.26200 (20040918)   154.55112 (16020819)
  151.85426 (16020819)   152.98440 (15120819)

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 3859130.3 |    164.03466 (20040918)    157.41864 (20040918)    151.92475 (16020819)
   149.56083 (16020819)    150.14299 (15120819)
 3859108.7 |    161.32383 (20040918)    154.65459 (20040918)    149.36590 (16020819)
   147.14250 (16020819)    147.36793 (15120819)
 3859087.1 |    158.70836 (20040918)    151.91710 (20040918)    147.03795 (16020819)
   144.78464 (16020819)    144.65737 (15120819)
 3859065.6 |    156.11008 (20040918)    149.18249 (20040918)    144.76931 (16020819)
   142.84864 (16020819)    142.01219 (15120819)
 3859044.0 |    153.57055 (20040918)    146.57221 (20040918)    142.55795 (16020819)
   140.94693 (16020819)    139.42502 (15120819)
 3859022.4 |    151.12699 (20040918)    144.23392 (20040918)    140.54656 (16020819)
   138.92371 (16020819)    136.89529 (15120819)
 3859000.9 |    148.70647 (20040918)    141.76625 (20040918)    138.43980 (16020819)
   136.94901 (16020819)    134.42750 (15120819)
 3858979.3 |    146.33919 (20040918)    139.42347 (20040918)    136.38493 (16020819)
   135.16773 (16020819)    132.01392 (15120819)
 3858957.7 |    144.11741 (20040918)    137.14152 (20040918)    134.38023 (16020819)
   133.41765 (16020819)    129.65507 (15120819)
 3858936.1 |    141.86391 (20040918)    134.85447 (20040918)    132.15891 (16020819)
   131.29892 (16020819)    127.34715 (15120819)
 3858914.6 |    139.70654 (20040918)    132.68896 (20040918)    130.25501 (16020819)
   129.35749 (16020819)    125.09303 (15120819)
 3858893.0 |    137.64062 (20040918)    130.51006 (20040918)    128.39550 (16020819)
   127.60261 (16020819)    122.88921 (15120819)
 3858871.4 |    135.54371 (20040918)    128.45293 (20040918)    126.57898 (16020819)
   125.74408 (16020819)    120.72564 (15120819)
 3858849.9 |    133.48979 (20040918)    126.44661 (20040918)    124.67355 (16020819)
   123.92367 (16020819)    118.60392 (15120819)
 3858828.3 |    131.52831 (20040918)    124.41870 (20040918)    122.80772 (16020819)
   122.28901 (16020819)    116.54240 (15120819)
 3858806.7 |    129.56191 (20040918)    122.26712 (20040918)    120.98111 (16020819)
   120.54531 (16020819)    115.05095 (16020819)
 3858785.2 |    127.73858 (20040918)    120.49305 (20040918)    119.33254 (16020819)
   118.83759 (16020819)    113.36817 (16020819)
 3858763.6 |    125.90756 (20040918)    118.82823 (20040918)    117.72084 (16020819)
   117.31315 (16020819)    111.86895 (16020819)
 3858742.0 |    124.01657 (20040918)    116.90269 (20040918)    116.14488 (16020819)
   115.82103 (16020819)    110.55662 (16020819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 545
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING5 ***
                                   INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
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                 L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                 L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                 L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489506.84               489531.49               489556.14
      489580.79               489605.44
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3859173.4 |    157.54336 (15120819)    152.31582 (15120819)    140.99392 (15120819)
   140.80313 (18120603)    150.86950 (18120603)
 3859151.9 |    154.99859 (15120819)    150.30673 (15120819)    139.47779 (15120819)
   136.57033 (18120603)    147.77745 (18120603)
 3859130.3 |    152.50137 (15120819)    148.37366 (15120819)    138.11111 (15120819)
   132.55495 (18120603)    144.22757 (18120603)
 3859108.7 |    150.05070 (15120819)    146.40954 (15120819)    136.81089 (15120819)
   129.59250 (19102618)    140.26557 (18120603)
 3859087.1 |    147.69078 (15120819)    144.50719 (15120819)    135.49879 (15120819)
   127.59430 (19102618)    136.47569 (18120603)
 3859065.6 |    145.32497 (15120819)    142.61606 (15120819)    134.08207 (15120819)
   125.72759 (19102618)    132.67332 (18120603)
 3859044.0 |    142.99883 (15120819)    140.73719 (15120819)    132.72315 (15120819)
   123.84342 (19102618)    129.06536 (18120603)
 3859022.4 |    140.72200 (15120819)    138.84630 (15120819)    131.44998 (15120819)
   121.94438 (19102618)    125.45814 (18120603)
 3859000.9 |    138.47845 (15120819)    136.99762 (15120819)    130.09435 (15120819)
   120.03299 (19102618)    121.85932 (18120603)
 3858979.3 |    136.28656 (15120819)    135.15441 (15120819)    128.71235 (15120819)
   118.23502 (19102618)    118.45445 (18120603)
 3858957.7 |    134.14233 (15120819)    133.35521 (15120819)    127.29470 (15120819)
   116.78630 (15120819)    115.62959 (19102618)
 3858936.1 |    132.02992 (15120819)    131.57943 (15120819)    125.96485 (15120819)
   115.84022 (15120819)    114.12329 (19102618)
 3858914.6 |    129.95645 (15120819)    129.84043 (15120819)    124.64143 (15120819)
   114.87757 (15120819)    112.59310 (19102618)
 3858893.0 |    127.91485 (15120819)    128.10968 (15120819)    123.35850 (15120819)
   114.03573 (15120819)    110.91367 (19102618)
 3858871.4 |    125.91902 (15120819)    126.37456 (15120819)    122.01547 (15120819)
   113.18626 (15120819)    109.34069 (19102618)
 3858849.9 |    123.94849 (15120819)    124.69207 (15120819)    120.71365 (15120819)
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                              INCLUDING SOURCE(S):   L0000260   , L0000261
, L0000262   , L0000263   , L0000264   ,
                 L0000265   , L0000266   , L0000267   , L0000268   , L0000269
, L0000270   , L0000271   , L0000272   ,
                 L0000273   , L0000274   , L0000275   , L0000276   , L0000277
, L0000278   , L0000279   , L0000280   ,
                 L0000281   , L0000282   , L0000283   , L0000284   , L0000285
, L0000286   , L0000287   ,

                               *** NETWORK ID: UCART2   ; NETWORK TYPE:
GRIDCART ***

                                   ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489630.09   489654.74   489679.39
      489704.04   489728.69
 -
- -

 3859173.4 | 154.04111 (18120603)   149.92179 (18120603)   149.09293 (20030523)
  149.73838 (20030523)   150.68971 (15112019)
 3859151.9 | 151.76346 (18120603)   148.82566 (18120603)   145.71341 (20030523)
  147.54882 (20030523)   147.26786 (15112019)
 3859130.3 | 149.17034 (18120603)   147.36770 (18120603)   142.05395 (20030523)
  145.14548 (20030523)   143.60931 (15112019)
 3859108.7 | 146.48770 (18120603)   145.36618 (18120603)   138.26950 (20030523)
  142.69014 (20030523)   140.41995 (20030523)

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 3859087.1 |    143.53295 (18120603)    143.65841 (18120603)    137.35225 (18120603)
   139.90884 (20030523)    139.09907 (20030523)
 3859065.6 |    140.51092 (18120603)    141.62832 (18120603)    136.43171 (18120603)
   137.10635 (20030523)    137.55113 (20030523)
 3859044.0 |    137.62372 (18120603)    139.69600 (18120603)    135.37023 (18120603)
   134.01412 (20030523)    135.64519 (20030523)
 3859022.4 |    134.49221 (18120603)    137.46294 (18120603)    134.17543 (18120603)
   130.78957 (20030523)    133.54453 (20030523)
 3859000.9 |    131.50885 (18120603)    135.33853 (18120603)    132.85400 (18120603)
   127.29986 (20030523)    131.10952 (20030523)
 3858979.3 |    128.48688 (18120603)    132.93414 (18120603)    131.41264 (18120603)
   124.22532 (18120603)    128.66048 (20030523)
 3858957.7 |    125.25418 (18120603)    130.64823 (18120603)    130.06455 (18120603)
   124.08785 (18120603)    126.36560 (20030523)
 3858936.1 |    122.18278 (18120603)    128.29025 (18120603)    128.40373 (18120603)
   123.39905 (18120603)    123.62880 (20030523)
 3858914.6 |    119.09527 (18120603)    125.68478 (18120603)    126.84441 (18120603)
   122.58275 (18120603)    120.76819 (20030523)
 3858893.0 |    115.99871 (18120603)    123.21002 (18120603)    125.18705 (18120603)
   121.84681 (18120603)    117.79785 (20030523)
 3858871.4 |    112.73069 (18120603)    120.50598 (18120603)    123.43860 (18120603)
   120.98990 (18120603)    114.73168 (20030523)
 3858849.9 |    109.63919 (18120603)    117.76254 (18120603)    121.41947 (18120603)
   119.82509 (18120603)    112.90470 (18120603)
 3858828.3 |    106.55752 (18120603)    115.16724 (18120603)    119.51394 (18120603)
   118.74833 (18120603)    112.71099 (18120603)
 3858806.7 |    103.17525 (19102618)    112.36533 (18120603)    117.53757 (18120603)
   117.56805 (18120603)    112.39352 (18120603)
 3858785.2 |    102.16117 (19102618)    109.36105 (18120603)    115.31852 (18120603)
   115.91680 (18120603)    111.76225 (18120603)
 3858763.6 |    101.11564 (19102618)    106.70696 (18120603)    113.04505 (18120603)
   114.36603 (18120603)    111.01956 (18120603)
 3858742.0 |    100.15911 (19102618)    104.38673 (18120603)    111.07853 (18120603)
   113.28960 (18120603)    110.16990 (18120603)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 547
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING5 ***
                                   INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
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                 L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489753.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3859173.4 |    149.86220 (15112019)
 3859151.9 |    148.00847 (15112019)
 3859130.3 |    145.83768 (15112019)
 3859108.7 |    143.22972 (15112019)
 3859087.1 |    140.77271 (15112019)
 3859065.6 |    137.92142 (15112019)
 3859044.0 |    134.71345 (15112019)
 3859022.4 |    131.30319 (15112019)
 3859000.9 |    129.52848 (20030523)
 3858979.3 |    128.24562 (20030523)
 3858957.7 |    126.60450 (20030523)
 3858936.1 |    124.92899 (20030523)
 3858914.6 |    123.07548 (20030523)
 3858893.0 |    121.21516 (20030523)
 3858871.4 |    119.04363 (20030523)
 3858849.9 |    116.88729 (20030523)
 3858828.3 |    114.44816 (20030523)
 3858806.7 |    112.19582 (20030523)
 3858785.2 |    109.68659 (20030523)
 3858763.6 |    106.94236 (20030523)
 3858742.0 |    104.11959 (20030523)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 548
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING5 ***
                                  INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
```

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, L0000278    , L0000279    , L0000280    ,
                L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       488584.66              488614.48              488644.30
      488674.12              488703.94
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3858905.0 |    128.23991 (15012608)    122.71085 (15012608)    111.65066 (15012608)
   111.46984 (18010719)    112.88625 (19121917)
 3858880.0 |    124.02490 (15012608)    116.05358 (15012608)    108.61420 (18010719)
   109.39731 (19121917)    110.74121 (19121917)
 3858855.1 |    118.83914 (15012608)    108.43091 (15012608)    107.51360 (18010719)
   108.83419 (19121917)    107.47584 (19121917)
 3858830.2 |    112.56269 (15012608)    103.81222 (18010719)    105.90302 (18010719)
   108.13807 (19121917)    103.25636 (19121917)
 3858805.3 |    106.08076 (15012608)    105.52318 (18010719)    104.86016 (19121917)
   104.38053 (19121917)     99.35386 (20090924)
 3858780.3 |    100.19017 (18010719)    101.61269 (18010719)    103.06882 (19121917)
   100.87341 (19121917)     98.93071 (20090924)
 3858755.4 |     99.24464 (18010719)     99.89059 (19121917)    100.74497 (19121917)
    96.81069 (19121917)     97.20211 (20090924)
 3858730.5 |     97.93663 (18010719)     99.08489 (19121917)     97.95033 (19121917)
    94.57135 (20090924)     94.77722 (20090924)
 3858705.5 |     96.13698 (19121917)     97.22826 (19121917)     94.57963 (19121917)
    93.52265 (20090924)     92.06494 (20090924)
 3858680.6 |     95.70509 (19121917)     94.93313 (19121917)     91.44546 (20090924)
    92.47225 (20090924)     89.54374 (20090924)
 3858655.7 |     94.61073 (19121917)     92.07425 (19121917)     90.12801 (20090924)
    90.08307 (20090924)     87.30656 (15013017)
 3858630.8 |     93.04681 (19121917)     88.99963 (19121917)     89.19281 (20090924)
    87.60082 (20090924)     86.72232 (15013017)
 3858605.8 |     90.86471 (19121917)     87.22174 (20090924)     87.77543 (20090924)
    84.73538 (20090924)     85.68609 (15013017)
 3858580.9 |     87.98436 (19121917)     86.67706 (20090924)     85.90433 (20090924)
    83.33103 (15013017)     84.46658 (20040923)
 3858556.0 |     84.17490 (19121917)     85.33903 (20090924)     83.47538 (20090924)
    82.88842 (15013017)     85.43388 (20040923)
 3858531.0 |     84.07064 (20090924)     84.04064 (20090924)     80.69790 (20090924)
    81.92039 (15013017)     86.05534 (20040923)
 3858506.1 |     83.26809 (20090924)     82.02272 (20090924)     80.06262 (15013017)
    80.74509 (15013017)     86.62395 (20040923)
```

 3858481.2 | 82.17635 (20090924)   79.76794 (20090924)   79.71973 (15013017)
    81.69384 (20040923)   86.70297 (20040923)
 3858456.2 | 80.66324 (20090924)   77.26856 (20090924)   78.79936 (15013017)
    82.36669 (20040923)   86.31007 (20040923)
 3858431.3 | 78.75890 (20090924)   77.00236 (15013017)   77.50812 (15013017)
    82.71899 (20040923)   86.31756 (16020520)
 3858406.4 | 76.29504 (20090924)   76.50168 (15013017)   77.85834 (20040923)
    82.62079 (20040923)   86.63377 (16020520)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
                                   INCLUDING SOURCE(S):   L0000260   , L0000261 , L0000262   , L0000263   , L0000264   ,
                  L0000265   , L0000266   , L0000267   , L0000268   , L0000269 , L0000270   , L0000271   , L0000272   ,
                  L0000273   , L0000274   , L0000275   , L0000276   , L0000277 , L0000278   , L0000279   , L0000280   ,
                  L0000281   , L0000282   , L0000283   , L0000284   , L0000285 , L0000286   , L0000287   ,

                                *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

  Y-COORD | X-COORD (METERS)
  (METERS) | 488733.76   488763.58   488793.40
      488823.22   488853.04
 -

 3858905.0 | 110.36186 (19121917)   109.13399 (20090924)   106.40890 (20090924)
   105.03323 (15013017)   112.93683 (20040923)
 3858880.0 | 106.27546 (19121917)   106.66918 (20090924)   102.59893 (20090924)
   104.87241 (20040923)   112.23180 (20040923)
 3858855.1 | 105.04713 (20090924)   102.93201 (20090924)   100.82051 (15013017)
   105.83860 (20040923)   112.03386 (16020520)
 3858830.2 | 102.33090 (20090924)   99.86997 (20090924)   99.29786 (15013017)
   105.96365 (20040923)   112.17635 (16020520)
 3858805.3 | 100.23310 (20090924)   96.31483 (15013017)   99.12922 (20040923)
   105.77572 (20040923)   111.97855 (16020520)
 3858780.3 | 97.75799 (20090924)   95.75233 (15013017)   100.15722 (20040923)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 ,
L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 ,
L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	488882.86	488912.68	488942.50	488972.32
489002.14				
3858905.0	119.06117 (16020520)	126.33964 (16012217)	129.31426 (16012217)	125.77373 (16012217)
121.35400 (20122517)				
3858880.0	118.72895 (16020520)	125.86977 (16012217)	126.90073 (16012217)	122.20052 (20122517)
117.39500 (20122517)				
3858855.1	118.63873 (16012217)	124.88909 (16012217)	124.04917 (16012217)	119.56377 (20122517)
116.21270 (18122220)				
3858830.2	118.92759 (16012217)	123.41933 (16012217)	120.88297 (16012217)	116.98750 (20122517)
115.81848 (18122220)				
3858805.3	118.61114 (16012217)	121.20424 (16012217)	117.26335 (16012217)	114.07321 (20122517)
115.26764 (18122220)				
3858780.3	118.39019 (16012217)	119.13206 (16012217)	114.78579 (20122517)	110.24161 (20122517)
114.54546 (18122220)				
3858755.4	117.36710 (16012217)	116.31893 (16012217)	112.25264 (20122517)	107.84991 (18122220)
113.40236 (18122220)				
3858730.5	115.64094 (16012217)	113.04279 (16012217)	109.35381 (20122517)	107.72854 (18122220)
111.96793 (18122220)				
3858705.5	113.51531 (16012217)	109.55778 (16012217)	106.35781 (20122517)	107.40092 (18122220)
110.24912 (18122220)				
3858680.6	111.50451 (16012217)	107.40633 (20122517)	103.17189 (20122517)	106.82445 (18122220)
108.48815 (18122220)				
3858655.7	108.80195 (16012217)	105.13575 (20122517)	100.19193 (18122220)	105.88005 (18122220)
106.42982 (18122220)				
3858630.8	105.89030 (16012217)	102.52210 (20122517)	100.32710 (18122220)	104.84294 (18122220)
104.25297 (18122220)				
3858605.8	102.74540 (20122517)	99.72218 (20122517)	100.16498 (18122220)	103.59576 (18122220)
101.92163 (18122220)				
3858580.9	100.79265 (20122517)	96.76454 (20122517)	99.76921 (18122220)	102.21553 (18122220)
99.45347 (18122220)				
3858556.0	98.74806 (20122517)	93.87325 (20122517)	99.22380 (18122220)	100.58767 (18122220)
96.89892 (18122220)				
3858531.0	96.49932 (20122517)	93.57912 (18122220)	98.53994 (18122220)	98.79227 (18122220)
94.17625 (18122220)				
3858506.1	94.17390 (20122517)	93.72034 (18122220)	97.71380 (18122220)	96.93942 (18122220)
91.42298 (18122220)				
3858481.2	91.75638 (20122517)	93.65565 (18122220)	96.63087 (18122220)	94.84591 (18122220)
88.58459 (18122220)				
3858456.2	89.15196 (20122517)	93.38990 (18122220)	95.31673 (18122220)	92.62902 (18122220)
85.67355 (18122220)				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 , L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 , L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 , L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489031.96	489061.78	489091.60	489121.42	489151.24
3858905.0	123.99098 (18122220)	125.13782 (18122220)	119.00570 (18122220)	122.26484 (18010221)	127.76210 (18010221)
3858880.0	122.72447 (18122220)	122.36855 (18122220)	115.00580 (18122220)	121.51746 (18010221)	125.84448 (18010221)
3858855.1	121.11786 (18122220)	119.36072 (18122220)	110.91991 (18122220)	120.63910 (18010221)	123.79993 (18010221)
3858830.2	119.32202 (18122220)	116.22624 (18122220)	110.92842 (18010221)	119.62631 (18010221)	121.65196 (18010221)
3858805.3	117.35050 (18122220)	112.99959 (18122220)	110.83689 (18010221)	118.43330 (18010221)	119.42020 (18010221)
3858780.3	115.19741 (18122220)	109.59587 (18122220)	110.63789 (18010221)	117.13892 (18010221)	117.11374 (18010221)
3858755.4	112.78245 (18122220)	106.07404 (18122220)	110.30834 (18010221)	115.74506 (18010221)	114.73000 (18010221)
3858730.5	110.11827 (18122220)	102.45636 (18122220)	109.82479 (18010221)		

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                 INCLUDING SOURCE(S):   L0000260   , L0000261
, L0000262   , L0000263   , L0000264   ,
                 L0000265   , L0000266   , L0000267   , L0000268   , L0000269
, L0000270   , L0000271   , L0000272   ,
                 L0000273   , L0000274   , L0000275   , L0000276   , L0000277
, L0000278   , L0000279   , L0000280   ,
                 L0000281   , L0000282   , L0000283   , L0000284   , L0000285
, L0000286   , L0000287   ,

                                  *** NETWORK ID: UCART3   ; NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3

**

  Y-COORD | X-COORD (METERS)
  (METERS) | 489181.06
 - - -

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489386.10	489460.62	489535.14	489609.66	489684.18
3861675.8	81.79742 (15010420)	88.82575 (20122019)	87.87094 (19121219)	88.75390 (16020720)	87.36674 (16020722)
3861650.6	84.08995 (15010420)	90.92426 (20122019)	90.54137 (19121219)	91.32607 (16020720)	89.62452 (16020722)
3861625.5	86.38701 (15010420)	92.79132 (20122019)	92.58944 (19121219)	93.33062 (16020720)	91.68166 (18011523)
3861600.3	88.58290 (15010420)	95.78337 (20122019)	94.58351 (19121219)	95.33980 (16020720)	94.67135 (18011523)
3861575.2	92.32538 (15010420)	97.92286 (20122019)	96.40184 (19121219)	97.34900 (16020720)	96.92009 (18011523)
3861550.1	94.87191 (19121703)	100.36360 (20122019)	98.93421 (19121219)	99.50481 (18020121)	97.81560 (18011523)
3861524.9	97.35102 (19121703)	103.12095 (20122019)	101.30748 (19121219)	101.45692 (18020121)	99.95394 (16122202)
3861499.8	99.92810 (19121703)	105.75221 (20122019)	103.49906 (19121219)	104.04032 (16020722)	103.33329 (16122202)
3861474.6	102.60792 (19121703)	108.36319 (20122019)	105.73598 (19121219)	107.58578 (16020722)	106.89471 (16122202)
3861449.5	105.14376 (19121703)	111.07696 (20122019)	108.42456 (16020720)	110.79543 (16020722)	108.99153 (16122202)
3861424.4	108.03270 (19121703)	114.03839 (20122019)	111.77798 (16020720)	113.87296 (16020722)	111.98336 (19123008)
3861399.2	111.03960 (19121703)	116.83306 (20122019)	115.06846 (16020720)	117.35543 (16020722)	115.67980 (19123008)
3861374.1	114.02509 (19121703)	119.57940 (20122019)	118.73517 (16020720)	120.84170 (16020722)	118.94618 (19123008)
3861348.9	117.12600 (19121703)	122.58189 (20122019)	122.49665 (16020720)	124.00623 (16020722)	121.70558 (19123008)
3861323.8	120.34739 (19121703)	126.20525 (20122019)	126.69271 (16020720)	127.11570 (16020722)	124.52491 (19123008)
3861298.7	123.86348 (19121703)	129.82057 (20122019)	131.01309 (16020720)	130.32319 (16020722)	127.73816 (19123008)
3861273.5	127.88297 (19121703)	133.41306 (20122019)	135.08058 (16020720)	133.98184 (16020722)	129.64106 (19123008)
3861248.4	132.65058 (19121703)	137.63107 (20021406)	139.04445 (19010903)	137.20201 (16020722)	134.65483 (19121118)
3861223.2	137.86533 (19121703)	142.75769 (20021406)	143.31418 (19010903)	139.93185 (16020722)	139.45144 (19121118)
3861198.1	143.36431 (19121703)	148.36970 (20021406)	148.10136 (19010903)	144.15108 (16122202)	144.07424 (19121118)
3861173.0	149.16167 (19121703)	154.28845 (20021406)	152.55631 (19010903)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 ,
L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 ,
L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489758.70	489833.22	489907.74	489982.26	490056.78
3861675.8	86.79425 (19123008)	85.70957 (19121118)	82.46886 (20010322)	81.35402 (19010320)	77.71630 (16020721)
3861650.6	89.18228 (19123008)	87.93480 (19121118)	84.60953 (19122119)	83.22758 (19010320)	79.29236 (16122118)
3861625.5	91.75326 (19123008)	90.05309 (19121118)	87.82058 (19122119)	85.34199 (19010320)	81.43308 (16122118)
3861600.3	94.88662 (19123008)	92.32963 (19121118)	90.17390 (19122119)	87.68427 (19010320)	85.61338 (16122718)
3861575.2	96.09887 (19123008)	93.56249 (19121118)	91.92571 (19122119)	89.90931 (16020721)	90.42046 (16122718)
3861550.1	96.65145 (19123008)	94.75275 (18120822)	93.77590 (19122119)	91.33564 (16020721)	94.92406 (18010223)
3861524.9	97.50423 (19121118)	97.08164 (20010322)	95.25299 (19010320)	91.77544 (16020721)	99.63252 (18010223)
3861499.8	100.83100 (19121118)	99.29322 (20010322)	98.42519 (19010320)	94.72209 (16122118)	103.35946 (18010223)
3861474.6	104.20508 (19121118)	101.23995 (20010322)	101.17542 (19010320)	98.11799 (16122118)	105.55761 (18010223)

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 3861449.5 |    107.87840 (19121118)    104.81352 (19122119)    103.42787 (19010320)
   103.20669 (16122718)    106.94157 (20011522)
 3861424.4 |    110.79979 (19121118)    108.58419 (19122119)    106.23642 (19010320)
   108.71654 (16122718)    111.33242 (19122908)
 3861399.2 |    113.68729 (19121118)    112.09616 (19122119)    107.80153 (16020721)
   113.68949 (16122718)    114.60870 (19122908)
 3861374.1 |    116.08839 (19121118)    114.89424 (19122119)    108.58170 (16020721)
   117.97762 (18010223)    116.87639 (19122908)
 3861348.9 |    118.37720 (18120822)    116.83788 (19010320)    111.84705 (16122118)
   121.42111 (18010223)    117.68685 (19122908)
 3861323.8 |    121.21619 (18120822)    120.09692 (19010320)    116.44019 (16122718)
   123.84047 (16122718)    116.75729 (19122908)
 3861298.7 |    124.54226 (20010322)    123.55144 (19010320)    124.28186 (16122718)
   129.77829 (19122908)    120.75684 (19022504)
 3861273.5 |    128.36288 (19122119)    126.58540 (19010320)    131.78898 (16122718)
   134.18722 (19122908)    126.05753 (19022504)
 3861248.4 |    133.32331 (19122119)    128.94850 (19010320)    138.19502 (16122718)
   136.13706 (19122908)    129.93977 (19022504)
 3861223.2 |    137.90773 (19122119)    131.83377 (16122118)    142.99685 (16122718)
   136.11569 (19122908)    133.02262 (16010323)
 3861198.1 |    141.83746 (19122119)    136.89377 (16122118)    146.29591 (16122718)
   137.40446 (19022504)    135.85147 (16122308)
 3861173.0 |    145.17949 (19010320)    145.53549 (16122718)    152.52749 (19122908)
   145.03696 (19022504)    142.63792 (16122308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 555
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING5 ***
                                   INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                  L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                    *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

  Y-COORD  |                                                X-COORD (METERS)
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  (METERS) |       490131.30              490205.82              490280.34
      490354.86              490429.38
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |     83.06068 (18010223)     83.02621 (19122908)     77.80246 (19122908)
    77.88789 (19022504)     74.85725 (19011524)
 3861650.6 |     86.03107 (18010223)     86.06605 (19122908)     79.27686 (18012324)
    79.21465 (19022504)     76.64239 (16122308)
 3861625.5 |     89.22554 (18010223)     88.99142 (19122908)     83.42493 (18012324)
    81.27003 (19010322)     79.42878 (16122308)
 3861600.3 |     92.31077 (18010223)     91.30598 (19122908)     86.99920 (19022504)
    84.92773 (19010322)     82.64542 (16122308)
 3861575.2 |     93.29688 (20011522)     91.58081 (19122908)     89.66046 (19022504)
    85.71005 (19011524)     82.40380 (16122308)
 3861550.1 |     97.85139 (19122908)     90.74888 (19122908)     92.02035 (19022504)
    88.20772 (16122308)     82.49780 (16122222)
 3861524.9 |    100.94384 (19122908)     93.25774 (18012324)     93.62338 (19010322)
    91.04748 (16122308)     85.70780 (16122222)
 3861499.8 |    102.56646 (19122908)     97.09845 (19022504)     95.84271 (19010322)
    92.45398 (16122308)     87.88294 (16122222)
 3861474.6 |    103.53257 (19122908)    101.96436 (19022504)     98.31256 (16122308)
    91.67413 (16122308)     89.49813 (16011801)
 3861449.5 |    105.07258 (19122908)    104.84949 (19022504)    100.63686 (16122308)
    92.93260 (16122222)     91.04145 (16011801)
 3861424.4 |    104.34196 (18012324)    106.16707 (19010322)    102.05546 (16122308)
    95.86798 (16122222)     91.31642 (16011801)
 3861399.2 |    107.97343 (19022504)    106.72251 (16010323)    101.83768 (16122308)
    97.32649 (16122222)     90.15231 (19010404)
 3861374.1 |    112.38008 (19022504)    109.29618 (16122308)    100.74936 (16122222)
    99.34605 (16011801)     93.45471 (18121521)
 3861348.9 |    115.08714 (19022504)    112.68179 (16122308)    104.91081 (16122222)
    99.97587 (16011801)     95.76387 (16022523)
 3861323.8 |    116.97872 (16010323)    113.29855 (16122308)    107.50972 (16122222)
    99.10672 (16011801)     99.22845 (16022523)
 3861298.7 |    119.65746 (16010323)    112.91837 (16122308)    110.06732 (16011801)
   103.13557 (18121521)    100.82911 (16022523)
 3861273.5 |    123.07895 (16122308)    115.44931 (16122222)    111.35614 (16011801)
   106.29978 (16022523)    100.94973 (19122621)
 3861248.4 |    126.12850 (16122308)    119.32973 (16122222)    110.28238 (16011801)
   109.93017 (16022523)    103.38761 (19120601)
 3861223.2 |    127.77348 (16122308)    122.58484 (16011801)    115.54548 (18121521)
   111.37734 (16022523)    106.95187 (19120601)
 3861198.1 |    127.51393 (16122222)    125.12229 (16011801)    120.68080 (16022523)
   111.44810 (19122621)    108.47253 (19120601)
 3861173.0 |    133.16440 (16122222)    124.92922 (16011801)    124.06615 (16022523)
   116.50775 (19120601)    108.13434 (16021120)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 , L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 , L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 , L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	490503.90	490578.42	490652.94	490727.46	490801.98
3861675.8	72.68069 (16122308)	70.50119 (16122222)	68.51375 (16011801)	66.06718 (18121521)	65.56141 (16022523)
3861650.6	72.14349 (16122308)	72.31699 (16122222)	69.32273 (16011801)	68.47550 (18121521)	67.09767 (16022523)
3861625.5	74.20748 (16122222)	74.53983 (16011801)	69.85607 (19010404)	69.89174 (16022523)	67.06855 (16022523)
3861600.3	78.91698 (16122222)	76.19920 (16011801)	71.84979 (18121521)	71.50904 (16022523)	67.38260 (19122621)
3861575.2	80.50097 (16122222)	76.31489 (16011801)	73.74214 (18121521)	72.25930 (16022523)	68.16864 (19120601)
3861550.1	81.57364 (16011801)	75.70191 (19010404)	75.75446 (16022523)	71.98282 (19122621)	70.30114 (19120601)
3861524.9	82.88923 (16011801)	78.12540 (18121521)	77.56419 (16022523)	72.41864 (19122621)	71.28362 (19120601)
3861499.8	82.89870 (16011801)	80.17217 (18121521)	78.11880 (16022523)	74.54147 (19120601)	71.33786 (19120601)
3861474.6	82.32723 (19010404)	82.51129 (16022523)	77.94742 (19122621)	76.22587 (19120601)	70.10266 (19120601)
3861449.5	85.52619 (18121521)	84.36465 (16022523)	78.60486 (19120601)	76.80471 (19120601)	72.77647 (16021120)
3861424.4	87.48415 (18121521)	84.55186 (16022523)	81.31086 (19120601)	75.70093 (19120601)	74.80106 (16021120)

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 3861399.2 |     90.17026 (16022523)     84.43032 (19122621)     82.48753 (19120601)
    77.41302 (16021120)     75.38853 (16021120)
 3861374.1 |     91.74080 (16022523)     86.62251 (19120601)     82.24021 (19120601)
    80.06580 (16021120)     75.83887 (18011823)
 3861348.9 |     91.51257 (16022523)     88.93559 (19120601)     82.11146 (16021120)
    81.02825 (16021120)     78.18616 (18011823)
 3861323.8 |     91.88992 (19120601)     89.46307 (19120601)     85.52942 (16021120)
    80.94067 (18011823)     78.68654 (18011823)
 3861298.7 |     95.84452 (19120601)     88.72607 (19120601)     87.22656 (16021120)
    84.35363 (18011823)     79.95315 (19022404)
 3861273.5 |     97.73007 (19120601)     92.16386 (16021120)     87.36429 (16021120)
    85.00701 (18011823)     80.38543 (18020819)
 3861248.4 |     97.51912 (19120601)     95.58731 (16021120)     90.32190 (18011823)
    85.62465 (19022404)     90.54194 (18020819)
 3861223.2 |     99.82943 (16021120)     96.71849 (16021120)     91.63367 (18011823)
    87.53169 (18020819)     99.15590 (18020819)
 3861198.1 |    104.06055 (16021120)     99.30176 (18011823)     92.67090 (19022404)
    98.43137 (18020819)    105.06501 (18020819)
 3861173.0 |    105.44624 (16021120)    100.65293 (18011823)     96.45150 (18020819)
   107.24154 (18020819)    107.71732 (18020819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 557
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING5 ***
                                  INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                  L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                   *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       490876.50
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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 3861675.8 |     62.30288 (19122621)
 3861650.6 |     62.81345 (19122621)
 3861625.5 |     64.81122 (19120601)
 3861600.3 |     66.06246 (19120601)
 3861575.2 |     66.42807 (19120601)
 3861550.1 |     65.74333 (19120601)
 3861524.9 |     65.82246 (16021120)
 3861499.8 |     68.43727 (16021120)
 3861474.6 |     70.07474 (16021120)
 3861449.5 |     70.49605 (16021120)
 3861424.4 |     71.03636 (18011823)
 3861399.2 |     72.98424 (18011823)
 3861374.1 |     73.37407 (18011823)
 3861348.9 |     74.08336 (19022404)
 3861323.8 |     73.74676 (19022404)
 3861298.7 |     82.32555 (18020819)
 3861273.5 |     90.11963 (18020819)
 3861248.4 |     96.24884 (18020819)
 3861223.2 |     99.94278 (18020819)
 3861198.1 |    100.41864 (18020819)
 3861173.0 |     98.01076 (18020819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 558
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING5 ***
                                  INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                  L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                  L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                  L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                   *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       491611.20              491641.99              491672.78
      491703.57              491734.36
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3861693.5	55.02642 (18020819)	55.54859 (18020819)	55.68927 (18020819)	54.90978 (18020819)	53.85597 (18020819)
3861664.1	57.11165 (18020819)	56.78403 (18020819)	55.82831 (18020819)	54.59997 (18020819)	52.93669 (18020819)
3861634.6	58.03332 (18020819)	56.83190 (18020819)	55.15441 (18020819)	53.21144 (18020819)	51.28843 (20012519)
3861605.2	57.47976 (18020819)	55.60465 (18020819)	53.25754 (20012519)	52.21692 (15011619)	52.87023 (15011619)
3861575.7	55.66945 (18020819)	53.92965 (20012519)	54.46693 (15011619)	54.78719 (15011619)	54.63277 (15011619)
3861546.3	56.23869 (15011619)	56.69516 (15011619)	56.53827 (15011619)	56.09967 (15011619)	55.34963 (15011619)
3861516.8	58.60362 (15011619)	58.24813 (15011619)	57.44599 (15011619)	56.23332 (15011619)	55.67128 (18011122)
3861487.4	59.55988 (15011619)	58.42760 (15011619)	57.80691 (18011122)	57.05651 (18011122)	55.97303 (18011122)
3861457.9	59.85476 (18011122)	59.13349 (18011122)	58.05079 (18011122)	56.64273 (18011122)	55.91683 (18020124)
3861428.5	60.37476 (18011122)	58.77148 (18011122)	58.04091 (18020124)	57.07355 (18020124)	55.76677 (18020124)
3861399.0	60.36130 (18020124)	59.19325 (18020124)	57.83561 (18020124)	57.10846 (19020204)	56.33105 (19020204)
3861369.6	59.97482 (18020124)	59.28259 (19020204)	58.39951 (19020204)	57.05664 (19020204)	55.46385 (19020204)
3861340.1	60.52926 (19020204)	59.09893 (19020204)	57.34473 (19020204)	56.07624 (19022507)	55.61902 (15123001)
3861310.7	59.32169 (19020204)	58.10374 (19022507)	57.88917 (15123001)	57.51753 (15123001)	56.82196 (15123001)
3861281.2	60.45952 (15123001)	59.87617 (15123001)	59.18097 (18011721)	59.19353 (18011721)	58.85086 (18011721)
3861251.8	62.09299 (18011721)	61.83698 (18011721)	61.26520 (18011721)	60.51838 (18011721)	59.38562 (18011721)
3861222.3	63.96834 (18011721)	62.88759 (18011721)	61.52998 (18011721)	60.32725 (18011522)	59.60644 (18011522)
3861192.9	63.78699 (18011721)	62.97943 (18011522)	62.10420 (18011522)	60.93857 (18011522)	59.45641 (18011522)
3861163.4	64.48201 (18011522)	63.13143 (18011522)	61.68769 (18011522)	59.85265 (16123005)	58.65523 (16123005)
3861134.0	63.25536 (18011522)	62.21600 (16123005)	61.02312 (16123005)	59.43513 (18120921)	57.98301 (20120318)
3861104.5	62.65646 (18120921)	61.30352 (20120318)	61.27363 (20120318)	60.98303 (20120318)	60.44685 (20120318)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 ,
L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 ,
L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	491765.15	491795.94	491826.73	491857.52	491888.31
3861693.5	52.41639 (18020819)	50.77656 (18020819)	48.88128 (18020819)	47.69896 (20012519)	47.81661 (15011619)
3861664.1	50.94334 (18020819)	49.36470 (20012519)	49.13690 (15011619)	49.44593 (15011619)	49.57124 (15011619)
3861634.6	50.55351 (15011619)	51.20573 (15011619)	51.25251 (15011619)	50.93097 (15011619)	50.39254 (15011619)
3861605.2	52.97501 (15011619)	52.87185 (15011619)	52.34297 (15011619)	51.50556 (15011619)	50.48683 (18011122)
3861575.7	54.16995 (15011619)	53.41992 (15011619)	52.26891 (15011619)	51.85984 (18011122)	51.32461 (18011122)
3861546.3	54.21715 (15011619)	53.85338 (18011122)	53.15617 (18011122)	52.26263 (18011122)	51.05976 (18011122)
3861516.8	54.94985 (18011122)	53.96803 (18011122)	52.75218 (18011122)	52.13094 (18020124)	51.50767 (18020124)
3861487.4	54.59021 (18011122)	53.91863 (18020124)	53.09607 (18020124)	51.97654 (18020124)	51.29334 (19020204)
3861457.9	54.97388 (18020124)	53.76677 (18020124)	53.07366 (19020204)	52.42719 (19020204)	51.49235 (19020204)
3861428.5	55.05839 (19020204)	54.32428 (19020204)	53.28373 (19020204)	51.91996 (19020204)	50.31818 (19020204)
3861399.0	55.17284 (19020204)	53.67338 (19020204)	52.15629 (19022507)	51.31611 (19022507)	51.24357 (15123001)
3861369.6	54.14383 (19022507)	53.41215 (15123001)	53.28506 (15123001)	52.87063 (15123001)	52.23564 (15123001)
3861340.1	55.37779 (15123001)	54.83119 (15123001)	54.48481 (18011721)		

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 3861664.1 |     49.26630 (15011619)     48.76067 (15011619)     48.11050 (15011619)
    47.33819 (18011122)     47.01297 (18011122)
 3861634.6 |     49.65477 (15011619)     48.82912 (18011122)     48.54233 (18011122)
    48.04034 (18011122)     47.25985 (18011122)
 3861605.2 |     50.15574 (18011122)     49.59506 (18011122)     48.73934 (18011122)
    47.65504 (18011122)     47.23939 (18020124)
 3861575.7 |     50.38501 (18011122)     49.24554 (18011122)     48.79613 (18020124)
    48.09822 (18020124)     47.35977 (18020124)
 3861546.3 |     50.48501 (18020124)     49.77695 (18020124)     48.80650 (18020124)
    48.13135 (19020204)     47.64911 (19020204)
 3861516.8 |     50.46290 (18020124)     49.60621 (19020204)     49.06173 (19020204)
    48.51709 (19020204)     47.52011 (19020204)
 3861487.4 |     50.76932 (19020204)     49.97106 (19020204)     48.83608 (19020204)
    47.56756 (19020204)     46.78483 (19022507)
 3861457.9 |     50.34263 (19020204)     48.91530 (19020204)     48.16387 (19022507)
    47.66115 (15123001)     47.76140 (15123001)
 3861428.5 |     49.63961 (19022507)     49.38942 (15123001)     49.23750 (15123001)
    48.80047 (15123001)     48.46159 (18011721)
 3861399.0 |     50.99239 (15123001)     50.48545 (15123001)     50.19934 (18011721)
    50.11384 (18011721)     49.99232 (18011721)
 3861369.6 |     52.14137 (18011721)     52.08797 (18011721)     51.62539 (18011721)
    51.00237 (18011721)     50.32041 (18011721)
 3861340.1 |     53.39598 (18011721)     52.72417 (18011721)     51.75788 (18011721)
    50.65410 (18011522)     50.31895 (18011522)
 3861310.7 |     53.30430 (18011721)     52.53728 (18011522)     51.97747 (18011522)
    51.24847 (18011522)     50.45140 (18011522)
 3861281.2 |     53.80001 (18011522)     52.86259 (18011522)     51.77050 (18011522)
    50.67344 (18011522)     49.44703 (16123005)
 3861251.8 |     53.25602 (18011522)     51.89092 (18011522)     51.12625 (16123005)
    50.29965 (16123005)     49.13910 (16123005)
 3861222.3 |     52.77824 (16123005)     51.70104 (16123005)     50.42267 (16123005)
    49.66173 (20120318)     49.57447 (20120318)
 3861192.9 |     52.21805 (20120318)     52.20932 (20120318)     52.00799 (20120318)
    51.66781 (20120318)     51.06755 (20120318)
 3861163.4 |     54.37675 (20120318)     53.85253 (20120318)     53.19575 (20120318)
    52.46220 (20120318)     51.44208 (20120318)
 3861134.0 |     55.04899 (20120318)     54.06577 (20120318)     53.54308 (19020808)
    53.08847 (19020808)     52.79391 (18120708)
 3861104.5 |     55.77617 (19020808)     55.68621 (18120708)     55.59298 (18120708)
    55.41475 (18120708)     55.10639 (18120708)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 561
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING5 ***
```

INCLUDING SOURCE(S): L0000260 , L0000261
, L0000262 , L0000263 , L0000264 ,
L0000265 , L0000266 , L0000267 , L0000268 , L0000269
, L0000270 , L0000271 , L0000272 ,
L0000273 , L0000274 , L0000275 , L0000276 , L0000277
, L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285
, L0000286 , L0000287 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	492073.05	492103.84	492134.63	492165.42	492196.21
3861693.5	45.42637 (18011122)	45.07320 (18011122)	44.53774 (18011122)	43.79768 (18011122)	42.83576 (18011122)
3861664.1	45.98575 (18011122)	45.17504 (18011122)	44.24151 (18011122)	43.80467 (18020124)	43.28726 (18020124)
3861634.6	46.10994 (18011122)	45.29601 (18020124)	44.62280 (18020124)	43.70043 (18020124)	43.01072 (19020204)
3861605.2	46.55024 (18020124)	45.67163 (18020124)	44.58314 (19020204)	43.99067 (19020204)	43.52806 (19020204)
3861575.7	46.64484 (19020204)	45.94490 (19020204)	45.41243 (19020204)	44.24932 (19020204)	43.09764 (19020204)
3861546.3	46.80382 (19020204)	45.86189 (19020204)	44.79873 (19020204)	43.58972 (19022507)	42.98664 (19022507)
3861516.8	46.07232 (19020204)	45.07123 (19022507)	44.37814 (19022507)	44.28263 (15123001)	44.04778 (15123001)
3861487.4	45.84981 (15123001)	45.78362 (15123001)	45.54246 (15123001)	45.13660 (15123001)	44.73984 (18011721)
3861457.9	47.13836 (15123001)	46.59140 (15123001)	46.44397 (18011721)	46.34973 (18011721)	46.07699 (18011721)
3861428.5	48.30346 (18011721)	48.07311 (18011721)	47.65572 (18011721)	47.14358 (18011721)	46.42774 (18011721)
3861399.0	49.36856 (18011721)	48.64933 (18011721)	47.80452 (18011721)	46.84734 (18011721)	46.40071 (18011522)
3861369.6	49.15865 (18011721)	48.40105 (18011522)	47.98826 (18011522)	47.34901 (18011522)	46.61553 (18011522)
3861340.1	49.60592 (18011522)	48.83013 (18011522)	47.91919 (18011522)	46.88717 (18011522)	45.78618 (18011522)
3861310.7	49.30029 (18011522)	48.15542 (18011522)	47.19820 (16123005)	46.48848 (16123005)	45.60144 (16123005)
3861281.2	48.67617 (16123005)	47.83722 (16123005)	46.81710 (16123005)		

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
                                 INCLUDING SOURCE(S):   L0000260   , L0000261
, L0000262   , L0000263   , L0000264   ,
                 L0000265   , L0000266   , L0000267   , L0000268   , L0000269
, L0000270   , L0000271   , L0000272   ,
                 L0000273   , L0000274   , L0000275   , L0000276   , L0000277
, L0000278   , L0000279   , L0000280   ,
                 L0000281   , L0000282   , L0000283   , L0000284   , L0000285
, L0000286   , L0000287   ,

                                  *** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 492227.00
 -
- -

 3861693.5 | 42.46308 (18020124)
 3861664.1 | 42.60150 (18020124)
 3861634.6 | 42.69479 (19020204)
 3861605.2 | 42.75481 (19020204)
 3861575.7 | 41.92985 (19020204)
 3861546.3 | 42.52057 (15123001)
 3861516.8 | 43.69493 (15123001)

 3861487.4 | 44.72831 (18011721)
 3861457.9 | 45.67389 (18011721)
 3861428.5 | 45.56315 (18011721)
 3861399.0 | 45.92216 (18011522)
 3861369.6 | 45.75977 (18011522)
 3861340.1 | 45.18382 (16123005)
 3861310.7 | 44.70581 (16123005)
 3861281.2 | 45.13498 (20120318)
 3861251.8 | 46.38108 (20120318)
 3861222.3 | 46.66711 (20120318)
 3861192.9 | 47.54254 (19020808)
 3861163.4 | 49.68016 (18120708)
 3861134.0 | 50.96917 (18120708)
 3861104.5 | 50.85754 (18120708)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
                                  INCLUDING SOURCE(S):   L0000260   , L0000261 , L0000262   , L0000263   , L0000264   ,
                 L0000265   , L0000266   , L0000267   , L0000268   , L0000269 , L0000270   , L0000271   , L0000272   ,
                 L0000273   , L0000274   , L0000275   , L0000276   , L0000277 , L0000278   , L0000279   , L0000280   ,
                 L0000281   , L0000282   , L0000283   , L0000284   , L0000285 , L0000286   , L0000287   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        488802.97   3861310.09   122.08665 (19120419)   488863.58   3861309.29   126.68086 (18020417)
        488847.63   3861279.78   128.51372 (18020417)   488850.82   3861262.24   129.57561 (18020417)
        488810.14   3861261.44   129.44472 (19120419)   488810.94   3861289.36   125.06218 (19120419)
        488819.72   3861306.90   122.11180 (18020417)   488816.53

3861235.92 132.28525 (19120419)
488841.25 3861126.66 155.78362 (16120117) 488879.53
3861121.88 155.88382 (20120306)
488913.82 3861121.08 159.63136 (19120419) 488925.79
3861092.37 168.53983 (19120419)
488920.03 3861067.49 174.73987 (20120306) 488996.74
3861113.92 162.97828 (18020417)
488974.03 3861097.77 173.01002 (18020417) 488931.63
3860976.64 192.79506 (16120421)
488935.67 3861034.68 184.02925 (16120117) 488959.90
3861061.43 181.95250 (19120419)
489165.81 3861208.80 143.85413 (16121423) 489317.74
3861109.28 163.16628 (16122819)
489385.87 3861014.75 180.76578 (19121703) 489372.24
3861112.69 161.02207 (19121703)
489420.79 3861106.73 170.90408 (15010420) 489436.12
3861037.74 184.50103 (15010420)
489488.07 3861036.89 182.81496 (19010903) 489473.59
3861110.99 165.74683 (19121219)
489431.01 3861167.20 160.45474 (15010420) 489662.66
3860915.95 215.72155 (19010320)
489644.78 3861076.07 170.40388 (19121118) 489659.26
3861099.06 164.13068 (19121118)
489735.91 3861020.71 176.80170 (16122118) 489700.14
3861029.23 179.57934 (19010320)
489708.65 3861062.44 171.12019 (19122119) 489779.34
3861099.06 156.91696 (16122118)
489835.95 3859138.59 150.68161 (16010405) 489885.95
3859138.59 139.77376 (16010405)
489935.95 3859138.59 141.23944 (16122521) 489985.95
3859138.59 150.91902 (15121808)
490035.95 3859138.59 150.96151 (15121808) 490085.95
3859138.59 128.62857 (15121808)
490135.95 3859138.59 125.82316 (20121324) 490185.95
3859138.59 134.52961 (20121324)
490235.95 3859138.59 124.48767 (20121324) 490285.95
3859138.59 120.74257 (15020404)
490335.95 3859138.59 115.76302 (15013024) 490385.95
3859138.59 96.70210 (15013024)
490435.95 3859138.59 92.38077 (16010120) 490485.95
3859138.59 80.21844 (19111222)
490535.95 3859138.59 70.13488 (19111222) 490585.95
3859138.59 56.30620 (19111222)
490635.95 3859138.59 49.85670 (15031607) 490685.95
3859138.59 44.64127 (19091124)
490735.95 3859138.59 40.82418 (16011020) 490785.95
3859138.59 38.61511 (18101319)
490835.95 3859138.59 38.81126 (20102217) 490885.95
3859138.59 35.16022 (19122108)
489835.95 3859188.59 156.46739 (16010405) 489885.95

3859188.59   149.29378 (16122521)
        489935.95   3859188.59   149.78963 (20011520)   489985.95
3859188.59   162.43769 (15121808)
        490035.95   3859188.59   152.20095 (15121808)   490085.95
3859188.59   132.96576 (19010405)
        490135.95   3859188.59   140.20690 (20121324)   490185.95
3859188.59   136.69749 (20121324)
        490235.95   3859188.59   129.97252 (15020404)   490285.95
3859188.59   127.59913 (15013024)
        490335.95   3859188.59   120.20183 (15013024)   490385.95
3859188.59   107.88732 (16010120)
        490435.95   3859188.59   95.25505 (16010120)   490485.95
3859188.59   82.39435 (19111222)
        490535.95   3859188.59   66.82543 (19111222)   490585.95
3859188.59   58.60753 (16080704)
        490635.95   3859188.59   50.10372 (19091124)   490685.95
3859188.59   42.14052 (16011020)
        490735.95   3859188.59   39.19364 (20102217)   490785.95
3859188.59   39.41623 (20102217)
        490835.95   3859188.59   39.71560 (19021208)   490885.95
3859188.59   38.94606 (19021208)
        489835.95   3859238.59   158.50578 (16010405)   489885.95
3859238.59   155.87450 (16122521)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
                                 INCLUDING SOURCE(S):   L0000260   , L0000261 , L0000262   , L0000263   , L0000264   ,
                L0000265   , L0000266   , L0000267   , L0000268   , L0000269 , L0000270   , L0000271   , L0000272   ,
                L0000273   , L0000274   , L0000275   , L0000276   , L0000277 , L0000278   , L0000279   , L0000280   ,
                L0000281   , L0000282   , L0000283   , L0000284   , L0000285 , L0000286   , L0000287   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)

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        490135.95   3859338.59      163.64966  (15020404)               490185.95
3859338.59      163.27851  (15013024)
        490235.95   3859338.59      153.76031  (15013024)               490285.95
3859338.59      152.15167  (16010120)
        490335.95   3859338.59      138.69087  (19111222)               490385.95
3859338.59      127.53020  (19111222)
        490435.95   3859338.59      120.37527  (20022004)               490485.95
3859338.59      111.72052  (20120808)
        490535.95   3859338.59       99.23137  (19120107)               490585.95
3859338.59       92.63718  (19120107)
        490635.95   3859338.59       83.77745  (19122324)               490685.95
3859338.59       75.71079  (19021208)
        490735.95   3859338.59       66.47670  (19021208)               490785.95
3859338.59       57.50066  (20112919)
        490835.95   3859338.59       56.43294  (18011120)               490885.95
3859338.59       52.24407  (18011120)
        489835.95   3859388.59      177.65485  (20011520)               489885.95
3859388.59      199.07790  (15121808)
        489935.95   3859388.59      189.96533  (15121808)               489985.95
3859388.59      161.86085  (20121324)
        490035.95   3859388.59      171.79294  (20121324)               490085.95
3859388.59      172.27301  (15020404)
        490135.95   3859388.59      171.45695  (15013024)               490185.95
3859388.59      168.92211  (15013024)
        490235.95   3859388.59      165.51274  (16010120)               490285.95
3859388.59      154.54884  (16010120)
        490335.95   3859388.59      146.78978  (19111222)               490385.95
3859388.59      144.84733  (20022004)
        490435.95   3859388.59      143.42156  (20120808)               490485.95
3859388.59      127.56513  (19120107)
        490535.95   3859388.59      119.42917  (19120107)               490585.95
3859388.59      106.87495  (19122324)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 565
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING5 ***
                                 INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                 L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
                 L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                 L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490635.95	3859388.59	98.10101	(18031023)	490685.95	3859388.59	81.21088	(16092619)
490735.95	3859388.59	66.47121	(20112919)	490785.95	3859388.59	69.61276	(18011120)
490835.95	3859388.59	75.49605	(18011120)	490885.95	3859388.59	66.74518	(18011120)
489835.95	3859438.59	201.94122	(15121808)	489885.95	3859438.59	210.79945	(15121808)
489935.95	3859438.59	182.07528	(15121808)	489985.95	3859438.59	179.40257	(20121324)
490035.95	3859438.59	176.76701	(15020404)	490085.95	3859438.59	182.96513	(15020404)
490135.95	3859438.59	181.53984	(15013024)	490185.95	3859438.59	175.79921	(16010120)
490235.95	3859438.59	169.28722	(16010120)	490285.95	3859438.59	160.43813	(15020520)
490335.95	3859438.59	163.17742	(20022004)	490385.95	3859438.59	163.70011	(20120808)
490435.95	3859438.59	148.05847	(19120107)	490485.95	3859438.59	139.40130	(19120107)
490535.95	3859438.59	130.48106	(19122324)	490585.95	3859438.59	118.41835	(18031023)
490635.95	3859438.59	105.12144	(16092619)	490685.95	3859438.59	102.23991	(18011120)
490735.95	3859438.59	102.10050	(18011120)	490785.95	3859438.59	91.76674	(18011120)
490835.95	3859438.59	84.51122	(16120720)	490885.95	3859438.59	82.93621	(16122021)
490085.95	3859488.59	192.31719	(15013024)	490135.95	3859488.59	183.89991	(16010120)
490185.95	3859488.59	181.93756	(16010120)	490235.95	3859488.59	175.85707	(15020520)
490285.95	3859488.59	177.42879	(20022004)	490335.95	3859488.59	182.03312	(20120808)
490385.95	3859488.59	165.65990	(19120107)	490435.95	3859488.59	156.98912	(19120107)
490485.95	3859488.59	149.24570	(19122324)	490535.95	3859488.59	134.46370	(18031023)
490585.95	3859488.59	123.44685	(20112919)	490635.95			

3859488.59   130.76982 (18011120)
        490685.95   3859488.59   128.63553 (18011120)   490735.95
3859488.59   113.51978 (18011120)
        490785.95   3859488.59   106.22883 (16120720)   490835.95
3859488.59   102.67133 (16122021)
        490885.95   3859488.59   94.26010 (19120108)   490085.95
3859538.59   192.15675 (15013024)
        490135.95   3859538.59   193.62261 (16010120)   490185.95
3859538.59   188.69471 (15020520)
        490235.95   3859538.59   188.95573 (20022004)   490285.95
3859538.59   196.46182 (20120808)
        490335.95   3859538.59   180.72398 (19120107)   490385.95
3859538.59   170.33672 (19120107)
        490435.95   3859538.59   164.68933 (19122324)   490485.95
3859538.59   146.79803 (18031023)
        490535.95   3859538.59   144.79665 (18011120)   490585.95
3859538.59   151.62634 (18011120)
        490635.95   3859538.59   145.60194 (18011120)   490685.95
3859538.59   136.89463 (16120720)
        490735.95   3859538.59   128.38907 (16122021)   490785.95
3859538.59   121.79575 (19120108)
        490835.95   3859538.59   123.53928 (19120108)   490885.95
3859538.59   109.00076 (19120108)
        490135.95   3859588.59   200.86705 (15020520)   490185.95
3859588.59   200.41267 (20022004)
        490235.95   3859588.59   208.26589 (20120808)   490285.95
3859588.59   191.46273 (19120107)
        490335.95   3859588.59   181.98469 (19122324)   490385.95
3859588.59   176.08617 (19122324)
        490435.95   3859588.59   155.49304 (18031023)   490485.95
3859588.59   162.50556 (18011120)
        490535.95   3859588.59   166.40415 (18011120)   490585.95
3859588.59   158.84809 (19020802)
        490635.95   3859588.59   154.60760 (16120720)   490685.95
3859588.59   150.96683 (19120108)
        490735.95   3859588.59   155.12184 (19120108)   490785.95
3859588.59   146.99281 (19120108)
        490835.95   3859588.59   131.01611 (19120108)   490885.95
3859588.59   112.85546 (19120708)
        490135.95   3859638.59   215.34363 (20022004)   490185.95
3859638.59   219.90794 (20120808)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: LOADING5 ***
                                INCLUDING SOURCE(S):   L0000260   , L0000261
, L0000262   , L0000263   , L0000264   ,
                 L0000265   , L0000266   , L0000267   , L0000268   , L0000269
, L0000270   , L0000271   , L0000272   ,
                 L0000273   , L0000274   , L0000275   , L0000276   , L0000277
, L0000278   , L0000279   , L0000280   ,
                 L0000281   , L0000282   , L0000283   , L0000284   , L0000285
, L0000286   , L0000287   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        490235.95   3859638.59   203.58933 (19120107)   490285.95
3859638.59   192.52283 (19122324)
        490335.95   3859638.59   182.93590 (19122324)   490385.95
3859638.59   165.81363 (20122020)
        490435.95   3859638.59   173.92201 (18011120)   490485.95
3859638.59   174.97093 (19020802)
        490535.95   3859638.59   173.46682 (16120720)   490585.95
3859638.59   171.06642 (19120108)
        490635.95   3859638.59   184.12827 (19120108)   490685.95
3859638.59   183.15840 (19120108)
        490735.95   3859638.59   166.69974 (19120108)   490785.95
3859638.59   146.76139 (19120708)
        490835.95   3859638.59   128.73035 (15121006)   490885.95
3859638.59   122.63700 (15121006)
        490135.95   3859688.59   231.99862 (20120808)   490185.95
3859688.59   211.69222 (19120107)
        490235.95   3859688.59   202.94308 (19122324)   490285.95
3859688.59   192.00110 (19122324)
        490335.95   3859688.59   181.79968 (20122020)   490385.95
3859688.59   180.38804 (19121704)
        490435.95   3859688.59   185.98652 (19020802)   490485.95
3859688.59   182.68248 (16120720)
        490535.95   3859688.59   200.85982 (19120108)   490585.95
3859688.59   208.91332 (19120108)
        490635.95   3859688.59   200.22079 (19120108)   490685.95
3859688.59   179.92884 (19120708)
        490735.95   3859688.59   155.56324 (19120708)   490785.95
3859688.59   145.55421 (15121006)
        490835.95   3859688.59   143.17497 (16010208)   490885.95
3859688.59   145.69256 (16010208)

490085.95 3859738.59 255.95078 (20120808) 490135.95
3859738.59 225.06680 (19120107)
490185.95 3859738.59 192.25692 (19122324) 490235.95
3859738.59 173.43899 (19122324)
490285.95 3859738.59 185.20719 (20122020) 490335.95
3859738.59 168.27801 (15121821)
490385.95 3859738.59 197.30551 (20122119) 490435.95
3859738.59 207.81328 (19120108)
490485.95 3859738.59 223.53079 (19120108) 490535.95
3859738.59 220.38259 (19120108)
490585.95 3859738.59 206.84208 (19120708) 490635.95
3859738.59 186.85667 (19120708)
490685.95 3859738.59 171.62903 (15121006) 490735.95
3859738.59 171.15676 (16010208)
490785.95 3859738.59 168.79149 (16010208) 490835.95
3859738.59 156.98555 (16010208)
490885.95 3859738.59 144.76920 (20120905) 490085.95
3859788.59 254.00980 (19120107)
490135.95 3859788.59 227.36009 (19122324) 490185.95
3859788.59 187.66239 (20122020)
490235.95 3859788.59 187.75847 (19121704) 490285.95
3859788.59 185.38305 (15121821)
490335.95 3859788.59 182.09226 (19120108) 490385.95
3859788.59 190.85505 (19120108)
490435.95 3859788.59 188.13123 (19120708) 490485.95
3859788.59 208.40713 (19120708)
490535.95 3859788.59 208.76651 (19120708) 490585.95
3859788.59 188.96516 (15121006)
490635.95 3859788.59 193.21258 (16010208) 490685.95
3859788.59 190.08404 (16010208)
490735.95 3859788.59 177.34675 (16010208) 490785.95
3859788.59 162.50017 (20120905)
490835.95 3859788.59 154.32064 (18121507) 490885.95
3859788.59 149.56923 (18011822)
490085.95 3859838.59 254.37692 (19122324) 490135.95
3859838.59 212.50920 (20122020)
490185.95 3859838.59 207.08043 (15121821) 490235.95
3859838.59 202.61611 (15012223)
490285.95 3859838.59 211.35377 (19120108) 490335.95
3859838.59 212.74320 (19120108)
490385.95 3859838.59 208.73086 (19120708) 490435.95
3859838.59 194.15924 (19120708)
490485.95 3859838.59 173.86034 (15121006) 490535.95
3859838.59 196.28946 (16010208)
490585.95 3859838.59 203.66082 (16010208) 490635.95
3859838.59 190.20412 (16010208)
490685.95 3859838.59 173.24783 (20120905) 490735.95
3859838.59 171.91444 (18121507)
490785.95 3859838.59 172.25261 (18011822) 490835.95
3859838.59 166.98943 (18011822)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 ,
L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 ,
L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490885.95	3859838.59	155.41766	(18011822)	490085.95	3859888.59	234.67244	(20122020)
490135.95	3859888.59	231.81081	(15121821)	490185.95	3859888.59	233.43385	(19120108)
490235.95	3859888.59	240.96744	(19120108)	490285.95	3859888.59	237.28887	(19120708)
490335.95	3859888.59	222.85985	(19120708)	490385.95	3859888.59	197.84727	(15121006)
490435.95	3859888.59	195.25327	(16010208)	490485.95	3859888.59	186.64406	(16010208)
490535.95	3859888.59	172.89858	(18120308)	490585.95	3859888.59	180.48966	(18121507)
490635.95	3859888.59	186.61314	(18011822)	490685.95	3859888.59	184.23706	(18011822)
490735.95	3859888.59	175.41118	(18011822)	490785.95	3859888.59	169.03232	(15010721)
490835.95	3859888.59	166.79873	(15010721)	490885.95	3859888.59	161.03949	(19011921)
490135.95	3859938.59	274.36650	(19120108)	490185.95	3859938.59	271.47686	(19120708)
490235.95	3859938.59	257.66944	(19120708)	490285.95			

3859938.59 227.68105 (19120708)
490335.95 3859938.59 223.63560 (16010208) 490385.95
3859938.59 211.84260 (16010208)
490435.95 3859938.59 195.25123 (18120308) 490485.95
3859938.59 182.02839 (18121507)
490535.95 3859938.59 174.43567 (18011822) 490585.95
3859938.59 165.29227 (18011822)
490635.95 3859938.59 158.02312 (15010721) 490685.95
3859938.59 187.37571 (15010721)
490735.95 3859938.59 179.60534 (15010721) 490785.95
3859938.59 165.08535 (15010721)
490835.95 3859938.59 160.12601 (20122520) 490885.95
3859938.59 134.48196 (20122520)
490135.95 3859988.59 301.82087 (19120708) 490185.95
3859988.59 266.78496 (19120708)
490235.95 3859988.59 258.03797 (16010208) 490285.95
3859988.59 241.78628 (16010208)
490335.95 3859988.59 220.32700 (18120308) 490385.95
3859988.59 207.99670 (18121507)
490435.95 3859988.59 199.39989 (18011822) 490485.95
3859988.59 187.81019 (15010721)
490535.95 3859988.59 181.60375 (15010721) 490585.95
3859988.59 170.94738 (15010721)
490635.95 3859988.59 159.31340 (20122520) 490685.95
3859988.59 168.79224 (20122520)
490735.95 3859988.59 166.10716 (20122520) 490785.95
3859988.59 161.75468 (15120221)
490835.95 3859988.59 152.66658 (15021320) 490885.95
3859988.59 130.07866 (15021320)
490135.95 3860038.59 304.15259 (16010208) 490185.95
3860038.59 280.31402 (16010208)
490235.95 3860038.59 253.84341 (18121507) 490285.95
3860038.59 242.76712 (18011822)
490335.95 3860038.59 226.59669 (18011822) 490385.95
3860038.59 218.65458 (15010721)
490435.95 3860038.59 205.36710 (15010721) 490485.95
3860038.59 191.24756 (20122520)
490535.95 3860038.59 182.42470 (20122520) 490585.95
3860038.59 170.38677 (15021320)
490635.95 3860038.59 166.22736 (15021320) 490685.95
3860038.59 159.01515 (15021320)
490735.95 3860038.59 149.18480 (15021320) 490785.95
3860038.59 142.81937 (20012419)
490835.95 3860038.59 138.52637 (20012419) 490885.95
3860038.59 133.32622 (20012419)
490135.95 3860088.59 301.53944 (18011822) 490185.95
3860088.59 284.24827 (18011822)
490235.95 3860088.59 269.21515 (15010721) 490285.95
3860088.59 251.73269 (15010721)
490335.95 3860088.59 233.30091 (20122520) 490385.95

3860088.59   219.76435 (20122520)
        490435.95   3860088.59   208.34980 (15021320)   490485.95
3860088.59   199.67171 (15021320)
        490535.95   3860088.59   187.37551 (15021320)   490585.95
3860088.59   178.08044 (20012419)
        490635.95   3860088.59   171.32450 (20012419)   490685.95
3860088.59   162.88986 (20012419)
        490735.95   3860088.59   153.91698 (18011319)   490785.95
3860088.59   146.84052 (18011319)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
                                   INCLUDING SOURCE(S):   L0000260   , L0000261 , L0000262   , L0000263   , L0000264   ,
                 L0000265   , L0000266   , L0000267   , L0000268   , L0000269 , L0000270   , L0000271   , L0000272   ,
                 L0000273   , L0000274   , L0000275   , L0000276   , L0000277 , L0000278   , L0000279   , L0000280   ,
                 L0000281   , L0000282   , L0000283   , L0000284   , L0000285 , L0000286   , L0000287   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
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        490635.95   3860138.59      172.35478  (19013107)              490685.95
3860138.59      162.85871  (19013107)
        490735.95   3860138.59      156.19528  (15012208)              490785.95
3860138.59      149.03145  (15012208)
        490835.95   3860138.59      141.21883  (15012208)              490885.95
3860138.59      134.49753  (16020401)
        490935.95   3860138.59      128.26041  (16020401)              490985.95
3860138.59      122.78846  (20122021)
        491035.95   3860138.59      118.56282  (16021621)              490135.95
3860188.59      332.27869  (15021320)
        490185.95   3860188.59      308.66629  (20012419)              490235.95
3860188.59      289.59762  (20012419)
        490285.95   3860188.59      267.74184  (18011319)              490335.95
3860188.59      249.28371  (18011319)
        490385.95   3860188.59      234.21301  (19013107)              490435.95
3860188.59      219.70863  (15012208)
        490485.95   3860188.59      207.51873  (15012208)              490535.95
3860188.59      194.30712  (15012208)
        490585.95   3860188.59      183.52327  (16020401)              490635.95
3860188.59      173.11466  (16020401)
        490685.95   3860188.59      165.35472  (20122021)              490735.95
3860188.59      157.20941  (20122021)
        490785.95   3860188.59      149.55236  (20122021)              490835.95
3860188.59      141.94243  (20122021)
        490885.95   3860188.59      133.92638  (20122021)              490935.95
3860188.59      126.12959  (20122021)
        490985.95   3860188.59      119.99809  (20120821)              491035.95
3860188.59      115.67695  (20120821)
        491085.95   3860188.59      111.10741  (20120821)              491135.95
3860188.59      107.16410  (20120821)
        490135.95   3860238.59      345.53162  (19013107)              490185.95
3860238.59      318.42833  (15012208)
        490235.95   3860238.59      293.52414  (15012208)              490285.95
3860238.59      272.37572  (16020401)
        490335.95   3860238.59      254.75819  (20122021)              490385.95
3860238.59      239.13231  (20122021)
        490435.95   3860238.59      223.53287  (20122021)              490485.95
3860238.59      208.19854  (20122021)
        490535.95   3860238.59      193.40545  (20122021)              490585.95
3860238.59      181.83661  (20120821)
        490635.95   3860238.59      173.06337  (20120821)              490685.95
3860238.59      164.46742  (20120821)
        490735.95   3860238.59      156.01013  (20120821)              490785.95
3860238.59      147.82695  (20120821)
        490835.95   3860238.59      139.93704  (20120821)              490885.95
3860238.59      132.50069  (20120821)
        490935.95   3860238.59      125.72960  (15021823)              490985.95
3860238.59      121.98150  (15021823)
        491035.95   3860238.59      117.29436  (15021823)              491085.95
3860238.59      112.35903  (15021823)
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261
, L0000262 , L0000263 , L0000264 ,
L0000265 , L0000266 , L0000267 , L0000268 , L0000269
, L0000270 , L0000271 , L0000272 ,
L0000273 , L0000274 , L0000275 , L0000276 , L0000277
, L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285
, L0000286 , L0000287 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490985.95	3860288.59	122.54353	(15021823)	491035.95	3860288.59	117.50609	(15012508)
491085.95	3860288.59	112.75773	(15012508)	490135.95			

3860338.59 361.85156 (15012508)
490185.95 3860338.59 333.25381 (15012508) 490235.95
3860338.59 307.83095 (15012508)
490285.95 3860338.59 285.66748 (15012508) 490335.95
3860338.59 265.85161 (15012508)
490385.95 3860338.59 248.01832 (15012508) 490435.95
3860338.59 231.82320 (15012508)
490485.95 3860338.59 216.92000 (15012508) 490535.95
3860338.59 203.65138 (15012508)
490585.95 3860338.59 191.20299 (15012508) 490635.95
3860338.59 180.12587 (15012508)
490685.95 3860338.59 170.16373 (15012508) 490735.95
3860338.59 161.06305 (15012508)
490785.95 3860338.59 153.24487 (15012508) 490835.95
3860338.59 145.21729 (15012508)
490885.95 3860338.59 137.92527 (15012508) 490935.95
3860338.59 131.04692 (15012508)
490985.95 3860338.59 124.60146 (15012508) 491035.95
3860338.59 118.91251 (15012508)
491085.95 3860338.59 113.53845 (15012508) 490135.95
3860388.59 355.61119 (16010403)
490185.95 3860388.59 326.13434 (16010403) 490235.95
3860388.59 300.49667 (16010403)
490285.95 3860388.59 278.20284 (16010403) 490335.95
3860388.59 258.53017 (16010403)
490385.95 3860388.59 240.88586 (16010403) 490435.95
3860388.59 224.98344 (16010403)
490485.95 3860388.59 210.90191 (16010403) 490535.95
3860388.59 198.02278 (16010403)
490585.95 3860388.59 186.43854 (16010403) 490635.95
3860388.59 175.72612 (16010403)
490685.95 3860388.59 166.37775 (16010403) 490735.95
3860388.59 157.52143 (16010403)
490785.95 3860388.59 149.61235 (16010403) 490835.95
3860388.59 142.58583 (16010403)
490135.95 3860438.59 388.59998 (20120308) 490185.95
3860438.59 351.82563 (20120308)
490235.95 3860438.59 319.20079 (20120308) 490285.95
3860438.59 291.95383 (15121708)
490335.95 3860438.59 270.96295 (15121708) 490385.95
3860438.59 251.98421 (15121708)
490435.95 3860438.59 234.66929 (15121708) 490485.95
3860438.59 218.87040 (15121708)
490535.95 3860438.59 204.71887 (15121708) 490585.95
3860438.59 191.54187 (15121708)
490635.95 3860438.59 179.50348 (15121708) 490685.95
3860438.59 168.73078 (15121708)
490735.95 3860438.59 159.06196 (15121708) 490785.95
3860438.59 149.83444 (15121708)
490835.95 3860438.59 141.91345 (15121708) 490135.95

3860488.59   337.62123 (18120821)
        490185.95   3860488.59   318.89489 (20120308)   490235.95
3860488.59   304.93183 (20120308)
        490285.95   3860488.59   290.20750 (20120308)   490335.95
3860488.59   274.26113 (20120308)
        490385.95   3860488.59   258.94838 (20120308)   490435.95
3860488.59   244.53158 (20120308)
        490485.95   3860488.59   229.53482 (20120308)   490535.95
3860488.59   215.09273 (20120308)
        490585.95   3860488.59   201.55919 (20120308)   490635.95
3860488.59   189.33774 (20120308)
        490685.95   3860488.59   177.34744 (20120308)   490735.95
3860488.59   166.75902 (20120308)
        490785.95   3860488.59   156.79250 (20120308)   490135.95
3860538.59   333.04721 (15020408)
        490185.95   3860538.59   313.07863 (15020408)   490235.95
3860538.59   286.91222 (15020408)
        490285.95   3860538.59   259.54273 (15020408)   490335.95
3860538.59   239.75436 (19022503)
        490385.95   3860538.59   224.00349 (19022503)   490435.95
3860538.59   210.57192 (16120801)
        490485.95   3860538.59   200.11937 (18120821)   490535.95
3860538.59   191.23443 (18120821)
        490585.95   3860538.59   183.51618 (20120308)   490635.95
3860538.59   177.21279 (20120308)
        490685.95   3860538.59   171.09302 (20120308)   490735.95
3860538.59   164.50974 (20120308)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
                                    INCLUDING SOURCE(S):   L0000260   , L0000261 , L0000262   , L0000263   , L0000264   ,
                 L0000265   , L0000266   , L0000267   , L0000268   , L0000269 , L0000270   , L0000271   , L0000272   ,
                 L0000273   , L0000274   , L0000275   , L0000276   , L0000277 , L0000278   , L0000279   , L0000280   ,
                 L0000281   , L0000282   , L0000283   , L0000284   , L0000285 , L0000286   , L0000287   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                               ** CONC OF PM_10   IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490785.95	3860538.59	158.19193	(20120308)	490135.95	3860588.59	324.64114	(18120708)
490185.95	3860588.59	307.76946	(18120708)	490235.95	3860588.59	290.53755	(18120708)
490285.95	3860588.59	266.15177	(18120708)	490335.95	3860588.59	238.06144	(18120708)
490385.95	3860588.59	226.13675	(15020408)	490435.95	3860588.59	215.66637	(15020408)
490485.95	3860588.59	201.99237	(15020408)	490535.95	3860588.59	186.00981	(15020408)
490585.95	3860588.59	170.75667	(19022503)	490635.95	3860588.59	162.24468	(19022503)
490685.95	3860588.59	152.99243	(19022503)	490735.95	3860588.59	145.82020	(16120801)
490785.95	3860588.59	138.94543	(18120821)	490135.95	3860638.59	307.48710	(18011522)
490185.95	3860638.59	283.12919	(18011522)	490235.95	3860638.59	258.69106	(20120318)
490285.95	3860638.59	245.03083	(20120318)	490335.95	3860638.59	240.26214	(18120708)
490385.95	3860638.59	230.92815	(18120708)	490435.95	3860638.59	216.59630	(18120708)
490485.95	3860638.59	199.99010	(18120708)	490535.95	3860638.59	182.71342	(18120708)
490585.95	3860638.59	172.92815	(15020408)	490635.95	3860638.59	166.04412	(15020408)
490685.95	3860638.59	157.42511	(15020408)	490735.95	3860638.59	147.44921	(15020408)
490785.95	3860638.59	137.70213	(15020408)	490135.95	3860688.59	284.93763	(19020204)
490185.95	3860688.59	266.93010	(18022523)	490235.95	3860688.59	257.65859	(18011721)
490285.95	3860688.59	236.68870	(18011522)	490335.95	3860688.59	219.58154	(18011522)
490385.95	3860688.59	205.76377	(20120318)	490435.95	3860688.59	197.46563	(20120318)
490485.95	3860688.59	190.05919	(18120708)	490535.95	3860688.59	186.10046	(18120708)
490585.95	3860688.59	178.73445	(18120708)	490635.95	3860688.59	168.92516	(18120708)
490685.95	3860688.59	157.69230	(18120708)	490735.95	3860688.59	144.76865	(18120708)
490785.95	3860688.59	137.54508	(15020408)	490135.95	3860738.59	274.02127	(15011619)

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        490185.95   3860738.59      255.04882  (18011122)                490235.95
3860738.59      234.13979  (19020204)
        490285.95   3860738.59      216.02568  (19020204)                490335.95
3860738.59      213.15048  (18011721)
        490385.95   3860738.59      203.83142  (18011721)                490435.95
3860738.59      194.77733  (18011522)
        490485.95   3860738.59      179.17428  (18011522)                490535.95
3860738.59      166.77724  (20120318)
        490585.95   3860738.59      161.36177  (20120318)                490635.95
3860738.59      154.14785  (18120708)
        490685.95   3860738.59      153.72868  (18120708)                490735.95
3860738.59      150.53015  (18120708)
        490785.95   3860738.59      145.46200  (18120708)                490135.95
3860788.59      255.16372  (18020819)
        490185.95   3860788.59      233.71007  (18020819)                490235.95
3860788.59      227.88747  (15011619)
        490285.95   3860788.59      215.64254  (18011122)                490335.95
3860788.59      199.47244  (18020124)
        490385.95   3860788.59      188.41985  (19020204)                490435.95
3860788.59      180.65141  (18022523)
        490485.95   3860788.59      178.02056  (18011721)                490535.95
3860788.59      167.76200  (18011522)
        490585.95   3860788.59      157.44881  (18011522)                490635.95
3860788.59      145.71833  (18011522)
        490685.95   3860788.59      138.90713  (20120318)                490735.95
3860788.59      136.53956  (20120318)
        490785.95   3860788.59      131.08578  (20120318)                489985.95
3860838.59      221.33906  (19120601)
        490035.95   3860838.59      213.40457  (16021120)                490085.95
3860838.59      203.54397  (18011823)
        490135.95   3860838.59      208.06975  (18020819)                490185.95
3860838.59      222.47736  (18020819)
        490235.95   3860838.59      217.22017  (18020819)                490285.95
3860838.59      200.36816  (15011619)
        490335.95   3860838.59      195.41435  (15011619)                490385.95
3860838.59      185.78311  (18011122)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 571
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING5 ***
                                   INCLUDING SOURCE(S):     L0000260    , L0000261
, L0000262    , L0000263    , L0000264    ,
                 L0000265    , L0000266    , L0000267    , L0000268    , L0000269
, L0000270    , L0000271    , L0000272    ,
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                 L0000273    , L0000274    , L0000275    , L0000276    , L0000277
, L0000278    , L0000279    , L0000280    ,
                 L0000281    , L0000282    , L0000283    , L0000284    , L0000285
, L0000286    , L0000287    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        490435.95   3860838.59      174.58873  (18020124)                490485.95
3860838.59      165.40050  (19020204)
        490535.95   3860838.59      155.36992  (15123001)                490585.95
3860838.59      152.46604  (18011721)
        490635.95   3860838.59      146.59807  (18011721)                490685.95
3860838.59      139.82715  (18011522)
        490735.95   3860838.59      133.50305  (18011522)                490785.95
3860838.59      124.91931  (18120921)
        490835.95   3860838.59      119.08509  (20120318)                489835.95
3860888.59      233.72848  (16122308)
        489885.95   3860888.59      220.43340  (16011801)                489935.95
3860888.59      210.95477  (18121521)
        489985.95   3860888.59      207.58881  (16022523)                490035.95
3860888.59      199.97918  (19120601)
        490085.95   3860888.59      191.47303  (16021120)                490135.95
3860888.59      182.11001  (18011823)
        490185.95   3860888.59      174.07604  (15120519)                490235.95
3860888.59      188.83528  (18020819)
        490285.95   3860888.59      195.45260  (18020819)                490335.95
3860888.59      186.68395  (18020819)
        490385.95   3860888.59      174.95735  (15011619)                490435.95
3860888.59      171.50904  (15011619)
        490485.95   3860888.59      163.90804  (18011122)                490535.95
3860888.59      153.84181  (18020124)
        490585.95   3860888.59      145.46923  (19020204)                490635.95
3860888.59      134.73315  (19020204)
        490685.95   3860888.59      132.18664  (18011721)                490735.95
3860888.59      130.29800  (18011721)
        490785.95   3860888.59      124.67701  (18011721)                490835.95
3860888.59      120.04863  (18011522)
        490885.95   3860888.59      114.80578  (18011522)                490935.95
3860888.59      108.05905  (18120921)
        489835.95   3860938.59      210.53989  (19022504)                489885.95
3860938.59      209.54257  (16122308)
        489935.95   3860938.59      199.29612  (16011801)                489985.95
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3860938.59      190.12145  (18121521)
        490035.95   3860938.59      187.59455  (16022523)                490085.95
3860938.59      179.94156  (19120601)
        490135.95   3860938.59      168.79602  (16021120)                490185.95
3860938.59      164.81924  (16021120)
        490235.95   3860938.59      158.08562  (18011823)                490285.95
3860938.59      157.16991  (18020819)
        490335.95   3860938.59      170.41566  (18020819)                490385.95
3860938.59      172.80608  (18020819)
        490435.95   3860938.59      163.71873  (18020819)                490485.95
3860938.59      155.27813  (15011619)
        490535.95   3860938.59      151.25490  (15011619)                490585.95
3860938.59      144.40122  (18011122)
        490635.95   3860938.59      135.74047  (18020124)                490685.95
3860938.59      128.95365  (19020204)
        490735.95   3860938.59      121.61329  (19020204)                490785.95
3860938.59      116.96183  (15123001)
        490835.95   3860938.59      116.25549  (18011721)                490885.95
3860938.59      114.18093  (18011721)
        490935.95   3860938.59      109.05645  (18011522)                489835.95
3860988.59      190.86751  (19122908)
        489885.95   3860988.59      192.56648  (16010323)                489935.95
3860988.59      189.51985  (16122308)
        489985.95   3860988.59      181.74079  (16011801)                490035.95
3860988.59      172.28293  (18121521)
        490085.95   3860988.59      170.59899  (16022523)                490135.95
3860988.59      162.47328  (19120601)
        490185.95   3860988.59      154.54346  (19120601)                490235.95
3860988.59      150.82878  (16021120)
        490285.95   3860988.59      143.99399  (18011823)                490335.95
3860988.59      137.55797  (15120519)
        490385.95   3860988.59      146.33547  (18020819)                490435.95
3860988.59      155.76154  (18020819)
        490485.95   3860988.59      153.90909  (18020819)                490535.95
3860988.59      143.00908  (18020819)
        490585.95   3860988.59      137.74510  (15011619)                490635.95
3860988.59      134.00200  (15011619)
        490685.95   3860988.59      128.40078  (18011122)                490735.95
3860988.59      121.08396  (18020124)
        490785.95   3860988.59      115.41452  (19020204)                490835.95
3860988.59      110.72278  (19020204)
        490885.95   3860988.59      105.55742  (15123001)                490935.95
3860988.59      103.82548  (18011721)
        489835.95   3861038.59      185.59385  (19122908)                489885.95
3861038.59      179.01898  (19022504)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING5 ***
INCLUDING SOURCE(S): L0000260 , L0000261 , L0000262 , L0000263 , L0000264 ,
L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 ,
L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 ,
L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
489935.95	3861038.59	176.66024	(16122308)	489985.95	3861038.59	170.37523	(16122308)
490035.95	3861038.59	165.56840	(16011801)	490085.95	3861038.59	156.77035	(18121521)
490135.95	3861038.59	155.47105	(16022523)	490185.95	3861038.59	147.25129	(19120601)
490235.95	3861038.59	142.54469	(19120601)	490285.95	3861038.59	137.41243	(16021120)
490335.95	3861038.59	130.28603	(16021120)	490385.95	3861038.59	127.52270	(18011823)
490435.95	3861038.59	124.58441	(18020819)	490485.95	3861038.59	136.90274	(18020819)
490535.95	3861038.59	140.68627	(18020819)	490585.95	3861038.59	136.42289	(18020819)
490635.95	3861038.59	125.62600	(18020819)	490685.95	3861038.59	123.07460	(15011619)
490735.95	3861038.59	119.43863	(15011619)	490785.95	3861038.59	115.24151	(18011122)
490835.95	3861038.59	109.59221	(18020124)	490885.95	3861038.59	104.77144	(18020124)
490935.95	3861038.59	101.32705	(19020204)	489835.95	3861088.59	172.99332	(16122718)
489885.95	3861088.59	168.79192	(19122908)	489935.95	3861088.59	165.23933	(19022504)
489985.95	3861088.59	162.73676	(16122308)	490035.95	3861088.59	153.27132	(16122308)

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        490085.95   3861088.59      151.69628  (16011801)                490135.95
3861088.59      144.06932  (18121521)
        490185.95   3861088.59      144.02330  (16022523)                490235.95
3861088.59      134.73772  (19120601)
        490285.95   3861088.59      132.08420  (19120601)                490335.95
3861088.59      125.38413  (16021120)
        490385.95   3861088.59      122.43010  (16021120)                490435.95
3861088.59      118.66519  (18011823)
        490485.95   3861088.59      113.29090  (19022404)                490535.95
3861088.59      118.23675  (18020819)
        490585.95   3861088.59      125.86625  (18020819)                490635.95
3861088.59      126.31352  (18020819)
        490685.95   3861088.59      121.00668  (18020819)                490735.95
3861088.59      111.12235  (18020819)
        490785.95   3861088.59      111.15752  (15011619)                490835.95
3861088.59      108.10150  (15011619)
        490885.95   3861088.59      104.62445  (18011122)                490935.95
3861088.59       99.75776  (18011122)
        489020.79   3862564.85       48.29297  (15020218)                489043.15
3862350.21       54.23963  (15020218)
        489072.96   3862287.60       57.12705  (15020218)                488980.55
3862078.92       63.09469  (19122903)
        489037.19   3862822.72       47.38479  (20022108)                489120.66
3863016.49       49.15993  (20022108)
        489037.19   3863350.37       46.02273  (20022108)

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 573
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
                                  INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                 L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                 L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                 L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
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  Y-COORD  |                                                    X-COORD (METERS)
  (METERS) |       489237.26               489256.56               489275.86
      489295.16               489314.46
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    503.01353 (16010219)    498.83723 (16010219)    488.74877 (16020420)
   475.00536 (15012608)    460.25364 (15012608)
 3859937.6 |    475.74992 (16010219)    472.99342 (16020420)    461.21820 (15012608)
   447.14065 (15012608)    441.35840 (16012217)
 3859918.2 |    454.96310 (16020420)    448.64892 (15012608)    437.43620 (15012608)
   422.50475 (16012217)    425.36077 (16012217)
 3859898.8 |    432.09645 (15012608)    425.92177 (15012608)    409.15111 (15012608)
   408.60264 (16012217)    409.20670 (16012217)
 3859879.4 |    411.17887 (15012608)    399.84178 (15012608)    388.34051 (16012217)
   393.56531 (16012217)    391.88329 (16012217)
 3859860.0 |    389.47375 (15012608)    373.20934 (15012608)    377.11997 (16012217)
   380.16581 (16012217)    376.65268 (16012217)
 3859840.5 |    366.83772 (15012608)    356.19956 (16012217)    366.31027 (16012217)
   367.38972 (16012217)    361.43020 (16012217)
 3859821.1 |    342.98759 (15012608)    348.20968 (16012217)    356.07442 (16012217)
   355.37204 (16012217)    347.03643 (16012217)
 3859801.7 |    325.10578 (16012217)    340.18266 (16012217)    345.18282 (16012217)
   342.55295 (16012217)    331.46215 (16012217)
 3859782.3 |    319.90903 (16012217)    331.82171 (16012217)    334.17421 (16012217)
   329.84432 (16012217)    320.19802 (18122220)
 3859762.9 |    314.07675 (16012217)    323.08508 (16012217)    323.23878 (16012217)
   316.32227 (16012217)    309.74153 (18122220)
 3859743.4 |    307.76632 (16012217)    314.06448 (16012217)    312.05946 (16012217)
   302.55570 (16012217)    300.56032 (18010221)
 3859724.0 |    301.17765 (16012217)    304.73923 (16012217)    300.38758 (16012217)
   292.87043 (18122220)    292.63555 (18010221)
 3859704.6 |    294.18376 (16012217)    295.47786 (16012217)    288.45555 (16012217)
   283.80211 (18122220)    284.83605 (18010221)
 3859685.2 |    286.78587 (16012217)    285.53551 (16012217)    276.04709 (16012217)
   274.40197 (18122220)    277.06393 (18010221)
 3859665.8 |    278.82901 (16012217)    275.09657 (16012217)    267.64798 (18122220)
   264.72450 (18122220)    269.36589 (18010221)
 3859646.4 |    270.65823 (16012217)    264.76624 (16012217)    260.51084 (18122220)
   258.20328 (18010221)    262.50490 (18010221)
 3859626.9 |    262.13614 (16012217)    254.20014 (16012217)    253.22144 (18122220)
   252.43609 (18010221)    255.54592 (18010221)
 3859607.5 |    253.28438 (16012217)    245.82290 (18122220)    245.57298 (18122220)
   246.65613 (18010221)    248.51055 (18010221)
 3859588.1 |    244.41446 (16012217)    239.88580 (18122220)    238.02580 (18122220)
   240.90392 (18010221)    241.62216 (18010221)
 3859568.7 |    235.14921 (16012217)    233.77224 (18122220)    230.40762 (18122220)
   235.18736 (18010221)    234.83978 (18010221)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING6 ***
                                INCLUDING SOURCE(S):   L0000288   , L0000289
, L0000290   , L0000291   , L0000292   ,
                 L0000293   , L0000294   , L0000295   , L0000296   , L0000297
, L0000298   , L0000299   , L0000300   ,
                 L0000301   , L0000302   , L0000303   , L0000304   , L0000305
, L0000306   , L0000307   , L0000308   ,
                 L0000309   , L0000310   , L0000311   , L0000312   , L0000313
, L0000314   , L0000315   , L0000316   ,

                                 *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489333.76   489353.06   489372.36
      489391.66   489410.96
 -
- -

 3859957.1 | 459.09559 (16012217)   457.35854 (16012217)   450.60345 (16012217)
   445.22160 (20040918)   441.91415 (20040918)
 3859937.6 | 440.72465 (16012217)   435.90356 (16012217)   434.97104 (20040918)
   436.23467 (20040918)   436.32561 (20040918)
 3859918.2 | 422.83979 (16012217)   415.12797 (16012217)   417.54876 (20040918)
   419.41492 (20040918)   416.61942 (20040918)
 3859898.8 | 404.11274 (16012217)   394.43818 (18010221)   402.40385 (20040918)
   410.32406 (20040918)   406.92864 (20040918)
 3859879.4 | 383.72654 (16012217)   380.19331 (18010221)   387.87637 (20040918)
   396.03116 (20040918)   397.70145 (20040918)
 3859860.0 | 366.06840 (16012217)   367.00009 (18010221)   373.72530 (20040918)
   381.99633 (20040918)   383.33870 (20040918)
 3859840.5 | 353.46094 (18010221)   354.64481 (18010221)   360.41385 (20040918)
   368.68872 (20040918)   369.73264 (20040918)
 3859821.1 | 342.84339 (18010221)   343.03962 (18010221)   347.98396 (20040918)
   356.17194 (20040918)   356.82362 (20040918)
 3859801.7 | 332.05796 (18010221)   331.56408 (18010221)   336.29256 (20040918)
   344.20204 (20040918)   344.29395 (20040918)
 3859782.3 | 322.01075 (18010221)   320.41849 (18010221)   325.32101 (20040918)
   333.10473 (20040918)   332.80373 (20040918)

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 3859762.9 |    312.98242 (18010221)    309.79457 (18010221)    315.03061 (20040918)
   323.04003 (20040918)    322.87708 (20040918)
 3859743.4 |    303.69932 (18010221)    299.59370 (18010221)    305.29656 (20040918)
   313.07600 (20040918)    312.90499 (20040918)
 3859724.0 |    294.64828 (18010221)    289.38887 (18010221)    296.08648 (20040918)
   303.50179 (20040918)    303.13325 (20040918)
 3859704.6 |    285.40929 (18010221)    279.87624 (19011424)    287.32316 (20040918)
   294.36412 (20040918)    293.57800 (20040918)
 3859685.2 |    276.45367 (18010221)    271.68747 (19011424)    279.03068 (20040918)
   285.76170 (20040918)    284.80675 (20040918)
 3859665.8 |    267.65315 (18010221)    263.69900 (19011424)    271.13354 (20040918)
   277.61471 (20040918)    276.58638 (20040918)
 3859646.4 |    259.62584 (18010221)    256.16127 (19011424)    263.60883 (20040918)
   269.71235 (20040918)    268.56995 (20040918)
 3859626.9 |    251.88133 (19011424)    248.64628 (19011424)    256.43090 (20040918)
   262.17461 (20040918)    260.92854 (16020819)
 3859607.5 |    245.34402 (19011424)    242.22920 (16122922)    249.58114 (20040918)
   254.96007 (20040918)    254.13756 (16020819)
 3859588.1 |    238.98771 (19011424)    236.37030 (16122922)    242.98425 (20040918)
   248.03116 (20040918)    247.54088 (16020819)
 3859568.7 |    232.75339 (19011424)    230.70811 (16122922)    236.60405 (20040918)
   241.33627 (20040918)    241.22456 (16020819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 575
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
                                  INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489430.26               489449.56              489468.86
      489488.16              489507.46
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489526.76	489546.06	489565.36	489584.66	489603.96
3859957.1	445.29569 (15121808)	462.01117 (15121808)	465.83500 (15121808)	443.87598 (15121808)	421.61652 (20121324)
3859937.6	466.43230 (15121808)	460.54386 (15121808)	454.21217 (15121808)	447.69871 (15013024)	457.16174 (15013024)
3859918.2	452.67345 (15121808)	448.38101 (15121808)	446.29754 (15121808)	435.20990 (15121808)	436.93603 (15013024)
3859898.8	432.33538 (15121808)	437.86684 (15121808)	430.90662 (15121808)	426.04843 (15121808)	410.70797 (15121808)
3859879.4	403.51993 (15121808)	420.14687 (15121808)	418.44098 (15121808)	414.23360 (15121808)	404.13313 (15121808)
3859860.0	367.05236 (16010405)	391.18235 (15121808)	397.88097 (15121808)	400.16084 (15121808)	396.86350 (15121808)
3859840.5	353.43716 (16010405)	363.27026 (15121808)	380.38740 (15121808)	386.55446 (15121808)	386.41454 (15121808)
3859821.1	339.01100 (16010405)	344.95132 (16010405)	358.98805 (15121808)	371.62121 (15121808)	375.14113 (15121808)
3859801.7	327.03645 (18120603)	332.69365 (16010405)	335.83851 (15121808)	351.51570 (15121808)	361.25506 (15121808)
3859782.3	318.26881 (18120603)	320.42217 (16010405)	324.70537 (16010405)	331.39693 (15121808)	345.40196 (15121808)
3859762.9	310.71467 (18120603)	307.54743 (16010405)	314.10873 (16010405)	314.83343 (16010405)	329.60866 (15121808)
3859743.4	303.50752 (18120603)	295.32049 (15112019)	302.92327 (16010405)	305.22489 (16010405)	313.36067 (15121808)

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 3859724.0 |    296.57090 (18120603)    288.58613 (19022322)    291.51857 (16010405)
   295.77384 (16010405)    294.29220 (16122521)
 3859704.6 |    289.87234 (18120603)    281.05855 (19022322)    280.27817 (16010405)
   286.23925 (16010405)    286.01547 (16010405)
 3859685.2 |    282.67595 (18120603)    274.66818 (19022322)    270.32032 (15112019)
   276.37751 (16010405)    278.11801 (16010405)
 3859665.8 |    275.61559 (18120603)    267.22592 (19022322)    263.75291 (19022322)
   266.05886 (16010405)    270.01330 (16010405)
 3859646.4 |    268.67006 (18120603)    261.87119 (18120603)    257.75902 (19022322)
   255.61754 (16010405)    261.71222 (16010405)
 3859626.9 |    261.83883 (18120603)    256.93293 (18120603)    253.59960 (19022322)
   248.65400 (16102723)    252.88028 (16010405)
 3859607.5 |    255.03011 (18120603)    251.37587 (18120603)    248.38758 (19022322)
   243.97166 (16102723)    243.95090 (16010405)
 3859588.1 |    248.37116 (18120603)    246.03485 (18120603)    242.30391 (19022322)
   238.58597 (19022322)    235.34664 (18012320)
 3859568.7 |    239.40343 (18120603)    238.12609 (18120603)    234.46943 (19022322)
   233.23861 (19022322)    228.61753 (18012320)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 577
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
                                 INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489623.26
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    389.94547 (20121324)
 3859937.6 |    424.09928 (20121324)
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 3859918.2 |    436.62044 (15013024)
 3859898.8 |    428.61816 (15013024)
 3859879.4 |    400.30154 (15013024)
 3859860.0 |    384.36358 (15121808)
 3859840.5 |    380.15620 (15121808)
 3859821.1 |    372.99966 (15121808)
 3859801.7 |    363.76323 (15121808)
 3859782.3 |    352.03578 (15121808)
 3859762.9 |    338.98793 (15121808)
 3859743.4 |    323.79193 (15121808)
 3859724.0 |    306.30934 (15121808)
 3859704.6 |    291.70922 (16122521)
 3859685.2 |    281.73639 (16122521)
 3859665.8 |    270.30877 (16122521)
 3859646.4 |    262.26307 (16010405)
 3859626.9 |    254.78742 (16010405)
 3859607.5 |    247.53286 (16010405)
 3859588.1 |    240.32890 (16010405)
 3859568.7 |    232.72419 (16010405)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 578
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
                                  INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489260.34              489284.99              489309.64
      489334.29              489358.94
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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 3859173.4 |    153.69604 (19011424)    150.30848 (19011424)    154.40138 (16122922)
   159.94561 (20040918)    163.00448 (20040918)
 3859151.9 |    150.28167 (19011424)    144.80750 (16122922)    151.41167 (16122922)
   156.97158 (20040918)    159.67683 (20040918)
 3859130.3 |    146.92965 (19011424)    142.31740 (16122922)    148.56614 (16122922)
   154.08329 (20040918)    158.37904 (20040918)
 3859108.7 |    143.61860 (19011424)    140.11069 (16122922)    145.86045 (16122922)
   153.22797 (20040918)    155.36188 (20040918)
 3859087.1 |    140.33734 (19011424)    138.18182 (16122922)    143.20981 (16122922)
   150.48929 (20040918)    154.14636 (20040918)
 3859065.6 |    137.08046 (19011424)    136.14765 (16122922)    141.96479 (16122922)
   149.64949 (20040918)    151.18034 (20040918)
 3859044.0 |    134.92152 (19011424)    135.45987 (16122922)    139.49413 (16122922)
   147.05180 (20040918)    150.17944 (20040918)
 3859022.4 |    131.70597 (19011424)    133.47551 (16122922)    138.26954 (16122922)
   146.03017 (20040918)    147.37407 (20040918)
 3859000.9 |    129.54828 (19011424)    132.74915 (16122922)    135.81286 (16122922)
   143.57164 (20040918)    146.27955 (20040918)
 3858979.3 |    127.44117 (19011424)    131.96775 (16122922)    134.60359 (16122922)
   141.17670 (20040918)    143.63006 (20040918)
 3858957.7 |    124.29373 (19011424)    129.93431 (16122922)    132.57764 (20040918)
   138.65175 (20040918)    140.89441 (20040918)
 3858936.1 |    121.19074 (19011424)    128.05871 (16122922)    131.74848 (20040918)
   137.95114 (20040918)    140.06451 (20040918)
 3858914.6 |    119.98863 (16122922)    127.28287 (16122922)    131.06190 (20040918)
   137.20510 (20040918)    137.63031 (20040918)
 3858893.0 |    118.71816 (16122922)    126.45786 (16122922)    129.68426 (20040918)
   135.24979 (20040918)    135.09462 (20040918)
 3858871.4 |    117.30748 (16122922)    124.53177 (16122922)    128.76635 (20040918)
   134.29097 (20040918)    134.51461 (20040918)
 3858849.9 |    115.89705 (16122922)    122.76669 (16122922)    126.84755 (20040918)
   132.23932 (20040918)    132.26788 (20040918)
 3858828.3 |    115.38960 (16122922)    121.02186 (16122922)    125.17071 (20040918)
   130.03471 (20040918)    130.08005 (20040918)
 3858806.7 |    114.13745 (16122922)    120.09821 (16122922)    123.52579 (20040918)
   128.08378 (20040918)    129.21959 (20040918)
 3858785.2 |    113.58266 (16122922)    118.41034 (16122922)    121.71804 (20040918)
   126.17777 (20040918)    126.97007 (20040918)
 3858763.6 |    112.48233 (16122922)    116.86882 (16122922)    121.10241 (20040918)
   125.55222 (20040918)    125.12641 (20040918)
 3858742.0 |    112.13719 (16122922)    117.00183 (16122922)    120.80267 (20040918)
   125.25341 (20040918)    125.92740 (20040918)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 579
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489383.59	489408.24	489432.89	489457.54	489482.19
3859173.4	159.13473 (20040918)	162.48871 (16020819)	162.19543 (16020819)	156.65937 (16122205)	157.73232 (16122205)
3859151.9	155.69488 (20040918)	160.77778 (16020819)	159.10270 (16020819)	154.59383 (16122205)	154.96309 (16122205)
3859130.3	154.17843 (20040918)	157.68664 (16020819)	157.50752 (16020819)	151.46784 (16122205)	153.47555 (16122205)
3859108.7	150.94251 (20040918)	154.69506 (16020819)	156.00965 (16020819)	149.42095 (16122205)	150.79700 (16122205)
3859087.1	147.77253 (20040918)	153.20499 (16020819)	153.19130 (16020819)	147.99503 (16020819)	149.27686 (16122205)
3859065.6	146.51462 (20040918)	151.78649 (16020819)	151.79294 (16020819)	145.50645 (16020819)	146.65439 (16122205)
3859044.0	145.35132 (20040918)	150.27235 (16020819)	149.12502 (16020819)	143.07942 (16020819)	144.12737 (16122205)
3859022.4	142.47848 (20040918)	147.41437 (16020819)	146.49746 (16020819)	140.70975 (16020819)	141.70021 (16122205)
3859000.9	141.46039 (20040918)	145.91667 (16020819)	145.19871 (16020819)	138.40970 (16020819)	139.23205 (16122205)
3858979.3	140.49157 (20040918)	143.39411 (16020819)	142.75211 (16020819)	136.17941 (16020819)	137.72336 (16122205)
3858957.7	137.73382 (20040918)	140.94451 (16020819)	140.37557 (16020819)	134.00578 (16020819)	135.38432 (16122205)
3858936.1	135.28263 (20040918)	139.52227 (16020819)	139.29623 (16020819)	133.09882 (16020819)	133.15431 (16122205)
3858914.6	134.32566 (20040918)	137.20583 (16020819)	137.04497 (16020819)	131.06044 (16020819)	131.60148 (16122205)
3858893.0	131.77732 (20040918)	135.05161 (16020819)	134.85552 (16020819)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	489506.84	489531.49	489556.14	489580.79	489605.44
3859173.4	151.74988 (16122205)	151.46569 (18120603)	162.99191 (18120603)	168.01854 (18120603)	163.78367 (18120603)
3859151.9	150.73598 (16122205)	146.22807 (18120603)	159.67329 (18120603)	164.74006 (18120603)	161.65859 (18120603)

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 3859130.3 |    148.49485 (16122205)    143.22601 (19102618)    155.25669 (18120603)
   161.31593 (18120603)    159.47064 (18120603)
 3859108.7 |    146.30168 (16122205)    140.51005 (19102618)    150.75560 (18120603)
   157.91000 (18120603)    158.56444 (18120603)
 3859087.1 |    144.22690 (16122205)    137.74642 (19102618)    146.26712 (18120603)
   155.44470 (18120603)    156.22828 (18120603)
 3859065.6 |    142.10699 (16122205)    134.99635 (19102618)    142.41165 (18120603)
   151.87959 (18120603)    154.88196 (18120603)
 3859044.0 |    140.01845 (16122205)    132.26273 (19102618)    138.01481 (18120603)
   148.27802 (18120603)    152.27166 (18120603)
 3859022.4 |    139.09908 (16122205)    130.48617 (19102618)    133.50785 (18120603)
   145.23514 (18120603)    149.58141 (18120603)
 3859000.9 |    137.10333 (16122205)    128.31244 (16122205)    129.21683 (18120603)
   141.53564 (18120603)    147.58543 (18120603)
 3858979.3 |    135.13534 (16122205)    127.85580 (16122205)    127.20233 (19102618)
   137.73923 (18120603)    144.61676 (18120603)
 3858957.7 |    133.18439 (16122205)    126.37470 (16122205)    126.01869 (19102618)
   133.94622 (18120603)    141.58775 (18120603)
 3858936.1 |    132.24002 (16122205)    124.91478 (16122205)    123.93669 (19102618)
   130.68343 (18120603)    138.69614 (18120603)
 3858914.6 |    130.31513 (16122205)    123.48493 (16122205)    121.85720 (19102618)
   127.21134 (18120603)    136.20466 (18120603)
 3858893.0 |    128.41408 (16122205)    123.03621 (16122205)    119.70171 (19102618)
   123.48579 (18120603)    133.76464 (18120603)
 3858871.4 |    127.53301 (16122205)    122.56655 (16122205)    118.24610 (19102618)
   119.72895 (18120603)    130.69785 (18120603)
 3858849.9 |    126.48140 (16122205)    121.16605 (16122205)    116.58124 (19102618)
   117.13206 (19102618)    127.37386 (18120603)
 3858828.3 |    124.68964 (16122205)    120.64178 (16122205)    114.48423 (19102618)
   115.44268 (19102618)    124.07225 (18120603)
 3858806.7 |    123.56983 (16122205)    120.04716 (16122205)    112.77628 (19102618)
   113.82593 (19102618)    120.52363 (18120603)
 3858785.2 |    122.36307 (16122205)    119.94991 (16122205)    114.98353 (15120819)
   113.65827 (19102618)    116.52792 (18120603)
 3858763.6 |    121.37277 (16122205)    122.35934 (15120819)    116.78438 (15120819)
   112.23372 (19102618)    113.16616 (18120603)
 3858742.0 |    122.19704 (15120819)    120.64475 (15120819)    115.44325 (15120819)
   110.54682 (19102618)    110.30190 (19102618)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 581
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
                                   INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
```

```
                 L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                 L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                 L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489630.09               489654.74               489679.39
      489704.04               489728.69
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3859173.4 |    162.53714 (19022322)    160.93063 (19022322)    159.85571 (15112019)
   158.13282 (18012320)    160.07786 (16010405)
 3859151.9 |    158.73941 (19022322)    158.72092 (19022322)    156.86918 (15112019)
   153.92192 (18012320)    155.70574 (18012320)
 3859130.3 |    154.83210 (19022322)    156.31463 (19022322)    153.75583 (15112019)
   153.25855 (15112019)    154.02696 (18012320)
 3859108.7 |    150.76948 (19022322)    154.85627 (19022322)    151.45887 (15112019)
   151.28774 (15112019)    150.94806 (18012320)
 3859087.1 |    149.84145 (18120603)    151.99730 (19022322)    149.21086 (19022322)
   149.15200 (15112019)    148.04086 (18012320)
 3859065.6 |    148.46746 (18120603)    149.78594 (19022322)    148.69705 (19022322)
   147.71878 (15112019)    144.41441 (15112019)
 3859044.0 |    148.23094 (18120603)    146.48847 (19022322)    146.85989 (19022322)
   145.00965 (15112019)    144.32987 (15112019)
 3859022.4 |    146.66317 (18120603)    143.58775 (19022322)    145.67514 (19022322)
   142.85955 (15112019)    142.77181 (15112019)
 3859000.9 |    146.01551 (18120603)    139.90966 (19022322)    144.05070 (19022322)
   140.87474 (19022322)    142.82829 (15112019)
 3858979.3 |    144.16760 (18120603)    138.60267 (18120603)    141.99128 (19022322)
   140.48893 (19022322)    141.25404 (15112019)
 3858957.7 |    143.16524 (18120603)    137.64459 (18120603)    139.14330 (19022322)
   138.92187 (19022322)    138.45590 (15112019)
 3858936.1 |    141.09061 (18120603)    137.56376 (18120603)    136.43416 (19022322)
   137.82824 (19022322)    136.08843 (15112019)
 3858914.6 |    139.59483 (18120603)    137.27739 (18120603)    133.32220 (19022322)
   136.62943 (19022322)    134.63014 (19022322)
 3858893.0 |    137.31204 (18120603)    135.92234 (18120603)    130.27350 (18120603)
   134.59230 (19022322)    134.08177 (19022322)
 3858871.4 |    135.51561 (18120603)    135.80437 (18120603)    131.13899 (18120603)
   131.75895 (19022322)    132.63239 (19022322)
 3858849.9 |    133.38711 (18120603)    135.55047 (18120603)    131.80830 (18120603)
```

 3858979.3 | 137.59662 (15112019)
 3858957.7 | 138.30690 (15112019)
 3858936.1 | 138.38743 (15112019)
 3858914.6 | 136.99364 (15112019)
 3858893.0 | 134.54454 (15112019)
 3858871.4 | 131.97372 (15112019)
 3858849.9 | 129.09000 (15112019)
 3858828.3 | 126.76322 (19022322)
 3858806.7 | 125.75613 (19022322)
 3858785.2 | 124.60732 (19022322)
 3858763.6 | 123.30813 (19022322)
 3858742.0 | 121.81489 (19022322)
 *** AERMOD - VERSION 23132 ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054 Lennwood\Lennwood\Lennwo ***   07/17/24
 *** AERMET - VERSION 19191 ***   ***   ***   01:16:45

                                   PAGE 583
 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
                                   INCLUDING SOURCE(S):   L0000288   , L0000289 , L0000290   , L0000291   , L0000292   ,
                                    L0000293   , L0000294   , L0000295   , L0000296   , L0000297 , L0000298   , L0000299   , L0000300   ,
                                    L0000301   , L0000302   , L0000303   , L0000304   , L0000305 , L0000306   , L0000307   , L0000308   ,
                                    L0000309   , L0000310   , L0000311   , L0000312   , L0000313 , L0000314   , L0000315   , L0000316   ,

                                    *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

  Y-COORD | X-COORD (METERS)
  (METERS) | 488584.66   488614.48   488644.30
      488674.12   488703.94
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  110.97583 (15012608)    101.72014 (15012608)
 3858805.3 |    114.52029 (15012608)    117.03207 (15012608)    112.85706 (15012608)
  104.99240 (15012608)     95.16659 (18010719)
 3858780.3 |    113.38988 (15012608)    112.67043 (15012608)    107.63461 (15012608)
   98.25090 (15012608)     94.48614 (19121917)
 3858755.4 |    111.26985 (15012608)    108.54688 (15012608)    101.84775 (15012608)
   91.70572 (18010719)     92.87114 (19121917)
 3858730.5 |    108.28019 (15012608)    103.76460 (15012608)     95.65130 (15012608)
   89.41188 (18010719)     90.77587 (19121917)
 3858705.5 |    104.52234 (15012608)     98.42158 (15012608)     88.93507 (15012608)
   88.67433 (19121917)     88.26448 (19121917)
 3858680.6 |    100.12129 (15012608)     92.67777 (15012608)     87.04907 (19121917)
   87.77770 (19121917)     85.54691 (19121917)
 3858655.7 |     95.19394 (15012608)     86.65758 (15012608)     85.01766 (19121917)
   85.54184 (19121917)     82.28982 (19121917)
 3858630.8 |     89.35110 (15012608)     82.95223 (18010719)     84.08146 (19121917)
   82.95729 (19121917)     79.56183 (20090924)
 3858605.8 |     83.45372 (15012608)     82.55519 (19121917)     82.63078 (19121917)
   80.06597 (19121917)     77.97948 (20090924)
 3858580.9 |     81.15443 (18010719)     81.38745 (19121917)     80.71096 (19121917)
   77.06443 (19121917)     76.58196 (20090924)
 3858556.0 |     79.26615 (19121917)     79.79465 (19121917)     78.08165 (19121917)
   75.76781 (20090924)     75.62400 (15013017)
 3858531.0 |     79.47760 (19121917)     78.63286 (19121917)     75.42769 (19121917)
   74.17231 (20090924)     75.26297 (15013017)
 3858506.1 |     78.03579 (19121917)     76.24506 (19121917)     73.72187 (20090924)
   72.82614 (20090924)     75.16640 (15013017)
 3858481.2 |     76.72496 (19121917)     73.90615 (19121917)     73.01538 (20090924)
   72.54966 (15013017)     74.67570 (15013017)
 3858456.2 |     75.01090 (19121917)     71.78449 (20090924)     71.89743 (20090924)
   72.70512 (15013017)     73.81119 (15013017)
 3858431.3 |     72.93727 (19121917)     71.31709 (20090924)     69.95875 (20090924)
   72.00078 (15013017)     72.16864 (15013017)
 3858406.4 |     70.15143 (19121917)     70.47010 (20090924)     69.59483 (15013017)
   70.96823 (15013017)     71.90509 (20040923)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 584
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
                                 INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
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, L0000306    , L0000307    , L0000308    ,
                L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       488733.76              488763.58              488793.40
      488823.22              488853.04
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3858905.0 |    112.94030 (15012608)    105.74934 (19121917)    105.30013 (19121917)
   100.82421 (19121917)     99.45464 (15013017)
 3858880.0 |    104.19313 (15012608)    103.74356 (19121917)    101.69817 (19121917)
    97.12511 (20090924)     97.85979 (15013017)
 3858855.1 |    101.56771 (19121917)    100.37104 (19121917)     97.72519 (19121917)
    94.61263 (20090924)     96.49307 (15013017)
 3858830.2 |     98.35102 (19121917)     97.88428 (19121917)     93.42822 (19121917)
    92.18080 (15013017)     94.69895 (15013017)
 3858805.3 |     96.78012 (19121917)     94.63240 (19121917)     90.96003 (20090924)
    91.98635 (15013017)     92.89504 (15013017)
 3858780.3 |     94.57621 (19121917)     90.77662 (19121917)     88.98090 (20090924)
    91.27084 (15013017)     94.15289 (16020520)
 3858755.4 |     91.53765 (19121917)     87.88699 (20090924)     88.09243 (15013017)
    90.06223 (15013017)     95.40122 (16020520)
 3858730.5 |     88.17213 (19121917)     85.84280 (20090924)     87.26960 (15013017)
    87.93297 (15013017)     94.19684 (16020520)
 3858705.5 |     84.53038 (19121917)     83.49625 (20090924)     86.07330 (15013017)
    87.93429 (16020520)     93.69570 (16020520)
 3858680.6 |     82.17630 (20090924)     82.58086 (15013017)     84.50685 (15013017)
    88.25912 (16020520)     96.16934 (16012217)
 3858655.7 |     80.75117 (20090924)     82.43430 (15013017)     83.04641 (15013017)
    88.33005 (16020520)     96.16589 (16012217)
 3858630.8 |     79.09745 (15013017)     81.33097 (15013017)     82.47381 (16020520)
    88.95188 (16020520)     95.92136 (16012217)
 3858605.8 |     78.75513 (15013017)     80.34958 (15013017)     83.89404 (16020520)
    89.92139 (16012217)     96.33890 (16012217)
 3858580.9 |     78.61243 (15013017)     78.58224 (15013017)     84.89917 (16020520)
    91.25671 (16012217)     96.41324 (16012217)
 3858556.0 |     78.07842 (15013017)     79.33571 (16020520)     85.78683 (16020520)
    91.23591 (16012217)     95.13374 (16012217)
 3858531.0 |     76.63332 (15013017)     80.76503 (16020520)     85.28351 (16012217)
    90.80395 (16012217)     93.60555 (16012217)
 3858506.1 |     75.43572 (15013017)     80.97139 (16020520)     86.59690 (16012217)
    91.11048 (16012217)     92.00675 (16012217)
```

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S):   L0000288   , L0000289 , L0000290   , L0000291   , L0000292   ,
L0000293   , L0000294   , L0000295   , L0000296   , L0000297 , L0000298   , L0000299   , L0000300   ,
L0000301   , L0000302   , L0000303   , L0000304   , L0000305 , L0000306   , L0000307   , L0000308   ,
L0000309   , L0000310   , L0000311   , L0000312   , L0000313 , L0000314   , L0000315   , L0000316   ,

*** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	488882.86	488912.68	488942.50	488972.32	489002.14
3858905.0	100.89225 (15013017)	107.02266 (16020520)	113.69122 (16012217)	120.21168 (16012217)	120.37207 (16012217)
3858880.0	99.07888 (16020520)	107.67113 (16020520)	114.15657 (16012217)	117.82959 (16012217)	116.48180 (16012217)
3858855.1	99.66956 (16020520)	108.20185 (16012217)	114.13475 (16012217)	116.06100 (16012217)	113.13627 (16012217)
3858830.2	100.85170 (16020520)	109.37670 (16012217)	113.71246 (16012217)	114.90538 (16012217)	108.89093 (16012217)
3858805.3	100.51523 (16020520)	108.76649 (16012217)	112.80796 (16012217)	113.45644 (16012217)	105.14776 (16012217)
3858780.3	102.87241 (16012217)	110.34802 (16012217)	111.56371 (16012217)		

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
                                  INCLUDING SOURCE(S):   L0000288   , L0000289 , L0000290   , L0000291   , L0000292   ,
                  L0000293   , L0000294   , L0000295   , L0000296   , L0000297 , L0000298   , L0000299   , L0000300   ,
                  L0000301   , L0000302   , L0000303   , L0000304   , L0000305 , L0000306   , L0000307   , L0000308   ,
                  L0000309   , L0000310   , L0000311   , L0000312   , L0000313 , L0000314   , L0000315   , L0000316   ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489031.96	489061.78	489091.60	489121.42	489151.24
3858905.0	113.82115 (16012217)	118.81290 (18122220)	119.09461 (18122220)	115.19072 (18010221)	122.97289 (18010221)
3858880.0	112.76358 (18122220)	117.80964 (18122220)	115.78814 (18122220)	115.35962 (18010221)	122.28163 (18010221)
3858855.1	111.72843 (18122220)	115.43260 (18122220)	112.39450 (18122220)	114.54543 (18010221)	121.33590 (18010221)
3858830.2	110.55084 (18122220)	112.97024 (18122220)	109.85922 (18122220)	115.56074 (18010221)	119.01143 (18010221)
3858805.3	110.25883 (18122220)	111.46392 (18122220)	106.28332 (18122220)	113.18245 (18010221)	117.98367 (18010221)
3858780.3	109.80932 (18122220)	108.72987 (18122220)	104.32617 (18010221)	112.75784 (18010221)	115.52230 (18010221)
3858755.4	108.04611 (18122220)	106.82620 (18122220)	104.94945 (18010221)	111.45711 (18010221)	114.21513 (18010221)
3858730.5	105.92010 (18122220)	104.78123 (18122220)	105.27616 (18010221)	110.94238 (18010221)	111.87857 (18010221)
3858705.5	103.65972 (18122220)	101.56791 (18122220)	103.68439 (18010221)	110.30493 (18010221)	110.43715 (18010221)
3858680.6	102.26908 (18122220)	97.51679 (18122220)	102.49398 (18010221)	108.32629 (18010221)	106.68689 (18010221)
3858655.7	99.83308 (18122220)	95.23497 (18122220)	101.75420 (18010221)	105.43131 (18010221)	104.07973 (18010221)
3858630.8	98.16772 (18122220)	94.67286 (18010221)	101.66763 (18010221)	103.47072 (18010221)	102.37181 (19011424)
3858605.8	95.54076 (18122220)	94.36972 (18010221)	101.46073 (18010221)	102.56597 (18010221)	101.30711 (19011424)
3858580.9	92.84979 (18122220)	94.07500 (18010221)	100.30099 (18010221)	101.69019 (18010221)	101.05154 (19011424)
3858556.0	90.96191 (18122220)	94.37364 (18010221)	99.04833 (18010221)	99.81213 (18010221)	100.36005 (19011424)
3858531.0	88.94414 (18122220)	93.86870 (18010221)	98.44140 (18010221)	97.77528 (18010221)	99.04286 (19011424)
3858506.1	86.10283 (18122220)	93.95896 (18010221)	97.05122 (18010221)	95.61159 (18010221)	97.67918 (19011424)
3858481.2	86.06540 (18010221)	93.26542 (18010221)	95.71685 (18010221)	94.44322 (18010221)	96.85938 (19011424)
3858456.2	86.57497 (18010221)	92.47257 (18010221)	94.91055 (18010221)	93.21199 (18010221)	95.43951 (19011424)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 , L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 , L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 , L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489181.06
3858905.0	124.28034 (18010221)
3858880.0	122.37164 (18010221)
3858855.1	119.36380 (18010221)
3858830.2	117.87705 (19011424)
3858805.3	117.16413 (19011424)
3858780.3	115.51737 (19011424)
3858755.4	113.69396 (19011424)
3858730.5	112.79733 (19011424)
3858705.5	111.12004 (19011424)
3858680.6	109.28302 (19011424)
3858655.7	107.31021 (19011424)
3858630.8	105.21625 (19011424)
3858605.8	103.30568 (19011424)
3858580.9	102.23236 (19011424)
3858556.0	100.20275 (19011424)
3858531.0	99.06522 (19011424)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
                                  INCLUDING SOURCE(S):   L0000288   , L0000289 , L0000290   , L0000291   , L0000292   ,
                 L0000293   , L0000294   , L0000295   , L0000296   , L0000297 , L0000298   , L0000299   , L0000300   ,
                 L0000301   , L0000302   , L0000303   , L0000304   , L0000305 , L0000306   , L0000307   , L0000308   ,
                 L0000309   , L0000310   , L0000311   , L0000312   , L0000313 , L0000314   , L0000315   , L0000316   ,

                                   *** NETWORK ID: UCART4   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489386.10   489460.62   489535.14
      489609.66   489684.18
 -

 3861675.8 | 67.72831 (15010420)   73.28401 (15010420)   72.47081 (19121219)
    73.24371 (16020720)   72.19144 (16020722)
 3861650.6 | 69.42312 (15010420)   74.79753 (20122019)   74.57220 (19121219)
    75.43577 (16020720)   74.36022 (16020722)
 3861625.5 | 71.11391 (15010420)   76.15784 (20122019)   76.18798 (19121219)
    77.19878 (16020720)   76.32006 (16020722)
 3861600.3 | 72.71929 (15010420)   78.37933 (20122019)   77.75941 (19121219)
    78.98232 (16020720)   78.76737 (16020722)
 3861575.2 | 75.50527 (15010420)   79.92693 (20122019)   79.19381 (19121219)
    80.78411 (16020720)   80.65805 (16020722)
 3861550.1 | 77.35762 (15010420)   81.69836 (20122019)   81.18026 (19121219)
    82.42218 (16020720)   81.49418 (16020722)
 3861524.9 | 79.02430 (15010420)   83.71402 (20122019)   83.04205 (19121219)
    83.87649 (16020720)   82.68787 (16020722)

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 3861499.8 |     80.75076 (15010420)     85.61641 (20122019)     84.75232 (19121219)
    85.60190 (16020720)     84.44897 (16020722)
 3861474.6 |     82.54004 (15010420)     87.48721 (20122019)     86.49181 (19121219)
    87.42484 (16020720)     86.35770 (16020722)
 3861449.5 |     84.20324 (15010420)     89.42090 (20122019)     88.26709 (19121219)
    88.94447 (16020720)     87.36386 (18011523)
 3861424.4 |     86.12099 (15010420)     91.52570 (20122019)     89.97370 (19121219)
    90.33824 (16020720)     89.30286 (18011523)
 3861399.2 |     88.11148 (15010420)     93.48811 (20122019)     91.60190 (19121219)
    92.23053 (18020121)     91.16361 (18011523)
 3861374.1 |     90.07177 (15010420)     95.39004 (20122019)     93.47228 (19121219)
    94.27457 (18020121)     93.14914 (16122202)
 3861348.9 |     92.10497 (15010420)     97.46350 (20122019)     95.37660 (19121219)
    96.27882 (16020722)     95.68605 (16122202)
 3861323.8 |     94.21496 (15010420)     99.97026 (20122019)     97.55004 (19121219)
    99.10885 (16020722)     98.35611 (16122202)
 3861298.7 |     96.52462 (15010420)    102.45286 (20122019)    100.07525 (16020720)
   102.06770 (16020722)    101.40487 (16122202)
 3861273.5 |     99.25744 (19121703)    104.90126 (20122019)    103.16178 (19010903)
   105.41808 (16020722)    103.60092 (16122202)
 3861248.4 |    102.50253 (19121703)    107.71202 (20122019)    106.19231 (19010903)
   108.52794 (16020722)    106.25904 (19123008)
 3861223.2 |    106.04635 (19121703)    111.06826 (20122019)    109.42942 (19010903)
   111.35123 (16020722)    109.03741 (19123008)
 3861198.1 |    109.77749 (19121703)    114.74088 (20122019)    113.03644 (19010903)
   113.98802 (16020722)    111.76797 (19123008)
 3861173.0 |    113.70774 (19121703)    118.60510 (20122019)    116.43987 (19010903)
   116.85819 (16020722)    114.28507 (19123008)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 589
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
                                   INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                   L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                   L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                   L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                    *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***
```

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489758.70	489833.22	489907.74	489982.26	490056.78
3861675.8	70.71087 (16122202)	70.51462 (19123008)	70.04144 (19121118)	67.58144 (19122119)	67.04401 (19010320)
3861650.6	72.75545 (16122202)	71.46797 (19123008)	71.23554 (19121118)	69.23852 (19122119)	68.30794 (19010320)
3861625.5	74.99541 (16122202)	72.64471 (15010118)	72.40826 (18120822)	71.17936 (19122119)	69.70401 (19010320)
3861600.3	77.76661 (16122202)	74.68021 (19121118)	73.75436 (20010322)	73.42796 (19122119)	71.37536 (19010320)
3861575.2	79.04593 (16122202)	76.99556 (19121118)	75.25767 (20010322)	74.95641 (19122119)	72.66790 (16020721)
3861550.1	80.04808 (19123008)	78.85544 (19121118)	76.92962 (20010322)	75.83928 (19122119)	73.68505 (16020721)
3861524.9	81.78195 (19123008)	80.71939 (19121118)	78.19614 (20010322)	77.33805 (19010320)	74.74756 (16020721)
3861499.8	83.48505 (19123008)	82.57924 (19121118)	79.46396 (19122119)	79.86854 (19010320)	76.13500 (16122118)
3861474.6	85.24142 (19123008)	84.33310 (19121118)	82.04382 (19122119)	82.53764 (19010320)	77.79531 (16122118)
3861449.5	87.24378 (19123008)	85.96165 (19121118)	84.38972 (19122119)	83.06221 (19010320)	79.12682 (16122118)
3861424.4	88.70679 (19123008)	87.44471 (19121118)	87.39383 (19122119)	83.94554 (16020721)	83.63322 (16122718)
3861399.2	90.19262 (19123008)	89.29589 (18120822)	88.58905 (19122119)	85.23765 (16020721)	87.83600 (16122718)
3861374.1	91.37921 (19123008)	91.30556 (20010322)	89.38350 (19122119)	86.08411 (16020721)	91.80516 (18010223)
3861348.9	93.85400 (19121118)	93.22727 (20010322)	91.54199 (19010320)	87.89825 (16122118)	95.22837 (18010223)
3861323.8	97.09423 (19121118)	94.34894 (20010322)	94.09689 (19010320)	90.33007 (16122118)	97.82878 (18010223)
3861298.7	100.15001 (19121118)	97.01957 (19122119)	96.31584 (19010320)	94.23231 (16122718)	99.59965 (18010223)
3861273.5	102.98168 (19121118)	100.45076 (19122119)	98.25698 (19010320)	100.00737 (16122718)	102.14497 (19122908)
3861248.4	105.28344 (19121118)	103.66244 (19122119)	99.80898 (16020721)	104.75742 (16122718)	105.60900 (19122908)
3861223.2	107.38857 (19121118)	106.34316 (19122119)	101.30845 (16020721)	108.78863 (16122718)	108.08544 (19122908)
3861198.1	109.55135 (18120822)	108.27484 (19122119)	104.19465 (16122118)	112.22883 (16122718)	109.28920 (19122908)
3861173.0	112.06006 (18120822)	111.47749 (19010320)	107.18476 (16122118)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 , L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 , L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 , L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	490131.30	490205.82	490280.34	490354.86	490429.38
3861675.8	64.19021 (16020721)	65.96991 (18010223)	67.37411 (18010223)	67.15974 (19122908)	63.30299 (18012324)
3861650.6	64.93768 (16122118)	69.08953 (18010223)	69.73607 (19122908)	67.09798 (19122908)	64.91284 (19022504)
3861625.5	66.87792 (16122118)	72.34960 (18010223)	73.23918 (19122908)	67.16388 (19122908)	67.52651 (19022504)
3861600.3	68.87250 (16122118)	75.44183 (18010223)	75.76835 (19122908)	69.44447 (18012324)	70.66794 (19022504)
3861575.2	71.08544 (16122718)	77.24287 (18010223)	76.82548 (19122908)	71.35167 (18012324)	71.01471 (19022504)
3861550.1	75.60081 (16122718)	78.42776 (18010223)	77.77944 (19122908)	73.25863 (19022504)	72.94452 (19010322)
3861524.9	79.16595 (18010223)	80.14547 (19122908)	77.67494 (19122908)	76.36957 (19022504)	73.24974 (19010322)
3861499.8	81.99969 (18010223)	83.32821 (19122908)	77.22777 (19122908)	78.49034 (19022504)	74.51797 (16122308)
3861474.6	84.68498 (18010223)	86.53914 (19122908)	80.46648 (18012324)	78.89625 (19022504)	76.89547 (16122308)

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 3861449.5 |     88.25650 (18010223)     88.24037 (19122908)     81.97818 (19022504)
    79.80486 (19010322)     77.94459 (16122308)
 3861424.4 |     88.52684 (18010223)     88.17576 (19122908)     84.42420 (19022504)
    80.28086 (19011524)     78.28928 (16122308)
 3861399.2 |     90.54181 (19122908)     86.46657 (19122908)     85.78627 (19022504)
    82.28410 (16122308)     77.55224 (16122308)
 3861374.1 |     93.56828 (19122908)     86.99790 (18012324)     86.34252 (19022504)
    84.23658 (16122308)     79.10717 (16122222)
 3861348.9 |     95.49084 (19122908)     89.73370 (19022504)     87.87796 (16010323)
    85.31169 (16122308)     81.54544 (16122222)
 3861323.8 |     96.40937 (19122908)     92.32909 (19022504)     88.85736 (19011524)
    85.61079 (16122308)     83.04986 (16122222)
 3861298.7 |     96.93482 (19122908)     94.50471 (19022504)     91.81623 (16122308)
    85.21575 (16122222)     84.99680 (16011801)
 3861273.5 |     95.14057 (19122908)     95.94904 (19022504)     94.00242 (16122308)
    88.69047 (16122222)     86.24492 (16011801)
 3861248.4 |     98.16894 (18012324)     98.01231 (16010323)     94.86712 (16122308)
    90.90727 (16122222)     85.71720 (16011801)
 3861223.2 |    102.53096 (19022504)     99.77133 (16122308)     95.06795 (16122308)
    93.17342 (16011801)     87.47964 (18121521)
 3861198.1 |    105.96410 (19022504)    103.68934 (16122308)     98.24306 (16122222)
    94.81930 (16011801)     91.02838 (18121521)
 3861173.0 |    107.74702 (16010323)    106.26745 (16122308)    101.09616 (16122222)
    94.80243 (16011801)     93.83470 (16022523)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 591
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
                                 INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                 L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                 L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                 L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                              X-COORD (METERS)
```

```
  (METERS) |       490503.90              490578.42              490652.94
      490727.46              490801.98
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |     62.88637 (19022504)     61.30298 (16122308)     58.77510 (16122308)
    59.44116 (16122222)     57.11416 (16011801)
 3861650.6 |     63.97356 (19010322)     63.15773 (16122308)     59.54326 (20120819)
    60.68321 (16122222)     57.61012 (16011801)
 3861625.5 |     65.12294 (19010322)     64.79444 (16122308)     62.30634 (16122222)
    61.32648 (16011801)     56.93877 (16011801)
 3861600.3 |     67.78010 (19011524)     65.54347 (16122308)     63.93747 (16122222)
    61.91866 (16011801)     58.09397 (18121521)
 3861575.2 |     69.40270 (16122308)     65.23393 (20120819)     64.88197 (16122222)
    61.95802 (16011801)     59.95759 (18121521)
 3861550.1 |     70.65666 (16122308)     66.39829 (16122222)     65.73069 (16011801)
    61.18744 (16011801)     61.13761 (18121521)
 3861524.9 |     71.27987 (16122308)     68.58506 (16122222)     66.74238 (16011801)
    62.52754 (18121521)     62.73754 (16022523)
 3861499.8 |     71.08040 (16122308)     69.93672 (16122222)     66.92566 (16011801)
    64.55339 (18121521)     64.05459 (16022523)
 3861474.6 |     70.88312 (20120819)     70.72143 (16011801)     66.10867 (16011801)
    65.65933 (18121521)     64.41489 (16022523)
 3861449.5 |     73.86371 (16122222)     72.12020 (16011801)     67.34721 (18121521)
    67.67910 (16022523)     63.97501 (19122621)
 3861424.4 |     75.50249 (16122222)     72.42119 (16011801)     69.48056 (18121521)
    68.53652 (16022523)     63.89135 (19122621)
 3861399.2 |     76.25050 (16011801)     71.56305 (16011801)     70.82040 (16022523)
    68.67712 (16022523)     66.05163 (19120601)
 3861374.1 |     77.89605 (16011801)     72.88681 (18121521)     72.88187 (16022523)
    68.76319 (19122621)     67.45911 (19120601)
 3861348.9 |     78.43670 (16011801)     75.21357 (18121521)     73.80909 (16022523)
    69.54871 (19120601)     67.84905 (19120601)
 3861323.8 |     77.79404 (16011801)     76.97786 (16022523)     73.50539 (16022523)
    71.64565 (19120601)     66.96552 (19120601)
 3861298.7 |     79.38818 (18121521)     79.56604 (16022523)     73.64339 (19122621)
    73.20756 (19120601)     68.65254 (16021120)
 3861273.5 |     82.11705 (18121521)     80.14111 (16022523)     76.16205 (19120601)
    72.75442 (19120601)     71.10820 (16021120)
 3861248.4 |     84.57315 (16022523)     80.64419 (19122621)     78.05595 (19120601)
    72.33852 (16021120)     72.45240 (16021120)
 3861223.2 |     87.14656 (16022523)     82.20983 (19120601)     78.59006 (19120601)
    75.49587 (16021120)     72.49997 (16021120)
 3861198.1 |     88.20268 (16022523)     85.04454 (19120601)     77.67204 (19120601)
    77.27402 (16021120)     74.40745 (18011823)
 3861173.0 |     88.24956 (19122621)     86.15492 (19120601)     80.74593 (16021120)
    77.50889 (16021120)     75.39594 (18011823)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
  L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
  L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
  L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 490876.50
3861675.8	53.77427 (19010404)
3861650.6	56.02043 (18121521)
3861625.5	57.05139 (18121521)
3861600.3	58.28112 (16022523)
3861575.2	59.40580 (16022523)
3861550.1	59.75569 (16022523)
3861524.9	59.50713 (19122621)
3861499.8	59.80153 (19122621)
3861474.6	60.98993 (19120601)
3861449.5	62.74723 (19120601)
3861424.4	63.24386 (19120601)
3861399.2	63.11260 (19120601)
3861374.1	61.91780 (19120601)
3861348.9	64.45608 (16021120)
3861323.8	66.43141 (16021120)
3861298.7	67.28909 (16021120)
3861273.5	66.94247 (16021120)
3861248.4	69.30586 (18011823)
3861223.2	70.40121 (18011823)
3861198.1	70.67885 (19022404)
3861173.0	70.86333 (19022404)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING6 ***
                                INCLUDING SOURCE(S):   L0000288   , L0000289
, L0000290   , L0000291   , L0000292   ,
                  L0000293   , L0000294   , L0000295   , L0000296   , L0000297
, L0000298   , L0000299   , L0000300   ,
                  L0000301   , L0000302   , L0000303   , L0000304   , L0000305
, L0000306   , L0000307   , L0000308   ,
                  L0000309   , L0000310   , L0000311   , L0000312   , L0000313
, L0000314   , L0000315   , L0000316   ,

                                 *** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 491611.20   491641.99   491672.78
      491703.57   491734.36
 -
- -

 3861693.5 | 41.23683 (19022404)   40.62839 (19022404)   39.75562 (19022404)
    38.50836 (18011901)   38.65500 (18011901)
 3861664.1 | 41.22175 (19022404)   40.08841 (19022404)   39.60863 (18011901)
    40.68750 (18020819)   42.47929 (18020819)
 3861634.6 | 40.60955 (18011901)   40.91862 (18020819)   42.88238 (18020819)
    44.60730 (18020819)   45.94549 (18020819)
 3861605.2 | 43.21021 (18020819)   45.19916 (18020819)   46.70778 (18020819)
    47.87774 (18020819)   48.74133 (18020819)
 3861575.7 | 47.41692 (18020819)   48.84992 (18020819)   49.77746 (18020819)
    50.37408 (18020819)   50.45681 (18020819)
 3861546.3 | 50.87937 (18020819)   51.72280 (18020819)   51.92378 (18020819)
    51.78273 (18020819)   51.27004 (18020819)
 3861516.8 | 53.45265 (18020819)   53.52015 (18020819)   53.08283 (18020819)
    52.17133 (18020819)   50.92128 (18020819)
 3861487.4 | 54.84433 (18020819)   54.14008 (18020819)   53.00675 (18020819)
    51.39264 (18020819)   49.45223 (18020819)
 3861457.9 | 54.97578 (18020819)   53.45828 (18020819)   51.57290 (18020819)
    49.63396 (20012519)   49.05094 (15011619)
 3861428.5 | 53.90696 (18020819)   51.58937 (18020819)   50.54712 (15011619)
    51.11893 (15011619)   51.33736 (15011619)
 3861399.0 | 52.26147 (20012519)   52.72763 (15011619)   53.06694 (15011619)

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    52.93833 (15011619)     52.55455 (15011619)
 3861369.6 |     54.83433 (15011619)     54.75654 (15011619)     54.40078 (15011619)
    53.58747 (15011619)     52.49839 (15011619)
 3861340.1 |     56.29827 (15011619)     55.53771 (15011619)     54.42369 (15011619)
    53.90800 (18011122)     53.25686 (18011122)
 3861310.7 |     56.46580 (15011619)     55.79281 (18011122)     55.11956 (18011122)
    54.11735 (18011122)     52.81863 (18011122)
 3861281.2 |     57.25764 (18011122)     56.14991 (18011122)     54.72581 (18011122)
    54.05915 (18020124)     53.17635 (18020124)
 3861251.8 |     56.91395 (18011122)     56.08256 (18020124)     55.07206 (18020124)
    53.83552 (18020124)     53.19698 (19020204)
 3861222.3 |     57.24994 (18020124)     55.79840 (18020124)     55.19606 (19020204)
    54.35470 (19020204)     53.19643 (19020204)
 3861192.9 |     57.37279 (19020204)     56.42044 (19020204)     55.18418 (19020204)
    53.59492 (19020204)     52.32611 (19022507)
 3861163.4 |     57.11805 (19020204)     55.42327 (19020204)     54.51575 (19022507)
    54.23669 (15123001)     53.78478 (15123001)
 3861134.0 |     56.33060 (15123001)     56.51696 (15123001)     56.19415 (15123001)
    55.49910 (18011721)     55.35424 (18011721)
 3861104.5 |     58.04613 (15123001)     57.87582 (18011721)     57.81532 (18011721)
    57.40575 (18011721)     56.66904 (18011721)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 594
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
                                   INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                    *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       491765.15               491795.94              491826.73
      491857.52               491888.31
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 3861693.5 | 40.34358 (18020819)   41.97343 (18020819)   43.33740 (18020819)
    44.37891 (18020819)   44.92698 (18020819)
 3861664.1 | 43.95776 (18020819)   45.09948 (18020819)   45.84888 (18020819)
    46.20001 (18020819)   46.32029 (18020819)
 3861634.6 | 46.78966 (18020819)   47.55483 (18020819)   47.68724 (18020819)
    47.41068 (18020819)   46.87003 (18020819)
 3861605.2 | 49.02670 (18020819)   49.05151 (18020819)   48.60847 (18020819)
    47.81084 (18020819)   46.73053 (18020819)
 3861575.7 | 50.17778 (18020819)   49.55722 (18020819)   48.49004 (18020819)
    47.10466 (18020819)   45.56366 (18020819)
 3861546.3 | 50.31952 (18020819)   49.10514 (18020819)   47.44402 (18020819)
    45.73744 (20012519)   44.58458 (20012519)
 3861516.8 | 49.28173 (18020819)   47.39359 (18020819)   46.13793 (20012519)
    46.32277 (15011619)   46.78601 (15011619)
 3861487.4 | 47.80261 (20012519)   47.61649 (15011619)   48.02486 (15011619)
    48.12528 (15011619)   48.01222 (15011619)
 3861457.9 | 49.49143 (15011619)   49.64718 (15011619)   49.52768 (15011619)
    49.05930 (15011619)   48.30709 (15011619)
 3861428.5 | 51.21218 (15011619)   50.75957 (15011619)   50.00111 (15011619)
    48.99334 (18011122)   48.63176 (18011122)
 3861399.0 | 51.79177 (15011619)   50.68082 (15011619)   50.30709 (18011122)
    49.70036 (18011122)   48.82847 (18011122)
 3861369.6 | 52.12743 (18011122)   51.45090 (18011122)   50.53732 (18011122)
    49.36629 (18011122)   48.83896 (18020124)
 3861340.1 | 52.29985 (18011122)   51.06668 (18011122)   50.54377 (18020124)
    49.69551 (18020124)   48.80073 (18020124)
 3861310.7 | 52.20286 (18020124)   51.38691 (18020124)   50.32688 (18020124)
    49.61803 (19020204)   49.12807 (19020204)
 3861281.2 | 51.98363 (18020124)   51.35796 (19020204)   50.70081 (19020204)
    49.80839 (19020204)   48.61539 (19020204)
 3861251.8 | 52.45342 (19020204)   51.41159 (19020204)   50.14926 (19020204)
    48.79076 (19022507)   48.00212 (19022507)
 3861222.3 | 51.70754 (19020204)   50.44517 (19022507)   49.83439 (15123001)
    49.80408 (15123001)   49.41772 (15123001)
 3861192.9 | 51.82760 (15123001)   51.60180 (15123001)   51.23995 (15123001)
    50.87491 (18011721)   50.90623 (18011721)
 3861163.4 | 53.09034 (15123001)   53.01097 (18011721)   52.88308 (18011721)
    52.60940 (18011721)   52.05691 (18011721)
 3861134.0 | 54.99126 (18011721)   54.68206 (18011721)   53.72275 (18011721)
    52.80018 (18011721)   51.62221 (18011522)
 3861104.5 | 55.63166 (18011721)   54.32351 (18011721)   53.53766 (18011522)
    52.95958 (18011522)   52.14973 (18011522)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	491919.10	491949.89	491980.68	492011.47	492042.26
3861693.5	44.82251 (18020819)	44.81915 (18020819)	44.45887 (18020819)	43.79917 (18020819)	42.86380 (18020819)
3861664.1	45.97615 (18020819)	45.38903 (18020819)	44.61696 (18020819)	43.49093 (18020819)	42.08560 (18020819)
3861634.6	46.08514 (18020819)	45.03971 (18020819)	43.68656 (18020819)	42.17221 (20012519)	41.26620 (20012519)
3861605.2	45.35872 (18020819)	43.77230 (18020819)	42.60828 (20012519)	42.16631 (15011619)	42.65739 (15011619)
3861575.7	44.08066 (20012519)	43.28555 (15011619)	43.84374 (15011619)	44.03040 (15011619)	44.15102 (15011619)
3861546.3	45.11775 (15011619)	45.39661 (15011619)	45.40481 (15011619)	45.30722 (15011619)	44.76677 (15011619)
3861516.8	46.83693 (15011619)	46.56809 (15011619)	46.03585 (15011619)	45.49299 (15011619)	44.80913 (18011122)
3861487.4	47.57194 (15011619)	46.86568 (15011619)	46.05550 (18011122)	45.78022 (18011122)	45.38560 (18011122)
3861457.9	47.48673 (18011122)	47.16976 (18011122)	46.68339 (18011122)	45.88237 (18011122)	45.06366 (18011122)
3861428.5	48.08856 (18011122)	47.29605 (18011122)	46.27661 (18011122)	45.78263 (18020124)	45.37729 (18020124)
3861399.0	47.75852 (18011122)	47.26964 (18020124)	46.61929 (18020124)	45.72766 (18020124)	45.12276 (19020204)
3861369.6	48.05142 (18020124)	47.22319 (18020124)	46.44882 (19020204)	46.00023 (19020204)	45.43538 (19020204)
3861340.1	47.92656 (19020204)	47.50247 (19020204)	46.74087 (19020204)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)			
	492073.05	492103.84	492134.63	492165.42	492196.21
3861693.5	41.54020 (18020819)	40.11181 (18020819)	39.06956 (20012519)	38.13359 (15011619)	38.56790 (15011619)

```
 3861664.1 |     40.36196 (20012519)     39.37516 (20012519)     39.61863 (15011619)
    39.92676 (15011619)     40.02128 (15011619)
 3861634.6 |     41.05235 (15011619)     41.10462 (15011619)     41.13577 (15011619)
    40.91418 (15011619)     40.81477 (15011619)
 3861605.2 |     42.76087 (15011619)     42.66317 (15011619)     42.19788 (15011619)
    41.45648 (15011619)     40.82689 (15011619)
 3861575.7 |     44.02497 (15011619)     43.22512 (15011619)     42.57848 (15011619)
    41.74694 (18011122)     41.31183 (18011122)
 3861546.3 |     43.88589 (15011619)     43.25291 (18011122)     42.98229 (18011122)
    42.39860 (18011122)     41.66133 (18011122)
 3861516.8 |     44.26979 (18011122)     43.77690 (18011122)     43.00674 (18011122)
    42.15831 (18011122)     41.68788 (18020124)
 3861487.4 |     44.38731 (18011122)     43.38744 (18011122)     42.95850 (18020124)
    42.47274 (18020124)     41.74789 (18020124)
 3861457.9 |     44.33340 (18020124)     43.77214 (18020124)     42.99667 (18020124)
    42.17431 (19020204)     41.87853 (19020204)
 3861428.5 |     44.38560 (18020124)     43.55253 (19020204)     43.17337 (19020204)
    42.65720 (19020204)     41.90813 (19020204)
 3861399.0 |     44.61032 (19020204)     43.95506 (19020204)     43.13306 (19020204)
    42.16143 (19020204)     41.09786 (19022507)
 3861369.6 |     44.37397 (19020204)     43.27846 (19020204)     42.38085 (19022507)
    41.79552 (19022507)     41.64228 (15123001)
 3861340.1 |     43.71890 (19022507)     43.04676 (19022507)     43.04881 (15123001)
    42.85529 (15123001)     42.50948 (15123001)
 3861310.7 |     44.59229 (15123001)     44.35483 (15123001)     43.84122 (15123001)
    43.65859 (18011721)     43.57025 (18011721)
 3861281.2 |     45.19925 (18011721)     45.28716 (18011721)     45.15187 (18011721)
    44.80321 (18011721)     44.32951 (18011721)
 3861251.8 |     46.75025 (18011721)     46.29548 (18011721)     45.71062 (18011721)
    44.96806 (18011721)     44.04440 (18011721)
 3861222.3 |     47.20394 (18011721)     46.33116 (18011721)     45.52311 (18011522)
    45.10964 (18011522)     44.52275 (18011522)
 3861192.9 |     47.21409 (18011522)     46.72085 (18011522)     46.04621 (18011522)
    45.20484 (18011522)     44.21254 (18011522)
 3861163.4 |     47.42725 (18011522)     46.56724 (18011522)     45.46908 (18011522)
    44.39789 (16123005)     43.71938 (16123005)
 3861134.0 |     46.51122 (18011522)     45.85667 (16123005)     45.05771 (16123005)
    44.16748 (16123005)     43.25065 (18120921)
 3861104.5 |     46.27823 (16123005)     45.28870 (18120921)     44.29941 (20120318)
    44.32461 (20120318)     44.31175 (20120318)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 597
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
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INCLUDING SOURCE(S): L0000288 , L0000289
, L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297
, L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305
, L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313
, L0000314 , L0000315 , L0000316 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 492227.00
3861693.5	38.86053 (15011619)
3861664.1	39.94027 (15011619)
3861634.6	40.28135 (15011619)
3861605.2	40.35587 (18011122)
3861575.7	40.82239 (18011122)
3861546.3	40.68485 (18011122)
3861516.8	41.20142 (18020124)
3861487.4	40.89835 (19020204)
3861457.9	41.41764 (19020204)
3861428.5	40.98146 (19020204)
3861399.0	40.62552 (19022507)
3861369.6	41.55695 (15123001)
3861340.1	42.16533 (18011721)
3861310.7	43.42742 (18011721)
3861281.2	43.74053 (18011721)
3861251.8	43.57287 (18011522)
3861222.3	43.77554 (18011522)
3861192.9	43.12227 (18011522)
3861163.4	42.95014 (16123005)
3861134.0	42.40010 (20120318)
3861104.5	44.11584 (20120318)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: LOADING6 ***
                                INCLUDING SOURCE(S):   L0000288   , L0000289
, L0000290   , L0000291   , L0000292   ,
                 L0000293   , L0000294   , L0000295   , L0000296   , L0000297
, L0000298   , L0000299   , L0000300   ,
                 L0000301   , L0000302   , L0000303   , L0000304   , L0000305
, L0000306   , L0000307   , L0000308   ,
                 L0000309   , L0000310   , L0000311   , L0000312   , L0000313
, L0000314   , L0000315   , L0000316   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        488802.97   3861310.09   96.79415 (18020417)   488863.58
3861309.29   96.36520 (19012517)
        488847.63   3861279.78   100.89495 (19012517)   488850.82
3861262.24   102.48330 (19012517)
        488810.14   3861261.44   104.70019 (18020417)   488810.94
3861289.36   99.13919 (18020417)
        488819.72   3861306.90   97.68713 (19012517)   488816.53
3861235.92   108.07909 (18020417)
        488841.25   3861126.66   123.59433 (18020417)   488879.53
3861121.88   125.53218 (18020417)
        488913.82   3861121.08   121.18291 (19012517)   488925.79
3861092.37   127.00376 (18020417)
        488920.03   3861067.49   138.44874 (18020417)   488996.74
3861113.92   119.37249 (15010419)
        488974.03   3861097.77   125.68737 (19012517)   488931.63
3860976.64   148.59637 (18020417)
        488935.67   3861034.68   145.65155 (18020417)   488959.90
3861061.43   138.52367 (19012517)
        489165.81   3861208.80   110.72682 (19122903)   489317.74
3861109.28   122.99617 (15010903)
        489385.87   3861014.75   134.14103 (19121703)   489372.24
3861112.69   122.63005 (19121703)
        489420.79   3861106.73   129.18193 (15010420)   489436.12
3861037.74   137.80703 (15010420)
        489488.07   3861036.89   135.60765 (19121219)   489473.59
3861110.99   125.90464 (20021406)
        489431.01   3861167.20   122.83754 (15010420)   489662.66
3860915.95   154.90089 (18120822)
        489644.78   3861076.07   128.61328 (19123008)   489659.26
3861099.06   124.67804 (19123008)

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        489735.91   3861020.71      134.50831  (19122119)              489700.14
3861029.23      133.90384  (18120822)
        489708.65   3861062.44      128.67242  (18120822)              489779.34
3861099.06      122.11643  (19122119)
        489835.95   3859138.59      160.03932  (16122521)              489885.95
3859138.59      168.04355  (15121808)
        489935.95   3859138.59      175.67041  (15121808)              489985.95
3859138.59      167.48311  (15121808)
        490035.95   3859138.59      146.75347  (19010405)              490085.95
3859138.59      153.87568  (20121324)
        490135.95   3859138.59      154.96434  (15020404)              490185.95
3859138.59      156.21062  (15020404)
        490235.95   3859138.59      155.38638  (15013024)              490285.95
3859138.59      147.51141  (16010120)
        490335.95   3859138.59      144.45200  (16010120)              490385.95
3859138.59      131.50083  (19111222)
        490435.95   3859138.59      119.41151  (19111222)              490485.95
3859138.59      112.26947  (20022004)
        490535.95   3859138.59       97.51236  (20120808)              490585.95
3859138.59       81.66289  (20120808)
        490635.95   3859138.59       71.16695  (19120107)              490685.95
3859138.59       60.13313  (19120424)
        490735.95   3859138.59       63.46816  (19021208)              490785.95
3859138.59       57.86670  (19021208)
        490835.95   3859138.59       48.04177  (15092422)              490885.95
3859138.59       43.25946  (15092422)
        489835.95   3859188.59      164.53204  (20011520)              489885.95
3859188.59      182.19841  (15121808)
        489935.95   3859188.59      173.09291  (15121808)              489985.95
3859188.59      158.00858  (19010405)
        490035.95   3859188.59      158.94750  (20121324)              490085.95
3859188.59      157.77632  (15020404)
        490135.95   3859188.59      166.11246  (15020404)              490185.95
3859188.59      163.76984  (15013024)
        490235.95   3859188.59      153.93513  (16010120)              490285.95
3859188.59      156.40130  (16010120)
        490335.95   3859188.59      146.36686  (19111222)              490385.95
3859188.59      133.69557  (19111222)
        490435.95   3859188.59      129.45723  (20022004)              490485.95
3859188.59      113.57056  (20120808)
        490535.95   3859188.59       95.23717  (19120107)              490585.95
3859188.59       87.74257  (19120107)
        490635.95   3859188.59       71.62485  (19122324)              490685.95
3859188.59       66.38000  (19021208)
        490735.95   3859188.59       56.55832  (19021208)              490785.95
3859188.59       49.04676  (15092422)
        490835.95   3859188.59       47.53217  (18112120)              490885.95
3859188.59       44.15580  (19120220)
        489835.95   3859238.59      180.88325  (15121808)              489885.95
3859238.59      187.20083  (15121808)
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
489935.95	3859238.59	167.02281	(15121808)	489985.95	3859238.59	164.01661	(20121324)
490035.95	3859238.59	165.64360	(20121324)	490085.95	3859238.59	172.21593	(15020404)
490135.95	3859238.59	164.88185	(15013024)	490185.95	3859238.59	161.59032	(15013024)
490235.95	3859238.59	166.47088	(16010120)	490285.95	3859238.59	156.50262	(15020520)
490335.95	3859238.59	145.48127	(19111222)	490385.95	3859238.59	147.90190	(20022004)
490435.95	3859238.59	141.45062	(20120808)	490485.95	3859238.59	123.04282	(19120107)
490535.95	3859238.59	108.05135	(19120107)	490585.95	3859238.59	91.56821	(19122324)
490635.95	3859238.59	80.09906	(19021208)	490685.95	3859238.59	73.25272	(16092619)
490735.95	3859238.59	60.85553	(20112919)	490785.95	3859238.59	61.33671	(18011120)
490835.95	3859238.59	57.08148	(18011120)	490885.95	3859238.59	52.94251	(15020708)
489835.95	3859288.59	196.35149	(15121808)	489885.95			

3859288.59 188.11169 (15121808)
489935.95 3859288.59 168.17477 (19010405) 489985.95
3859288.59 177.47329 (20121324)
490035.95 3859288.59 181.59654 (15020404) 490085.95
3859288.59 173.43106 (15013024)
490135.95 3859288.59 164.06054 (15013024) 490185.95
3859288.59 171.65035 (16010120)
490235.95 3859288.59 169.20110 (15020520) 490285.95
3859288.59 159.50675 (15020520)
490335.95 3859288.59 164.49106 (20022004) 490385.95
3859288.59 159.20039 (20120808)
490435.95 3859288.59 137.40344 (19120107) 490485.95
3859288.59 129.13425 (19120107)
490535.95 3859288.59 126.07864 (19122324) 490585.95
3859288.59 106.07299 (18031023)
490635.95 3859288.59 97.02233 (20112919) 490685.95
3859288.59 96.90650 (18011120)
490735.95 3859288.59 86.74017 (18011120) 490785.95
3859288.59 77.30387 (18011120)
490835.95 3859288.59 67.19758 (16120720) 490885.95
3859288.59 60.81501 (16122021)
489835.95 3859338.59 199.81025 (15121808) 489885.95
3859338.59 177.24883 (15121808)
489935.95 3859338.59 172.88067 (20121324) 489985.95
3859338.59 185.18032 (15020404)
490035.95 3859338.59 183.88911 (15020404) 490085.95
3859338.59 170.84729 (15013024)
490135.95 3859338.59 171.84927 (16010120) 490185.95
3859338.59 175.52886 (15020520)
490235.95 3859338.59 171.47527 (15020520) 490285.95
3859338.59 180.68363 (20120808)
490335.95 3859338.59 179.95011 (20120808) 490385.95
3859338.59 164.50016 (19120107)
490435.95 3859338.59 150.97474 (19011623) 490485.95
3859338.59 141.90172 (19122324)
490535.95 3859338.59 127.36612 (18031023) 490585.95
3859338.59 121.14865 (18011120)
490635.95 3859338.59 127.72993 (18011120) 490685.95
3859338.59 118.22663 (18011120)
490735.95 3859338.59 98.21548 (18011120) 490785.95
3859338.59 89.93155 (16120720)
490835.95 3859338.59 89.59646 (16122021) 490885.95
3859338.59 80.48730 (18050322)
489835.95 3859388.59 204.48323 (15121808) 489885.95
3859388.59 179.14153 (19010405)
489935.95 3859388.59 182.91786 (15020404) 489985.95
3859388.59 194.34559 (15020404)
490035.95 3859388.59 179.38110 (15013024) 490085.95
3859388.59 171.92106 (16010120)
490135.95 3859388.59 179.15227 (15020520) 490185.95

3859388.59   173.67645 (20022004)
        490235.95   3859388.59   189.77614 (20120808)   490285.95
3859388.59   193.47887 (20120808)
        490335.95   3859388.59   180.50032 (19120107)   490385.95
3859388.59   170.05997 (19122324)
        490435.95   3859388.59   161.20588 (19122324)   490485.95
3859388.59   143.08672 (16092619)
        490535.95   3859388.59   149.03775 (18011120)   490585.95
3859388.59   150.75340 (18011120)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
                                   INCLUDING SOURCE(S):   L0000288   , L0000289 , L0000290   , L0000291   , L0000292   ,
                L0000293   , L0000294   , L0000295   , L0000296   , L0000297 , L0000298   , L0000299   , L0000300   ,
                L0000301   , L0000302   , L0000303   , L0000304   , L0000305 , L0000306   , L0000307   , L0000308   ,
                L0000309   , L0000310   , L0000311   , L0000312   , L0000313 , L0000314   , L0000315   , L0000316   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        490635.95   3859388.59   140.90719 (18011120)   490685.95
3859388.59   125.11058 (16120720)
        490735.95   3859388.59   107.03449 (16122021)   490785.95
3859388.59   101.55281 (16122021)
        490835.95   3859388.59   114.53198 (19120108)   490885.95
3859388.59   106.89688 (19120108)
        489835.95   3859438.59   194.86458 (15121808)   489885.95
3859438.59   179.85359 (15020404)
        489935.95   3859438.59   200.99259 (15020404)   489985.95
3859438.59   188.14470 (15020404)
        490035.95   3859438.59   177.78138 (16010120)   490085.95
3859438.59   185.28213 (15020520)

490135.95 3859438.59 178.66741 (15020520) 490185.95 3859438.59 193.09982 (20120808)
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490435.95 3859438.59 155.76830 (20112919) 490485.95 3859438.59 166.87617 (18011120)
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490635.95 3859438.59 152.22343 (16120720) 490685.95 3859438.59 149.88933 (19120108)
490735.95 3859438.59 151.99999 (19120108) 490785.95 3859438.59 140.13935 (19120108)
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490185.95 3859488.59 194.54289 (20120808) 490235.95 3859488.59 179.83526 (19120107)
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490585.95 3859488.59 179.88383 (19120108) 490635.95 3859488.59 189.32903 (19120108)
490685.95 3859488.59 184.72322 (19120108) 490735.95 3859488.59 164.88569 (19120108)
490785.95 3859488.59 145.64830 (19120708) 490835.95 3859488.59 131.98293 (15121006)
490885.95 3859488.59 121.81273 (15121006) 490085.95 3859538.59 207.57880 (20120808)
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490235.95 3859538.59 181.82031 (19122324) 490285.95 3859538.59 162.26662 (19122324)
490335.95 3859538.59 170.02986 (20122020) 490385.95 3859538.59 175.12718 (15121821)
490435.95 3859538.59 175.46757 (20122119) 490485.95 3859538.59 188.51881 (19120108)
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490635.95 3859538.59 196.25124 (19120108) 490685.95 3859538.59 179.92086 (19120708)
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490835.95 3859538.59 150.07013 (16010208) 490885.95 3859538.59 138.90297 (16010208)

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        490135.95   3859588.59      200.34044  (19120107)               490185.95
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3859588.59      177.67482  (19120108)
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3859588.59      202.12065  (19120108)
        490535.95   3859588.59      198.85728  (19120708)               490585.95
3859588.59      193.77897  (19120708)
        490635.95   3859588.59      179.60348  (15121006)               490685.95
3859588.59      174.85258  (16010208)
        490735.95   3859588.59      176.37073  (16010208)               490785.95
3859588.59      167.59175  (16010208)
        490835.95   3859588.59      151.44199  (20120905)               490885.95
3859588.59      137.76779  (20120905)
        490135.95   3859638.59      210.67844  (19122324)               490185.95
3859638.59      193.65305  (20122020)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 601
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
                                   INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                 L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                 L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                 L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        490235.95   3859638.59      191.60889  (19121704)               490285.95
3859638.59      186.75448  (15121821)
        490335.95   3859638.59      190.35011  (19120108)               490385.95
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3859638.59 200.24435 (19120108)
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3859738.59 243.61514 (19120108)
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3859738.59 174.21338 (18011822)
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3859738.59 169.37224 (15010721)
490785.95 3859738.59 173.19586 (15010721) 490835.95
3859738.59 166.47598 (15010721)
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3859788.59 273.18028 (19120108)
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3859788.59 274.52725 (19120708)
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3859788.59 228.38684 (16010208)
490335.95 3859788.59 222.49179 (16010208) 490385.95

3859788.59   205.94201 (16010208)
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3859788.59   182.24433 (18121507)
        490535.95   3859788.59   176.13666 (18011822)   490585.95
3859788.59   165.20390 (15010721)
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3859788.59   169.13442 (15010721)
        490735.95   3859788.59   156.24356 (15010721)   490785.95
3859788.59   154.15601 (20122520)
        490835.95   3859788.59   150.44212 (20122520)   490885.95
3859788.59   160.08234 (15120221)
        490085.95   3859838.59   321.65287 (19120708)   490135.95
3859838.59   298.43591 (19120708)
        490185.95   3859838.59   267.89983 (16010208)   490235.95
3859838.59   258.92304 (16010208)
        490285.95   3859838.59   235.82884 (18120308)   490335.95
3859838.59   216.07961 (18121507)
        490385.95   3859838.59   207.18081 (18011822)   490435.95
3859838.59   195.73405 (18011822)
        490485.95   3859838.59   189.10648 (15010721)   490535.95
3859838.59   181.19393 (15010721)
        490585.95   3859838.59   168.75631 (15010721)   490635.95
3859838.59   162.09462 (20122520)
        490685.95   3859838.59   153.98722 (20122520)   490735.95
3859838.59   153.68896 (15021320)
        490785.95   3859838.59   156.62136 (15021320)   490835.95
3859838.59   152.25369 (15021320)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
                                    INCLUDING SOURCE(S):   L0000288   , L0000289 , L0000290   , L0000291   , L0000292   ,
                 L0000293   , L0000294   , L0000295   , L0000296   , L0000297 , L0000298   , L0000299   , L0000300   ,
                 L0000301   , L0000302   , L0000303   , L0000304   , L0000305 , L0000306   , L0000307   , L0000308   ,
                 L0000309   , L0000310   , L0000311   , L0000312   , L0000313 , L0000314   , L0000315   , L0000316   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                            ** CONC OF PM_10   IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490885.95	3859838.59	146.85169	(20010317)	490085.95	3859888.59	318.58005	(16010208)
490135.95	3859888.59	303.82627	(16010208)	490185.95	3859888.59	274.18106	(18120308)
490235.95	3859888.59	253.43602	(18011822)	490285.95	3859888.59	239.85757	(18011822)
490335.95	3859888.59	226.33589	(15010721)	490385.95	3859888.59	214.63586	(15010721)
490435.95	3859888.59	197.46421	(15010721)	490485.95	3859888.59	189.02758	(20122520)
490535.95	3859888.59	178.46457	(20122520)	490585.95	3859888.59	173.70700	(15021320)
490635.95	3859888.59	167.24704	(15021320)	490685.95	3859888.59	158.19053	(15021320)
490735.95	3859888.59	150.23756	(20012419)	490785.95	3859888.59	145.75369	(20012419)
490835.95	3859888.59	143.63921	(20012419)	490885.95	3859888.59	146.06340	(20012419)
490135.95	3859938.59	304.19189	(18011822)	490185.95	3859938.59	282.41341	(15010721)
490235.95	3859938.59	267.02068	(15010721)	490285.95	3859938.59	242.61353	(15010721)
490335.95	3859938.59	228.73148	(20122520)	490385.95	3859938.59	213.67243	(15021320)
490435.95	3859938.59	205.08047	(15021320)	490485.95	3859938.59	192.84604	(15021320)
490535.95	3859938.59	183.91521	(20012419)	490585.95	3859938.59	178.68621	(20012419)
490635.95	3859938.59	170.22784	(20012419)	490685.95	3859938.59	161.68791	(18011319)
490735.95	3859938.59	154.43759	(18011319)	490785.95	3859938.59	146.27064	(19013107)
490835.95	3859938.59	140.29977	(19013107)	490885.95	3859938.59	133.19540	(19013107)
490135.95	3859988.59	309.76574	(20122520)	490185.95	3859988.59	288.71421	(20122520)
490235.95	3859988.59	273.35813	(15021320)	490285.95	3859988.59	255.34836	(15021320)
490335.95	3859988.59	237.93976	(20012419)	490385.95	3859988.59	224.62431	(20012419)
490435.95	3859988.59	209.52723	(20012419)	490485.95	3859988.59	196.82059	(18011319)
490535.95	3859988.59	185.85177	(19013107)	490585.95	3859988.59	178.02602	(19013107)

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        490635.95   3859988.59      169.47598  (15012208)                490685.95
3859988.59      163.80688  (15012208)
        490735.95   3859988.59      155.85367  (15012208)                490785.95
3859988.59      147.25718  (15012208)
        490835.95   3859988.59      140.79205  (16020401)                490885.95
3859988.59      133.68478  (16020401)
        490135.95   3860038.59      328.12543  (20012419)                490185.95
3860038.59      306.55927  (20012419)
        490235.95   3860038.59      281.38122  (18011319)                490285.95
3860038.59      259.90043  (19013107)
        490335.95   3860038.59      243.85321  (19013107)                490385.95
3860038.59      226.21463  (15012208)
        490435.95   3860038.59      211.64954  (15012208)                490485.95
3860038.59      197.36651  (16020401)
        490535.95   3860038.59      187.26765  (16020401)                490585.95
3860038.59      177.61274  (20122021)
        490635.95   3860038.59      168.95582  (20122021)                490685.95
3860038.59      161.95259  (20122021)
        490735.95   3860038.59      155.91548  (20122021)                490785.95
3860038.59      147.51260  (20122021)
        490835.95   3860038.59      139.15996  (20122021)                490885.95
3860038.59      130.67264  (20120821)
        490135.95   3860088.59      338.96975  (18120920)                490185.95
3860088.59      311.13151  (16020401)
        490235.95   3860088.59      286.73818  (16020401)                490285.95
3860088.59      267.06521  (20122021)
        490335.95   3860088.59      247.35765  (20122021)                490385.95
3860088.59      228.53306  (20122021)
        490435.95   3860088.59      210.71145  (20122021)                490485.95
3860088.59      194.60956  (20120821)
        490535.95   3860088.59      185.13836  (20120821)                490585.95
3860088.59      176.01001  (20120821)
        490635.95   3860088.59      166.44802  (20120821)                490685.95
3860088.59      158.28553  (20120821)
        490735.95   3860088.59      150.94136  (20120821)                490785.95
3860088.59      143.89596  (20120821)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 603
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
                                   INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                 L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
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                 L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                 L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        490835.95   3860088.59      137.34699  (15021823)               490885.95
3860088.59      131.72493  (15021823)
        490135.95   3860138.59      339.50609  (20120821)               490185.95
3860138.59      311.81674  (20120821)
        490235.95   3860138.59      284.00874  (20120821)               490285.95
3860138.59      264.26361  (15021823)
        490335.95   3860138.59      247.08408  (15021823)               490385.95
3860138.59      230.53478  (15021823)
        490435.95   3860138.59      214.71029  (15021823)               490485.95
3860138.59      201.08816  (15021823)
        490535.95   3860138.59      189.56349  (15021823)               490585.95
3860138.59      178.50678  (15021823)
        490635.95   3860138.59      168.27057  (15021823)               490685.95
3860138.59      158.74515  (15021823)
        490735.95   3860138.59      150.53272  (15021823)               490785.95
3860138.59      143.86045  (15021823)
        490835.95   3860138.59      137.58554  (15012508)               490885.95
3860138.59      130.99154  (15012508)
        490935.95   3860138.59      124.91778  (15012508)               490985.95
3860138.59      120.07670  (15012508)
        491035.95   3860138.59      115.71612  (15012508)               490135.95
3860188.59      352.40602  (15012508)
        490185.95   3860188.59      323.87024  (15012508)               490235.95
3860188.59      296.87783  (15012508)
        490285.95   3860188.59      273.12134  (15012508)               490335.95
3860188.59      252.15414  (15012508)
        490385.95   3860188.59      233.59747  (15012508)               490435.95
3860188.59      217.18843  (15012508)
        490485.95   3860188.59      202.26207  (15012508)               490535.95
3860188.59      189.64222  (15012508)
        490585.95   3860188.59      179.08593  (15012508)               490635.95
3860188.59      168.22213  (15012508)
        490685.95   3860188.59      159.75923  (19011605)               490735.95
3860188.59      151.02509  (19011605)
        490785.95   3860188.59      144.09540  (19011605)               490835.95
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3860188.59      137.66011  (19011605)
        490885.95   3860188.59      130.52631  (19011605)                490935.95
3860188.59      123.93566  (19011605)
        490985.95   3860188.59      118.57868  (19011605)                491035.95
3860188.59      113.22728  (19011605)
        491085.95   3860188.59      107.91692  (19011605)                491135.95
3860188.59      103.82389  (19011605)
        490135.95   3860238.59      335.76945  (15121708)                490185.95
3860238.59      305.30597  (15121708)
        490235.95   3860238.59      277.46751  (15121708)                490285.95
3860238.59      254.74918  (19010506)
        490335.95   3860238.59      236.72430  (19010506)                490385.95
3860238.59      220.60630  (19010506)
        490435.95   3860238.59      206.53470  (19010506)                490485.95
3860238.59      193.19819  (19010506)
        490535.95   3860238.59      181.91075  (19010506)                490585.95
3860238.59      171.88527  (19010506)
        490635.95   3860238.59      162.75345  (19010506)                490685.95
3860238.59      154.44859  (19010506)
        490735.95   3860238.59      146.63232  (19010506)                490785.95
3860238.59      139.39435  (19010506)
        490835.95   3860238.59      132.64189  (19010506)                490885.95
3860238.59      126.55943  (19010506)
        490935.95   3860238.59      120.85190  (19010506)                490985.95
3860238.59      116.86274  (19010506)
        491035.95   3860238.59      111.44666  (19010506)                491085.95
3860238.59      105.87799  (19010506)
        491135.95   3860238.59      101.45374  (19010506)                490135.95
3860288.59      367.27300  (20120308)
        490185.95   3860288.59      336.89562  (20120308)                490235.95
3860288.59      309.95030  (20120308)
        490285.95   3860288.59      282.87206  (20120308)                490335.95
3860288.59      258.46239  (20120308)
        490385.95   3860288.59      237.48354  (20120308)                490435.95
3860288.59      221.43822  (15121708)
        490485.95   3860288.59      207.41401  (15121708)                490535.95
3860288.59      194.12668  (15121708)
        490585.95   3860288.59      182.19704  (15121708)                490635.95
3860288.59      171.74283  (15121708)
        490685.95   3860288.59      162.37119  (15121708)                490735.95
3860288.59      153.43711  (15121708)
        490785.95   3860288.59      145.31167  (15121708)                490835.95
3860288.59      137.30429  (15121708)
        490885.95   3860288.59      130.27600  (15121708)                490935.95
3860288.59      123.17639  (15121708)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490985.95	3860288.59	117.80422	(15121708)	491035.95	3860288.59	111.78055	(15121708)
491085.95	3860288.59	105.87133	(15121708)	490135.95	3860338.59	312.03161	(19022503)
490185.95	3860338.59	289.00215	(16120801)	490235.95	3860338.59	272.12026	(18120821)
490285.95	3860338.59	258.91523	(20120308)	490335.95	3860338.59	247.64823	(20120308)
490385.95	3860338.59	236.12213	(20120308)	490435.95	3860338.59	224.26240	(20120308)
490485.95	3860338.59	212.30541	(20120308)	490535.95	3860338.59	201.23919	(20120308)
490585.95	3860338.59	189.62284	(20120308)	490635.95	3860338.59	179.03819	(20120308)
490685.95	3860338.59	169.21377	(20120308)	490735.95	3860338.59	159.90619	(20120308)
490785.95	3860338.59	152.03362	(20120308)	490835.95	3860338.59	143.10256	(20120308)
490885.95	3860338.59	134.94277	(20120308)	490935.95	3860338.59	127.09378	(20120308)
490985.95	3860338.59	119.66712	(20120308)	491035.95	3860338.59	114.92109	(15121708)
491085.95	3860338.59	110.28821	(15121708)	490135.95	3860388.59	316.86400	(18120708)
490185.95	3860388.59	284.08553	(15020408)	490235.95	3860388.59	269.00230	(15020408)

490285.95 3860388.59 248.92242 (15020408) 490335.95
3860388.59 226.93562 (15020408)
490385.95 3860388.59 209.22398 (19022503) 490435.95
3860388.59 196.16786 (19022503)
490485.95 3860388.59 185.15368 (16120801) 490535.95
3860388.59 175.17467 (18120821)
490585.95 3860388.59 167.27645 (18120821) 490635.95
3860388.59 159.07950 (20120308)
490685.95 3860388.59 155.15682 (20120308) 490735.95
3860388.59 150.29824 (20120308)
490785.95 3860388.59 145.53772 (20120308) 490835.95
3860388.59 141.00203 (20120308)
490135.95 3860438.59 289.49292 (20120318) 490185.95
3860438.59 278.83303 (18120708)
490235.95 3860438.59 269.00407 (18120708) 490285.95
3860438.59 251.69210 (18120708)
490335.95 3860438.59 229.38127 (18120708) 490385.95
3860438.59 207.50548 (16122023)
490435.95 3860438.59 198.39932 (15020408) 490485.95
3860438.59 187.75608 (15020408)
490535.95 3860438.59 175.91017 (15020408) 490585.95
3860438.59 162.78798 (15020408)
490635.95 3860438.59 151.38699 (19022503) 490685.95
3860438.59 144.56777 (19022503)
490735.95 3860438.59 137.45271 (19022503) 490785.95
3860438.59 131.09913 (16120801)
490835.95 3860438.59 125.92571 (16120801) 490135.95
3860488.59 278.42240 (18022523)
490185.95 3860488.59 261.45060 (18011522) 490235.95
3860488.59 238.01642 (18120921)
490285.95 3860488.59 227.15095 (20120318) 490335.95
3860488.59 214.99616 (18120708)
490385.95 3860488.59 211.39306 (18120708) 490435.95
3860488.59 203.71613 (18120708)
490485.95 3860488.59 190.70230 (18120708) 490535.95
3860488.59 175.40414 (18120708)
490585.95 3860488.59 159.83474 (15020502) 490635.95
3860488.59 153.40611 (15020408)
490685.95 3860488.59 147.11696 (15020408) 490735.95
3860488.59 140.34720 (15020408)
490785.95 3860488.59 132.63825 (15020408) 490135.95
3860538.59 257.97783 (18020124)
490185.95 3860538.59 240.57249 (19020204) 490235.95
3860538.59 231.87337 (18022523)
490285.95 3860538.59 219.66386 (18022523) 490335.95
3860538.59 207.43920 (18011522)
490385.95 3860538.59 191.71843 (18120921) 490435.95
3860538.59 183.91200 (20120318)
490485.95 3860538.59 176.27572 (20120318) 490535.95
3860538.59 174.32332 (18120708)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
INCLUDING SOURCE(S): L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490785.95	3860538.59	128.74669	(15020502)	490135.95	3860588.59	252.42577	(15011619)
490185.95	3860588.59	232.07502	(18011122)	490235.95	3860588.59	217.25049	(18020124)
490285.95	3860588.59	204.16213	(19020204)	490335.95	3860588.59	193.95228	(18022523)
490385.95	3860588.59	189.28826	(18011721)	490435.95	3860588.59	182.80705	(18011522)
490485.95	3860588.59	174.60347	(18011522)	490535.95	3860588.59	160.66581	(18120921)
490585.95	3860588.59	150.57318	(20120318)	490635.95	3860588.59	145.37556	(20120318)
490685.95	3860588.59	139.74598	(18120708)	490735.95	3860588.59	137.94560	(18120708)
490785.95	3860588.59	133.76220	(18120708)	490135.95	3860638.59	243.55746	(18020819)
490185.95	3860638.59	227.47194	(18020819)	490235.95			

3860638.59 212.06510 (15011619)
490285.95 3860638.59 201.38540 (18011122) 490335.95
3860638.59 188.38677 (18011122)
490385.95 3860638.59 177.46785 (19020204) 490435.95
3860638.59 165.00499 (15123001)
490485.95 3860638.59 163.24939 (18022523) 490535.95
3860638.59 158.52766 (18011721)
490585.95 3860638.59 150.11296 (18011522) 490635.95
3860638.59 141.55912 (18011522)
490685.95 3860638.59 132.08602 (18120921) 490735.95
3860638.59 126.59907 (20120318)
490785.95 3860638.59 123.10697 (20120318) 490135.95
3860688.59 187.53448 (18020819)
490185.95 3860688.59 212.53755 (18020819) 490235.95
3860688.59 208.90935 (18020819)
490285.95 3860688.59 188.01619 (18020819) 490335.95
3860688.59 183.63317 (15011619)
490385.95 3860688.59 176.25531 (18011122) 490435.95
3860688.59 165.02845 (18011122)
490485.95 3860688.59 154.47091 (19020204) 490535.95
3860688.59 144.77290 (19020204)
490585.95 3860688.59 140.99842 (18022523) 490635.95
3860688.59 139.00993 (18011721)
490685.95 3860688.59 133.34464 (18011721) 490735.95
3860688.59 127.62499 (18011522)
490785.95 3860688.59 120.83883 (18011522) 490135.95
3860738.59 173.47942 (16021120)
490185.95 3860738.59 163.87207 (18011823) 490235.95
3860738.59 168.20700 (18020819)
490285.95 3860738.59 179.48887 (18020819) 490335.95
3860738.59 177.08853 (18020819)
490385.95 3860738.59 163.37997 (18020819) 490435.95
3860738.59 163.90831 (15011619)
490485.95 3860738.59 155.74368 (18011122) 490535.95
3860738.59 144.63743 (18011122)
490585.95 3860738.59 135.81993 (19020204) 490635.95
3860738.59 129.18794 (19020204)
490685.95 3860738.59 124.00897 (15123001) 490735.95
3860738.59 123.45244 (18011721)
490785.95 3860738.59 121.30221 (18011721) 490135.95
3860788.59 158.50466 (19120601)
490185.95 3860788.59 155.49077 (16021120) 490235.95
3860788.59 148.36263 (18011823)
490285.95 3860788.59 141.79575 (15120519) 490335.95
3860788.59 153.64130 (18020819)
490385.95 3860788.59 160.52103 (18020819) 490435.95
3860788.59 155.49688 (18020819)
490485.95 3860788.59 144.56311 (15011619) 490535.95
3860788.59 142.76214 (15011619)
490585.95 3860788.59 134.90299 (18011122) 490635.95

3860788.59   128.02422 (18011122)
        490685.95   3860788.59   121.41581 (18020124)   490735.95
3860788.59   117.09119 (19020204)
        490785.95   3860788.59   109.86639 (15123001)   489985.95
3860838.59   164.58178 (16011801)
        490035.95   3860838.59   157.35907 (16011801)   490085.95
3860838.59   157.73949 (16022523)
        490135.95   3860838.59   150.14357 (19120601)   490185.95
3860838.59   145.74501 (19120601)
        490235.95   3860838.59   140.91098 (16021120)   490285.95
3860838.59   134.19909 (18011823)
        490335.95   3860838.59   129.52400 (15120519)   490385.95
3860838.59   129.94382 (18020819)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING6 ***
                                  INCLUDING SOURCE(S):   L0000288   , L0000289   , L0000290   , L0000291   , L0000292   ,
                L0000293   , L0000294   , L0000295   , L0000296   , L0000297   , L0000298   , L0000299   , L0000300   ,
                L0000301   , L0000302   , L0000303   , L0000304   , L0000305   , L0000306   , L0000307   , L0000308   ,
                L0000309   , L0000310   , L0000311   , L0000312   , L0000313   , L0000314   , L0000315   , L0000316   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                            ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
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        490835.95   3860838.59      106.03835  (19020204)              489835.95
3860888.59      166.70178  (19122908)
        489885.95   3860888.59      160.21149  (19022504)              489935.95
3860888.59      159.66777  (16010323)
        489985.95   3860888.59      158.02320  (16122308)              490035.95
3860888.59      152.18776  (16011801)
        490085.95   3860888.59      144.69355  (16011801)              490135.95
3860888.59      144.83090  (16022523)
        490185.95   3860888.59      135.57450  (19120601)              490235.95
3860888.59      134.26210  (19120601)
        490285.95   3860888.59      128.05993  (16021120)              490335.95
3860888.59      124.05413  (16021120)
        490385.95   3860888.59      120.25943  (18011823)              490435.95
3860888.59      115.36120  (15120519)
        490485.95   3860888.59      122.86846  (18020819)              490535.95
3860888.59      129.18683  (18020819)
        490585.95   3860888.59      127.89494  (18020819)              490635.95
3860888.59      120.08619  (18020819)
        490685.95   3860888.59      114.06627  (15011619)              490735.95
3860888.59      112.86686  (15011619)
        490785.95   3860888.59      108.50536  (18011122)              490835.95
3860888.59      104.56719  (18011122)
        490885.95   3860888.59      100.53070  (18020124)              490935.95
3860888.59       96.66326  (19020204)
        489835.95   3860938.59      155.77197  (16122718)              489885.95
3860938.59      153.08124  (19122908)
        489935.95   3860938.59      149.90465  (19022504)              489985.95
3860938.59      148.61906  (16122308)
        490035.95   3860938.59      143.68518  (16122308)              490085.95
3860938.59      140.13781  (16011801)
        490135.95   3860938.59      131.21880  (16011801)              490185.95
3860938.59      132.03927  (16022523)
        490235.95   3860938.59      124.94175  (16022523)              490285.95
3860938.59      123.88178  (19120601)
        490335.95   3860938.59      116.00200  (16021120)              490385.95
3860938.59      115.61366  (16021120)
        490435.95   3860938.59      111.32630  (18011823)              490485.95
3860938.59      107.05973  (15120519)
        490535.95   3860938.59      105.02488  (18020819)              490585.95
3860938.59      114.03727  (18020819)
        490635.95   3860938.59      117.08863  (18020819)              490685.95
3860938.59      114.51269  (18020819)
        490735.95   3860938.59      107.03767  (18020819)              490785.95
3860938.59      103.45852  (15011619)
        490835.95   3860938.59      102.72873  (15011619)              490885.95
3860938.59       99.83036  (18011122)
        490935.95   3860938.59       96.30415  (18011122)              489835.95
3860988.59      143.20986  (16122718)
        489885.95   3860988.59      144.79638  (19122908)              489935.95
3860988.59      138.99101  (19122908)
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        489985.95   3860988.59      139.54972  (19022504)                490035.95
3860988.59      138.22758  (16122308)
        490085.95   3860988.59      130.86882  (16122308)                490135.95
3860988.59      129.42019  (16011801)
        490185.95   3860988.59      121.89634  (18121521)                490235.95
3860988.59      121.92997  (16022523)
        490285.95   3860988.59      116.07318  (16022523)                490335.95
3860988.59      114.20852  (19120601)
        490385.95   3860988.59      107.96925  (19120601)                490435.95
3860988.59      107.53244  (16021120)
        490485.95   3860988.59      102.43270  (16021120)                490535.95
3860988.59      100.26430  (18011823)
        490585.95   3860988.59       95.70749  (15120519)                490635.95
3860988.59       99.44531  (18020819)
        490685.95   3860988.59      105.54460  (18020819)                490735.95
3860988.59      106.55600  (18020819)
        490785.95   3860988.59      103.25156  (18020819)                490835.95
3860988.59       96.36790  (18020819)
        490885.95   3860988.59       95.38173  (15011619)                490935.95
3860988.59       94.01906  (15011619)
        489835.95   3861038.59      127.16465  (16122118)                489885.95
3861038.59      137.08601  (16122718)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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                                   PAGE 607
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING6 ***
                                   INCLUDING SOURCE(S):     L0000288    , L0000289
, L0000290    , L0000291    , L0000292    ,
                  L0000293    , L0000294    , L0000295    , L0000296    , L0000297
, L0000298    , L0000299    , L0000300    ,
                  L0000301    , L0000302    , L0000303    , L0000304    , L0000305
, L0000306    , L0000307    , L0000308    ,
                  L0000309    , L0000310    , L0000311    , L0000312    , L0000313
, L0000314    , L0000315    , L0000316    ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        489935.95   3861038.59      136.09604  (19122908)                489985.95
3861038.59      128.47288  (19022504)
        490035.95   3861038.59      129.15006  (16010323)                490085.95
3861038.59      128.17641  (16122308)
        490135.95   3861038.59      120.33561  (16122222)                490185.95
3861038.59      119.88648  (16011801)
        490235.95   3861038.59      112.59300  (18121521)                490285.95
3861038.59      112.74795  (16022523)
        490335.95   3861038.59      108.13888  (16022523)                490385.95
3861038.59      106.11136  (19120601)
        490435.95   3861038.59      102.32115  (19120601)                490485.95
3861038.59       99.52416  (16021120)
        490535.95   3861038.59       96.54191  (16021120)                490585.95
3861038.59       93.60449  (18011823)
        490635.95   3861038.59       89.61813  (19022404)                490685.95
3861038.59       85.33100  (18020819)
        490735.95   3861038.59       93.43701  (18020819)                490785.95
3861038.59       97.68648  (18020819)
        490835.95   3861038.59       97.84591  (18020819)                490885.95
3861038.59       94.08907  (18020819)
        490935.95   3861038.59       87.30692  (18020819)                489835.95
3861088.59      120.19304  (19122222)
        489885.95   3861088.59      125.02442  (16122718)                489935.95
3861088.59      127.10749  (16122718)
        489985.95   3861088.59      125.19910  (19122908)                490035.95
3861088.59      121.66705  (19022504)
        490085.95   3861088.59      120.00989  (16010323)                490135.95
3861088.59      119.30414  (16122308)
        490185.95   3861088.59      113.74079  (16122222)                490235.95
3861088.59      112.07644  (16011801)
        490285.95   3861088.59      104.77418  (18121521)                490335.95
3861088.59      104.91098  (16022523)
        490385.95   3861088.59      101.92763  (16022523)                490435.95
3861088.59       98.69341  (19120601)
        490485.95   3861088.59       96.04858  (19120601)                490535.95
3861088.59       91.94003  (16021120)
        490585.95   3861088.59       90.67001  (16021120)                490635.95
3861088.59       86.58712  (18011823)
        490685.95   3861088.59       84.43584  (18011823)                490735.95
3861088.59       81.05043  (19022404)
        490785.95   3861088.59       82.04068  (18020819)                490835.95
3861088.59       88.17626  (18020819)
        490885.95   3861088.59       90.78404  (18020819)                490935.95
3861088.59       89.96383  (18020819)
        489020.79   3862564.85       42.48942  (15020218)                489043.15
3862350.21       47.77931  (15020218)
        489072.96   3862287.60       49.30747  (15020218)                488980.55
3862078.92       54.41844  (18010720)
        489037.19   3862822.72       45.72416  (20022108)                489120.66
```

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
                                    INCLUDING SOURCE(S):   L0000317   , L0000318 , L0000319   , L0000320   , L0000321   ,
                  L0000322   , L0000323   , L0000324   , L0000325   , L0000326 , L0000327   , L0000328   , L0000329   ,
                  L0000330   , L0000331   , L0000332   , L0000333   , L0000334 , L0000335   , L0000336   , L0000337   ,
                  L0000338   , L0000339   , L0000340   , L0000341   , L0000342 , L0000343   , L0000344   , . . .   ,

                                     *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489237.26   489256.56   489275.86
      489295.16   489314.46
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 3859801.7 |    146.44085 (15012608)    146.04073 (15012608)    149.14956 (16012217)
   154.61671 (16012217)    161.19252 (16012217)
 3859782.3 |    142.21266 (15012608)    143.82314 (16012217)    147.99796 (16012217)
   153.69724 (16012217)    160.05196 (16012217)
 3859762.9 |    140.03015 (16012217)    142.48003 (16012217)    146.85277 (16012217)
   152.78495 (16012217)    159.01564 (16012217)
 3859743.4 |    138.37726 (16012217)    141.31112 (16012217)    145.97209 (16012217)
   151.75460 (16012217)    157.42940 (16012217)
 3859724.0 |    136.99762 (16012217)    140.25531 (16012217)    145.00424 (16012217)
   150.52315 (16012217)    155.35445 (16012217)
 3859704.6 |    135.63485 (16012217)    139.26734 (16012217)    143.94771 (16012217)
   149.01913 (16012217)    152.55424 (16012217)
 3859685.2 |    134.32232 (16012217)    138.31017 (16012217)    142.56517 (16012217)
   146.64545 (16012217)    148.73057 (16012217)
 3859665.8 |    133.26981 (16012217)    137.16064 (16012217)    140.97944 (16012217)
   143.42727 (16012217)    144.38876 (16012217)
 3859646.4 |    132.31209 (16012217)    136.16208 (16012217)    139.94238 (16012217)
   141.72681 (16012217)    142.02217 (16012217)
 3859626.9 |    131.24947 (16012217)    135.09957 (16012217)    138.67093 (16012217)
   139.71469 (16012217)    138.55187 (16012217)
 3859607.5 |    130.30092 (16012217)    133.72541 (16012217)    136.50603 (16012217)
   136.83713 (16012217)    135.37026 (18122220)
 3859588.1 |    129.33202 (16012217)    132.49164 (16012217)    134.28746 (16012217)
   133.56399 (16012217)    135.04720 (18122220)
 3859568.7 |    128.30522 (16012217)    131.92613 (16012217)    132.52329 (16012217)
   130.66037 (16012217)    133.97518 (18122220)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 609
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
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  Y-COORD  |                                                    X-COORD (METERS)
  (METERS) |       489333.76               489353.06               489372.36
      489391.66               489410.96
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    189.04977 (16020306)    190.38789 (16012217)    202.10130 (16012217)
   214.87366 (16012217)    227.62831 (16012217)
 3859937.6 |    181.21661 (15012608)    188.22180 (16012217)    199.87137 (16012217)
   213.41107 (16012217)    223.94729 (16012217)
 3859918.2 |    176.06242 (16012217)    187.15738 (16012217)    198.71239 (16012217)
   211.32113 (16012217)    218.90106 (16012217)
 3859898.8 |    174.77935 (16012217)    184.42083 (16012217)    196.38686 (16012217)
   206.46353 (16012217)    212.00138 (16012217)
 3859879.4 |    173.66469 (16012217)    182.75488 (16012217)    192.45400 (16012217)
   200.51485 (16012217)    203.01178 (18122220)
 3859860.0 |    172.34637 (16012217)    180.69845 (16012217)    188.76612 (16012217)
   194.12566 (16012217)    198.71526 (18122220)
 3859840.5 |    170.97250 (16012217)    178.69432 (16012217)    184.65766 (16012217)
   186.94421 (16012217)    193.00065 (18122220)
 3859821.1 |    169.74949 (16012217)    176.70595 (16012217)    180.66391 (16012217)
   181.38748 (18122220)    187.72636 (18122220)
 3859801.7 |    167.55256 (16012217)    173.60726 (16012217)    174.81137 (16012217)
   177.78986 (18122220)    181.24406 (18122220)
 3859782.3 |    165.29455 (16012217)    169.85316 (16012217)    168.74532 (16012217)
   174.18413 (18122220)    176.73125 (18010221)
 3859762.9 |    164.04056 (16012217)    165.92321 (16012217)    167.06437 (18122220)
   171.84812 (18122220)    175.22946 (18010221)
 3859743.4 |    161.30064 (16012217)    161.87665 (16012217)    164.50730 (18122220)
   167.55625 (18122220)    173.23003 (18010221)
 3859724.0 |    158.17344 (16012217)    156.38162 (16012217)    161.24851 (18122220)
   162.52913 (18122220)    170.50849 (18010221)
 3859704.6 |    153.13823 (16012217)    153.70546 (18122220)    157.73417 (18122220)
   159.37152 (18010221)    166.98697 (18010221)
 3859685.2 |    147.98221 (16012217)    151.37988 (18122220)    154.01632 (18122220)
   157.61499 (18010221)    164.01098 (18010221)
 3859665.8 |    144.09264 (18122220)    148.72787 (18122220)    150.41783 (18122220)
   157.11949 (18010221)    162.39432 (18010221)
 3859646.4 |    142.81042 (18122220)    146.20553 (18122220)    146.32057 (18010221)
   154.87323 (18010221)    159.49814 (18010221)
 3859626.9 |    141.27419 (18122220)    143.25945 (18122220)    144.90798 (18010221)
   152.75862 (18010221)    156.03388 (18010221)
 3859607.5 |    139.18061 (18122220)    139.92301 (18122220)    144.32153 (18010221)
   150.45251 (18010221)    152.11454 (18010221)
 3859588.1 |    137.94743 (18122220)    137.83516 (18122220)    143.27185 (18010221)
   147.95961 (18010221)    148.40490 (18010221)
 3859568.7 |    136.02058 (18122220)    135.18263 (18010221)    141.81782 (18010221)
   146.07007 (18010221)    145.39439 (19011424)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 ,
L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 ,
L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 ,
L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489430.26	489449.56	489468.86	489488.16	489507.46
3859957.1	237.86057 (20122517)	245.96488 (18122220)	263.00232 (18010221)	270.29044 (18010221)	275.72801 (20022718)
3859937.6	229.58693 (20122517)	240.10345 (18122220)	259.30456 (18010221)	265.96613 (18010221)	270.51425 (19011424)
3859918.2	225.78702 (18122220)	233.99352 (18010221)	252.94221 (18010221)	259.59724 (19011424)	263.11996 (16122922)
3859898.8	220.55151 (18122220)	230.66581 (18010221)	246.27188 (18010221)	252.01494 (19011424)	255.52304 (16122922)
3859879.4	212.93893 (18122220)	226.83377 (18010221)	238.80130 (18010221)	243.22150 (19011424)	247.50103 (16122922)
3859860.0	204.63068 (18122220)	219.85363 (18010221)	227.53501 (18010221)	232.22484 (19011424)	239.31470 (16122922)
3859840.5	199.28281 (18010221)	212.36767 (18010221)	217.29083 (19011424)	222.07756 (19011424)	231.41321 (16122922)
3859821.1	196.53531 (18010221)	206.95622 (18010221)	211.46518 (19011424)	212.12748 (19011424)	224.77291 (16122922)
3859801.7	191.02643 (18010221)	199.67100 (18010221)	204.46223 (19011424)	203.41218 (19011424)	217.58253 (16122922)
3859782.3	186.47101 (18010221)	190.89803 (18010221)	197.66528 (19011424)	198.56422 (16122922)	211.11549 (20040918)

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 3859762.9 |    183.33902 (18010221)    184.34146 (19011424)    189.22980 (19011424)
   193.61990 (16122922)    207.36357 (20040918)
 3859743.4 |    179.40473 (18010221)    180.40218 (19011424)    183.18839 (19011424)
   189.10490 (16122922)    202.41056 (20040918)
 3859724.0 |    175.13210 (18010221)    176.66713 (19011424)    177.37178 (19011424)
   184.90051 (16122922)    197.63442 (20040918)
 3859704.6 |    170.14722 (18010221)    172.38691 (19011424)    171.13383 (19011424)
   180.72270 (16122922)    192.25695 (20040918)
 3859685.2 |    165.27256 (18010221)    168.07989 (19011424)    165.40498 (19011424)
   176.58785 (16122922)    187.67439 (20040918)
 3859665.8 |    162.60423 (19011424)    164.22552 (19011424)    162.52928 (16122922)
   172.50914 (16122922)    182.55465 (20040918)
 3859646.4 |    160.21268 (19011424)    160.84086 (19011424)    159.89186 (16122922)
   168.79151 (16122922)    178.30767 (20040918)
 3859626.9 |    157.34296 (19011424)    156.66605 (19011424)    157.34599 (16122922)
   164.55957 (16122922)    173.57507 (20040918)
 3859607.5 |    154.00598 (19011424)    152.44854 (19011424)    154.24922 (16122922)
   160.01486 (20040918)    167.52330 (20040918)
 3859588.1 |    150.94238 (19011424)    148.88584 (19011424)    152.50385 (16122922)
   157.98053 (20040918)    164.65243 (20040918)
 3859568.7 |    148.67130 (19011424)    145.68242 (19011424)    151.11054 (16122922)
   156.74155 (20040918)    162.69461 (20040918)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 611
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                               *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489526.76              489546.06              489565.36
      489584.66              489603.96
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                   INCLUDING SOURCE(S):   L0000317   , L0000318
, L0000319   , L0000320   , L0000321   ,
                  L0000322   , L0000323   , L0000324   , L0000325   , L0000326
, L0000327   , L0000328   , L0000329   ,
                  L0000330   , L0000331   , L0000332   , L0000333   , L0000334
, L0000335   , L0000336   , L0000337   ,
                  L0000338   , L0000339   , L0000340   , L0000341   , L0000342
, L0000343   , L0000344   , . . .   ,

                                *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489623.26
 -
- -

 3859957.1 | 206.82863 (15120819)
 3859937.6 | 231.37640 (15120819)
 3859918.2 | 239.10782 (15120819)
 3859898.8 | 242.39270 (15120819)
 3859879.4 | 236.88108 (15120819)
 3859860.0 | 227.44179 (15120819)
 3859840.5 | 218.54710 (16122205)
 3859821.1 | 212.79024 (16122205)
 3859801.7 | 206.79012 (16122205)
 3859782.3 | 201.44454 (16122205)
 3859762.9 | 195.62566 (16122205)
 3859743.4 | 190.88950 (16122205)
 3859724.0 | 185.99188 (16122205)
 3859704.6 | 181.50442 (16122205)
 3859685.2 | 177.42620 (16122205)
 3859665.8 | 173.24375 (16122205)
 3859646.4 | 169.20008 (16122205)
 3859626.9 | 165.86146 (16122205)
 3859607.5 | 162.07743 (16122205)
 3859588.1 | 158.79844 (16122205)
 3859568.7 | 155.26561 (16122205)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 ,
L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 ,
L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 ,
L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489260.34	489284.99	489309.64	489334.29	489358.94
3859173.4	96.60879 (18010221)	102.26956 (18010221)	103.48876 (18010221)	101.80478 (18010221)	103.97874 (19011424)
3859151.9	96.30968 (18010221)	100.13981 (18010221)	101.33187 (18010221)	99.68784 (19011424)	102.36577 (19011424)
3859130.3	95.55671 (18010221)	98.65874 (18010221)	99.56537 (18010221)	98.90878 (19011424)	100.76688 (19011424)
3859108.7	94.64601 (18010221)	97.44677 (18010221)	98.22498 (18010221)	97.98943 (19011424)	99.30444 (19011424)
3859087.1	93.89457 (18010221)	96.58057 (18010221)	96.49314 (18010221)	97.05093 (19011424)	98.01932 (19011424)
3859065.6	93.37061 (18010221)	95.40465 (18010221)	94.73678 (18010221)	96.28278 (19011424)	96.32795 (19011424)
3859044.0	92.81302 (18010221)	94.47074 (18010221)	93.11944 (18010221)	95.12559 (19011424)	94.73555 (19011424)
3859022.4	92.14407 (18010221)	93.02837 (18010221)	91.70329 (18010221)	93.92654 (19011424)	92.99773 (19011424)
3859000.9	91.83599 (18010221)	92.25876 (18010221)	90.80161 (19011424)	92.67088 (19011424)	91.27629 (19011424)
3858979.3	91.14501 (18010221)	91.03891 (18010221)	90.00539 (19011424)	91.39242 (19011424)	89.35418 (19011424)
3858957.7	90.01138 (18010221)	89.40431 (18010221)	89.32267 (19011424)	89.92219 (19011424)	87.42813 (19011424)
3858936.1	88.97944 (18010221)	87.90111 (18010221)	88.39839 (19011424)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 ,
L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 ,
L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 ,
L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	489383.59	489408.24	489432.89	489457.54	489482.19
- - -

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 3859173.4 |    102.63363 (19011424)    100.16957 (16122922)    106.56637 (16122922)
   111.30241 (20040918)    117.56523 (20040918)
 3859151.9 |    100.36625 (19011424)     99.27686 (16122922)    105.08355 (16122922)
   110.04583 (20040918)    115.70687 (20040918)
 3859130.3 |     98.44832 (19011424)     98.49043 (16122922)    104.27866 (16122922)
   108.84686 (20040918)    114.17005 (20040918)
 3859108.7 |     96.10702 (19011424)     97.46582 (16122922)    103.09112 (16122922)
   107.80099 (20040918)    112.44814 (20040918)
 3859087.1 |     93.73718 (19011424)     96.95236 (16122922)    101.78971 (16122922)
   106.52839 (20040918)    110.77240 (20040918)
 3859065.6 |     92.09037 (19011424)     96.27476 (16122922)    100.49740 (16122922)
   105.20701 (20040918)    109.08119 (20040918)
 3859044.0 |     89.98909 (19011424)     95.35967 (16122922)     99.06401 (16122922)
   103.90171 (20040918)    107.48362 (20040918)
 3859022.4 |     88.59644 (16122922)     94.33591 (16122922)     97.63459 (16122922)
   102.62949 (20040918)    106.20949 (20040918)
 3859000.9 |     87.99262 (16122922)     93.34188 (16122922)     96.24731 (16122922)
   101.45916 (20040918)    104.63286 (20040918)
 3858979.3 |     87.26197 (16122922)     92.32360 (16122922)     95.02081 (20040918)
   100.21180 (20040918)    103.14481 (20040918)
 3858957.7 |     86.60707 (16122922)     91.34787 (16122922)     94.22070 (20040918)
    98.98095 (20040918)    101.69012 (20040918)
 3858936.1 |     86.00975 (16122922)     90.42320 (16122922)     93.35102 (20040918)
    97.99504 (20040918)    100.56903 (20040918)
 3858914.6 |     85.30131 (16122922)     89.41000 (16122922)     92.69484 (20040918)
    97.10521 (20040918)     99.17831 (20040918)
 3858893.0 |     84.61618 (16122922)     88.55479 (16122922)     91.78779 (20040918)
    95.96040 (20040918)     98.02210 (20040918)
 3858871.4 |     84.02606 (16122922)     87.54914 (16122922)     90.89033 (20040918)
    95.01033 (20040918)     96.79768 (20040918)
 3858849.9 |     83.27465 (16122922)     86.65065 (16122922)     90.09623 (20040918)
    94.19233 (20040918)     95.74048 (20040918)
 3858828.3 |     82.60987 (16122922)     85.72136 (16122922)     89.48106 (20040918)
    93.10745 (20040918)     94.46565 (20040918)
 3858806.7 |     81.96652 (16122922)     84.91089 (16122922)     88.60410 (20040918)
    92.18023 (20040918)     93.29301 (20040918)
 3858785.2 |     81.25616 (16122922)     83.92955 (16122922)     87.92395 (20040918)
    91.30260 (20040918)     92.34407 (20040918)
 3858763.6 |     80.59075 (16122922)     82.87247 (16122922)     87.19520 (20040918)
    90.27127 (20040918)     91.26740 (20040918)
 3858742.0 |     79.93095 (16122922)     82.08856 (16122922)     86.36510 (20040918)
    89.25651 (20040918)     90.09219 (20040918)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 615
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 ,
L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 ,
L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 ,
L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489506.84	489531.49	489556.14	489580.79	489605.44
3859173.4	119.33682 (20040918)	115.36072 (20040918)	114.99787 (16020819)	116.33151 (16020819)	110.65505 (16020819)
3859151.9	117.22767 (20040918)	113.07233 (20040918)	112.90000 (16020819)	114.22490 (16020819)	108.80532 (16020819)
3859130.3	115.18044 (20040918)	110.83940 (20040918)	111.14390 (16020819)	112.23958 (16020819)	107.07478 (16020819)
3859108.7	113.16061 (20040918)	109.05336 (20040918)	109.28444 (16020819)	110.55612 (16020819)	105.60461 (16020819)
3859087.1	111.02586 (20040918)	106.95858 (20040918)	107.48522 (16020819)	108.73284 (16020819)	104.13801 (16020819)
3859065.6	109.15997 (20040918)	104.93110 (20040918)	105.71522 (16020819)	107.09489 (16020819)	102.56185 (16020819)
3859044.0	107.65871 (20040918)	102.96793 (20040918)	104.14348 (16020819)	105.36604 (16020819)	101.21693 (16020819)
3859022.4	105.89364 (20040918)	101.22373 (20040918)	102.39891 (16020819)	103.68929 (16020819)	99.70954 (16020819)
3859000.9	104.49119 (20040918)	99.68199 (20040918)	100.93312 (16020819)	102.25963 (16020819)	98.18474 (16020819)
3858979.3	102.81886 (20040918)	98.03280 (20040918)	99.36954 (16020819)	100.67247 (16020819)	96.75039 (16020819)
3858957.7	101.12406 (20040918)	96.61772 (20040918)	97.96659 (16020819)	99.13249 (16020819)	95.35459 (16020819)
3858936.1	99.54193 (20040918)	94.99431 (20040918)	96.66510 (16020819)	97.80755 (16020819)	94.21115 (16020819)
3858914.6	97.93568 (20040918)	93.35568 (20040918)	95.24899 (16020819)	96.33585 (16020819)	92.85961 (16020819)
3858893.0	96.37077 (20040918)	91.80621 (20040918)	93.89858 (16020819)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 ,
L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 ,
L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 ,
L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	489630.09	489654.74	489679.39	489704.04	489728.69
3859173.4	109.17059 (15120819)	108.98836 (16122205)	102.24434 (15120819)	98.42521 (19102618)	98.51622 (18120603)
3859151.9	107.18441 (15120819)	107.25321 (16122205)	101.02939 (15120819)	96.56911 (19102618)	95.66960 (19102618)

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 3859130.3 |    105.31156 (15120819)    105.50379 (16122205)    100.12701 (15120819)
    94.96590 (19102618)     94.58919 (19102618)
 3859108.7 |    103.77796 (15120819)    104.04666 (16122205)     99.02751 (15120819)
    93.19153 (19102618)     93.43944 (19102618)
 3859087.1 |    102.10506 (15120819)    102.53757 (16122205)     98.04442 (15120819)
    91.54997 (19102618)     92.11673 (19102618)
 3859065.6 |    100.71463 (15120819)    100.92407 (16122205)     96.96209 (15120819)
    89.81797 (19102618)     90.95440 (19102618)
 3859044.0 |     99.07012 (15120819)     99.61746 (15120819)     96.12539 (15120819)
    88.81162 (15120819)     89.56164 (19102618)
 3859022.4 |     97.75449 (15120819)     98.23174 (15120819)     95.25849 (15120819)
    88.29393 (15120819)     88.38111 (19102618)
 3859000.9 |     96.22407 (15120819)     97.06054 (15120819)     94.19981 (15120819)
    87.63335 (15120819)     87.13179 (19102618)
 3858979.3 |     94.93712 (15120819)     95.74384 (15120819)     93.35753 (15120819)
    87.14050 (15120819)     85.76239 (19102618)
 3858957.7 |     93.50813 (15120819)     94.40095 (15120819)     92.25314 (15120819)
    86.33134 (15120819)     84.42376 (19102618)
 3858936.1 |     92.13334 (15120819)     93.31104 (15120819)     91.22607 (15120819)
    85.63281 (15120819)     83.02836 (19102618)
 3858914.6 |     90.95417 (15120819)     92.07599 (15120819)     90.14932 (15120819)
    84.90449 (15120819)     81.66682 (19102618)
 3858893.0 |     89.60428 (15120819)     90.81236 (15120819)     89.09329 (15120819)
    84.15050 (15120819)     80.30805 (19102618)
 3858871.4 |     88.31727 (15120819)     89.66211 (15120819)     88.05340 (15120819)
    83.39775 (15120819)     79.09382 (19102618)
 3858849.9 |     87.12113 (15120819)     88.49477 (15120819)     87.07697 (15120819)
    82.68175 (15120819)     77.79174 (19102618)
 3858828.3 |     85.87804 (15120819)     87.31333 (15120819)     86.09052 (15120819)
    82.12378 (15120819)     76.50531 (19102618)
 3858806.7 |     84.69631 (15120819)     86.45152 (15120819)     85.30134 (15120819)
    81.38146 (15120819)     75.25351 (19102618)
 3858785.2 |     83.61930 (15120819)     85.45418 (15120819)     84.36701 (15120819)
    80.72460 (15120819)     74.39636 (15120819)
 3858763.6 |     82.64110 (15120819)     84.34903 (15120819)     83.48590 (15120819)
    80.01970 (15120819)     73.95755 (15120819)
 3858742.0 |     81.50799 (15120819)     83.22391 (15120819)     82.50884 (15120819)
    79.22972 (15120819)     73.50976 (15120819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                         ***        01:16:45

                                    PAGE 617
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                    INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
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                 L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                 L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                 L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489753.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3859173.4 |    105.61538 (18120603)
 3859151.9 |    103.22364 (18120603)
 3859130.3 |    100.67441 (18120603)
 3859108.7 |     98.21725 (18120603)
 3859087.1 |     95.83633 (18120603)
 3859065.6 |     93.61993 (18120603)
 3859044.0 |     91.12660 (18120603)
 3859022.4 |     88.89596 (18120603)
 3859000.9 |     86.50990 (18120603)
 3858979.3 |     84.40324 (19102618)
 3858957.7 |     83.42448 (19102618)
 3858936.1 |     82.46380 (19102618)
 3858914.6 |     81.47753 (19102618)
 3858893.0 |     80.45251 (19102618)
 3858871.4 |     79.57780 (19102618)
 3858849.9 |     78.56683 (19102618)
 3858828.3 |     77.50637 (19102618)
 3858806.7 |     76.51206 (19102618)
 3858785.2 |     75.48900 (19102618)
 3858763.6 |     74.43401 (19102618)
 3858742.0 |     73.38490 (19102618)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 618
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000317    , L0000318
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, L0000319    , L0000320    , L0000321    ,
                L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       488584.66              488614.48              488644.30
      488674.12              488703.94
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3858905.0 |     69.14965 (15012608)     71.66746 (15012608)     73.29772 (15012608)
    72.99510 (15012608)     70.77396 (15012608)
 3858880.0 |     69.45411 (15012608)     71.26117 (15012608)     72.18393 (15012608)
    70.88730 (15012608)     68.19636 (15012608)
 3858855.1 |     69.37387 (15012608)     70.47471 (15012608)     70.74842 (15012608)
    68.86983 (15012608)     64.93816 (15012608)
 3858830.2 |     68.98989 (15012608)     69.69945 (15012608)     69.17150 (15012608)
    66.26839 (15012608)     61.80187 (19121917)
 3858805.3 |     69.21784 (15012608)     69.58425 (15012608)     66.83938 (15012608)
    63.07232 (15012608)     61.29961 (19121917)
 3858780.3 |     67.79694 (15012608)     66.66897 (15012608)     64.13353 (15012608)
    59.72731 (15012608)     60.99532 (19121917)
 3858755.4 |     66.26093 (15012608)     64.35885 (15012608)     61.21426 (15012608)
    59.29788 (19121917)     60.05041 (19121917)
 3858730.5 |     64.56761 (15012608)     62.01409 (15012608)     58.09368 (15012608)
    58.69032 (19121917)     58.82787 (19121917)
 3858705.5 |     62.59595 (15012608)     59.27027 (15012608)     57.36488 (19121917)
    57.90673 (19121917)     57.49085 (19121917)
 3858680.6 |     60.26560 (15012608)     56.30659 (15012608)     57.43265 (19121917)
    57.50031 (19121917)     56.12792 (19121917)
 3858655.7 |     57.96059 (15012608)     55.42205 (19121917)     56.18490 (19121917)
    56.17276 (19121917)     55.17362 (20090924)
 3858630.8 |     55.26815 (15012608)     55.12476 (19121917)     55.65799 (19121917)
    54.80587 (19121917)     54.72001 (20090924)
 3858605.8 |     54.69051 (19121917)     55.06676 (19121917)     54.80908 (19121917)
    53.53610 (20090924)     53.81924 (20090924)
 3858580.9 |     54.73224 (19121917)     54.46962 (19121917)     53.77738 (19121917)
    53.21522 (20090924)     53.14650 (20090924)
 3858556.0 |     53.71699 (19121917)     53.44721 (19121917)     52.40971 (20090924)
    52.72681 (20090924)     52.03373 (15013017)
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 3858531.0 |     53.68299 (19121917)     52.75022 (19121917)     52.13962 (20090924)
    51.93394 (20090924)     52.28916 (20040923)
 3858506.1 |     52.89750 (19121917)     51.52090 (19121917)     51.84601 (20090924)
    51.35934 (20090924)     53.18255 (20040923)
 3858481.2 |     51.97354 (19121917)     51.16624 (20090924)     51.41663 (20090924)
    50.60478 (15013017)     53.71602 (20040923)
 3858456.2 |     50.95525 (19121917)     51.03328 (20090924)     50.54844 (20090924)
    51.12289 (20040923)     53.80710 (20040923)
 3858431.3 |     50.51918 (20090924)     50.65967 (20090924)     49.62357 (20090924)
    51.50346 (20040923)     53.96898 (16020520)
 3858406.4 |     49.94660 (20090924)     49.77022 (20090924)     48.96453 (15013017)
    51.66071 (20040923)     54.46660 (16020520)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 619
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                               INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       488733.76              488763.58              488793.40
      488823.22              488853.04
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3858905.0 |     66.88169 (15012608)     66.37548 (19121917)     65.96163 (19121917)
    64.41515 (20090924)     64.46109 (20040923)
 3858880.0 |     64.88965 (19121917)     65.30262 (19121917)     64.26232 (19121917)
    63.25343 (20090924)     64.11378 (20040923)
 3858855.1 |     64.58084 (19121917)     63.49214 (19121917)     62.37919 (19121917)
    62.13299 (20090924)     64.33912 (16020520)
 3858830.2 |     62.61588 (19121917)     62.31463 (19121917)     61.22514 (20090924)
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    60.73299 (20090924)     64.72002 (16020520)
 3858805.3 |     61.82550 (19121917)     60.81128 (19121917)     60.33434 (20090924)
    61.07094 (20040923)     65.46566 (16020520)
 3858780.3 |     60.73955 (19121917)     59.48461 (20090924)     59.41311 (20090924)
    61.81457 (16020520)     66.68968 (16020520)
 3858755.4 |     59.21971 (19121917)     58.90226 (20090924)     58.84219 (20040923)
    62.58598 (16020520)     66.71462 (16020520)
 3858730.5 |     57.57435 (20090924)     57.80837 (20090924)     59.05346 (20040923)
    62.90213 (16020520)     66.55525 (16012217)
 3858705.5 |     56.62487 (20090924)     56.56580 (20090924)     59.37110 (20040923)
    63.07414 (16020520)     66.78796 (16012217)
 3858680.6 |     55.93045 (20090924)     55.70987 (20040923)     59.61174 (16020520)
    63.12847 (16020520)     67.23548 (16012217)
 3858655.7 |     55.20101 (20090924)     56.56331 (20040923)     60.12960 (16020520)
    63.67402 (16020520)     67.24116 (16012217)
 3858630.8 |     54.16323 (20090924)     56.88411 (20040923)     60.94134 (16020520)
    63.77175 (16012217)     67.29308 (16012217)
 3858605.8 |     54.22461 (20040923)     57.18903 (16020520)     61.09340 (16020520)
    64.23929 (16012217)     67.24598 (16012217)
 3858580.9 |     54.68870 (20040923)     58.13507 (16020520)     61.32639 (16020520)
    64.59387 (16012217)     67.39811 (16012217)
 3858556.0 |     55.45506 (20040923)     58.80332 (16020520)     61.52582 (16020520)
    64.82962 (16012217)     66.97922 (16012217)
 3858531.0 |     55.46423 (20040923)     59.09805 (16020520)     61.68496 (16012217)
    64.70255 (16012217)     66.44888 (16012217)
 3858506.1 |     56.10978 (16020520)     59.12630 (16020520)     62.22180 (16012217)
    64.68975 (16012217)     66.08402 (16012217)
 3858481.2 |     56.53001 (16020520)     59.47085 (16020520)     62.46454 (16012217)
    64.82081 (16012217)     66.01858 (16012217)
 3858456.2 |     57.07948 (16020520)     59.54342 (16012217)     62.80146 (16012217)
    64.74919 (16012217)     65.93324 (16012217)
 3858431.3 |     57.15642 (16020520)     59.99312 (16012217)     63.31086 (16012217)
    64.70704 (16012217)     64.84119 (16012217)
 3858406.4 |     57.34120 (16020520)     60.24091 (16012217)     63.21908 (16012217)
    64.34998 (16012217)     63.92626 (16012217)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                         ***        01:16:45

                                    PAGE 620
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                    INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                   L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                   L0000330    , L0000331    , L0000332    , L0000333    , L0000334
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, L0000335    , L0000336    , L0000337    ,
                L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       488882.86               488912.68              488942.50
      488972.32              489002.14
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3858905.0 |     67.79732 (16020520)     72.09124 (16012217)     75.62079 (16012217)
    79.63957 (16012217)     80.95100 (16012217)
 3858880.0 |     68.67826 (16020520)     72.70058 (16012217)     76.09399 (16012217)
    78.94723 (16012217)     80.05568 (16012217)
 3858855.1 |     68.98940 (16020520)     73.51918 (16012217)     75.93269 (16012217)
    78.15341 (16012217)     78.86647 (16012217)
 3858830.2 |     69.09456 (16020520)     73.52647 (16012217)     76.08663 (16012217)
    78.15638 (16012217)     77.40545 (16012217)
 3858805.3 |     69.17280 (16012217)     73.36587 (16012217)     76.00299 (16012217)
    78.28610 (16012217)     76.26828 (16012217)
 3858780.3 |     70.37475 (16012217)     73.73822 (16012217)     75.73103 (16012217)
    76.69471 (16012217)     75.20375 (16012217)
 3858755.4 |     70.57774 (16012217)     73.66380 (16012217)     75.12771 (16012217)
    75.11315 (16012217)     73.53778 (16012217)
 3858730.5 |     70.51080 (16012217)     72.88967 (16012217)     74.17351 (16012217)
    73.66770 (16012217)     71.74813 (20122517)
 3858705.5 |     70.17830 (16012217)     72.28618 (16012217)     73.12191 (16012217)
    72.31805 (16012217)     69.93214 (20122517)
 3858680.6 |     70.49835 (16012217)     72.06132 (16012217)     72.21778 (16012217)
    70.73750 (16012217)     68.70981 (18122220)
 3858655.7 |     70.10084 (16012217)     71.24748 (16012217)     71.15433 (16012217)
    68.82061 (16012217)     68.51168 (18122220)
 3858630.8 |     69.79738 (16012217)     70.29040 (16012217)     69.84930 (16012217)
    67.44153 (20122517)     68.63445 (18122220)
 3858605.8 |     69.20514 (16012217)     69.22029 (16012217)     68.30953 (16012217)
    66.26045 (20122517)     68.41883 (18122220)
 3858580.9 |     68.46945 (16012217)     68.04151 (16012217)     66.67085 (16012217)
    65.43688 (18122220)     68.13478 (18122220)
 3858556.0 |     67.88239 (16012217)     67.28418 (16012217)     65.33819 (20122517)
    65.40200 (18122220)     68.04389 (18122220)
 3858531.0 |     67.19249 (16012217)     66.23669 (16012217)     64.66924 (20122517)
    65.30381 (18122220)     67.49758 (18122220)
 3858506.1 |     66.49563 (16012217)     65.25986 (16012217)     63.88595 (20122517)
    65.42688 (18122220)     67.10169 (18122220)
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 ,
L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 ,
L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 ,
L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489031.96	489061.78	489091.60	489121.42	489151.24
3858905.0	80.63818 (16012217)	78.20707 (16012217)	79.48495 (18122220)	81.62154 (18122220)	81.44146 (18122220)
3858880.0	78.98605 (16012217)	76.40693 (20122517)	79.07744 (18122220)	80.66160 (18122220)	80.58174 (18122220)
3858855.1	77.08130 (16012217)	75.87671 (18122220)	78.63174 (18122220)	79.74175 (18122220)	79.07789 (18122220)
3858830.2	75.20519 (16012217)	75.47382 (18122220)	78.21954 (18122220)	79.26040 (18122220)	77.18749 (18122220)
3858805.3	73.45449 (20122517)	75.55569 (18122220)	77.31721 (18122220)	77.71007 (18122220)	75.67130 (18122220)
3858780.3	72.56221 (20122517)	75.24584 (18122220)	76.86557 (18122220)		

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    76.35553 (18122220)     74.10038 (18010221)
 3858755.4 |     72.38594 (18122220)     75.22192 (18122220)     76.32726 (18122220)
    75.11267 (18122220)     74.05204 (18010221)
 3858730.5 |     72.06674 (18122220)     74.92465 (18122220)     75.39094 (18122220)
    73.66503 (18122220)     73.96167 (18010221)
 3858705.5 |     71.66922 (18122220)     73.87141 (18122220)     74.03656 (18122220)
    71.97388 (18122220)     73.66709 (18010221)
 3858680.6 |     71.63271 (18122220)     72.86318 (18122220)     72.32306 (18122220)
    70.11450 (18122220)     73.35330 (18010221)
 3858655.7 |     71.21239 (18122220)     72.43333 (18122220)     71.26114 (18122220)
    69.24517 (18010221)     72.97308 (18010221)
 3858630.8 |     70.71738 (18122220)     71.47697 (18122220)     70.00451 (18122220)
    69.08687 (18010221)     72.38839 (18010221)
 3858605.8 |     70.27637 (18122220)     70.35884 (18122220)     68.51387 (18122220)
    68.89097 (18010221)     72.09636 (18010221)
 3858580.9 |     69.62786 (18122220)     69.29890 (18122220)     66.99141 (18122220)
    68.81188 (18010221)     71.79009 (18010221)
 3858556.0 |     69.00363 (18122220)     68.10425 (18122220)     65.44350 (18122220)
    68.70098 (18010221)     71.24895 (18010221)
 3858531.0 |     68.11039 (18122220)     66.89245 (18122220)     64.83486 (18010221)
    68.40886 (18010221)     70.70152 (18010221)
 3858506.1 |     67.14571 (18122220)     65.64584 (18122220)     64.73521 (18010221)
    68.07166 (18010221)     70.08032 (18010221)
 3858481.2 |     66.31558 (18122220)     64.22565 (18122220)     64.73427 (18010221)
    67.72672 (18010221)     69.54305 (18010221)
 3858456.2 |     65.25464 (18122220)     62.92142 (18122220)     64.57568 (18010221)
    67.46640 (18010221)     68.88848 (18010221)
 3858431.3 |     64.26302 (18122220)     61.43452 (18122220)     64.38756 (18010221)
    67.05239 (18010221)     68.30920 (18010221)
 3858406.4 |     63.04600 (18122220)     60.81765 (18010221)     64.30585 (18010221)
    66.72919 (18010221)     67.59091 (18010221)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                   INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,
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*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)
489181.06	
3858905.0	79.41042 (18122220)
3858880.0	79.17397 (18010221)
3858855.1	79.20401 (18010221)
3858830.2	79.00690 (18010221)
3858805.3	78.59922 (18010221)
3858780.3	78.31361 (18010221)
3858755.4	77.81072 (18010221)
3858730.5	77.28190 (18010221)
3858705.5	76.86320 (18010221)
3858680.6	76.21625 (18010221)
3858655.7	75.50727 (18010221)
3858630.8	74.72396 (18010221)
3858605.8	73.92186 (18010221)
3858580.9	73.15531 (18010221)
3858556.0	72.24768 (18010221)
3858531.0	71.45472 (18010221)
3858506.1	70.55819 (18010221)
3858481.2	69.55524 (18010221)
3858456.2	68.64436 (18010221)
3858431.3	67.68290 (18010221)
3858406.4	66.58255 (18010221)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 ,
L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 ,
L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 ,
L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489386.10	489460.62	489535.14	489609.66	489684.18
3861675.8	82.09661 (16122819)	83.54185 (19121703)	88.07809 (15010420)	85.77908 (20021406)	85.27469 (16020720)
3861650.6	85.48904 (16122819)	85.44541 (19121703)	91.26104 (15010420)	88.83805 (20021406)	88.10509 (16020720)
3861625.5	88.84447 (16122819)	87.88881 (15010903)	93.79140 (15010420)	91.38200 (20021406)	90.69830 (16020720)
3861600.3	92.00724 (16122819)	91.81198 (15010903)	96.33250 (15010420)	94.06416 (20021406)	94.09900 (16020720)
3861575.2	97.01449 (16122819)	94.77873 (15010903)	98.74412 (15010420)	97.09967 (19121219)	96.75122 (16020720)
3861550.1	100.41474 (16122819)	98.10124 (15010903)	102.12160 (15010420)	100.08183 (19121219)	97.88362 (16020720)
3861524.9	103.36531 (16122819)	101.82014 (15010903)	105.42304 (15010420)	102.94962 (19121219)	99.62434 (16020720)
3861499.8	106.23436 (16122819)	105.37194 (15010903)	108.62237 (15010420)	106.43275 (19121219)	102.31705 (16020720)
3861474.6	108.99314 (16122819)	108.86122 (15010903)	112.01746 (15010420)	110.29663 (19121219)	105.73359 (16020722)
3861449.5	111.45245 (18010720)	112.41986 (15010903)	115.62674 (15010420)	113.90915 (19121219)	108.39831 (16020722)
3861424.4	115.30772 (18010720)	116.21110 (15010903)	119.28766 (15010420)	117.56734 (19121219)	112.35820 (16020722)
3861399.2	118.96790 (18010720)	119.67751 (15010903)	122.99193 (15010420)	122.01619 (19121219)	116.40502 (16020722)
3861374.1	122.17906 (18010720)	122.93193 (15010903)	127.34340 (15010420)	126.77355 (19121219)	120.14252 (16020722)
3861348.9	125.06772 (18010720)	127.14080 (16110824)	132.00596 (15010420)	131.43956 (19121219)	123.47476 (16020722)
3861323.8	128.38552 (16020222)	132.90507 (16111921)	137.47864 (15010420)	136.41742 (19121219)	127.09520 (16020722)
3861298.7	131.78863 (16020222)	140.34936 (16122819)	143.40044 (15010420)	141.97113 (19121219)	131.41174 (16020722)
3861273.5	136.70612 (19122903)	147.84684 (16122819)	149.28709 (15010420)	148.68678 (19121219)	134.25961 (16020722)
3861248.4	142.11875 (19122903)	155.97463 (16122819)	156.89093 (19121703)	155.37469 (19121219)	136.98254 (16020722)
3861223.2	147.98567 (16121423)	165.07995 (16122819)	165.54097 (19121703)		

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):   L0000317   , L0000318 , L0000319   , L0000320   , L0000321   ,
                 L0000322   , L0000323   , L0000324   , L0000325   , L0000326 , L0000327   , L0000328   , L0000329   ,
                 L0000330   , L0000331   , L0000332   , L0000333   , L0000334 , L0000335   , L0000336   , L0000337   ,
                 L0000338   , L0000339   , L0000340   , L0000341   , L0000342 , L0000343   , L0000344   , . . .   ,

                                  *** NETWORK ID: UCART4   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489758.70   489833.22   489907.74
      489982.26   490056.78
 - - -

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 3861499.8 |     94.15015 (16122202)     86.46005 (18120822)     79.54052 (19122119)
    72.24243 (19122222)     69.17532 (16122718)
 3861474.6 |     96.15548 (16122202)     88.27513 (18120822)     80.38142 (19122119)
    73.47886 (19122222)     69.84357 (16122718)
 3861449.5 |     98.71045 (19123008)     89.94722 (18120822)     80.93415 (19122119)
    73.45030 (16122118)     70.40860 (16122718)
 3861424.4 |    100.89453 (19123008)     91.45097 (18120822)     83.00775 (19010320)
    74.07762 (16122718)     71.06256 (20010318)
 3861399.2 |    103.10443 (19123008)     92.76584 (18120822)     83.27211 (19010320)
    75.35928 (16122718)     71.68930 (20010318)
 3861374.1 |    104.85195 (19123008)     94.01332 (19122119)     83.21568 (19010320)
    76.54305 (16122718)     72.32804 (20010318)
 3861348.9 |    106.07372 (19123008)     95.42989 (19122119)     83.33509 (19122222)
    77.65071 (16122718)     72.77867 (20010318)
 3861323.8 |    108.25165 (19121118)     95.86650 (19122119)     83.71103 (19122222)
    78.70024 (16122718)     72.92223 (20010318)
 3861298.7 |    111.04761 (18120822)     96.71284 (19122119)     84.24718 (16122118)
    79.99067 (20010318)     72.99218 (20022002)
 3861273.5 |    113.82888 (18120822)     97.45268 (19122119)     85.24495 (16122118)
    81.17231 (20010318)     72.94340 (20022002)
 3861248.4 |    115.71022 (18120822)     98.28543 (19010320)     86.79511 (16122718)
    81.73855 (20010318)     72.80704 (20022002)
 3861223.2 |    117.18123 (18120822)     99.21848 (19010320)     88.13171 (16122718)
    82.11956 (20010318)     72.44115 (20022002)
 3861198.1 |    118.06122 (18120822)     99.56400 (19010320)     89.37458 (16122718)
    82.50769 (20010318)     74.45765 (20022720)
 3861173.0 |    118.39833 (18120822)    100.05943 (19122222)     90.56255 (20010318)
    82.73633 (20010318)     77.74249 (20022720)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 625
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                   *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	490131.30	490205.82	490280.34	490354.86	490429.38
3861675.8	58.76183 (16122718)	56.29469 (20010318)	52.30834 (20022002)	47.52316 (19022504)	45.92817 (16010323)
3861650.6	59.79206 (16122718)	57.13888 (20010318)	53.04926 (20022002)	48.14004 (19022504)	46.47754 (16122308)
3861625.5	61.23790 (16122718)	58.22085 (20010318)	53.81249 (20022002)	49.21675 (19022504)	47.72820 (16122308)
3861600.3	62.91524 (16122718)	59.28851 (20010318)	53.97779 (20022002)	51.08125 (19022504)	49.72123 (16122308)
3861575.2	63.20780 (16122718)	59.64497 (20022002)	53.27804 (20022002)	51.15583 (16010323)	49.94993 (16122308)
3861550.1	64.52372 (20010318)	59.95482 (20022002)	54.36223 (19022504)	51.76500 (16122308)	50.67827 (16122308)
3861524.9	65.19255 (20010318)	59.79035 (20022002)	55.18239 (19022504)	53.17039 (16122308)	50.55812 (16122308)
3861499.8	65.36019 (20010318)	59.97634 (20022002)	56.18112 (19022504)	54.24345 (16122308)	50.32507 (16122308)
3861474.6	65.65516 (20010318)	60.42213 (20022002)	57.06267 (19022504)	54.49584 (16122308)	50.16840 (16122308)
3861449.5	66.98044 (20022002)	60.07282 (19022504)	57.10191 (16122308)	54.43261 (16122308)	49.34490 (16122308)
3861424.4	66.31568 (20022002)	60.70198 (19022504)	57.75066 (16122308)	54.39110 (16122308)	48.55274 (16011801)
3861399.2	66.09895 (20022002)	60.62998 (19022504)	58.13053 (16122308)	54.14432 (16122308)	49.19475 (16011801)
3861374.1	65.89131 (20022002)	60.95418 (19022504)	58.47675 (16122308)	53.59194 (16122308)	49.67089 (16011801)
3861348.9	65.24895 (20022002)	61.49598 (16010323)	58.81328 (16122308)	52.76358 (16122308)	49.86479 (16011801)
3861323.8	64.31181 (20022002)	61.98763 (16122308)	59.01798 (16122308)	53.51572 (20022720)	50.31869 (18011122)
3861298.7	65.60196 (19022504)	62.83020 (16122308)	58.89470 (16122308)	54.08599 (18011122)	49.86579 (16122719)
3861273.5	65.88641 (19022504)	63.79576 (16122308)	58.44329 (18011122)	53.80736 (16011801)	52.15535 (18022523)
3861248.4	66.24876 (16010323)	64.40977 (16122308)	58.47326 (18011122)	55.42911 (18022523)	54.23017 (18022523)
3861223.2	68.47365 (20022720)	64.76715 (16122308)	60.13760 (18022523)	58.27003 (18022523)	56.00948 (18011522)
3861198.1	70.02875 (18011122)	64.94966 (18022523)	64.26973 (18022523)	60.44807 (18011522)	57.33728 (18120921)
3861173.0	70.40366 (16122308)	69.48313 (18022523)	66.31348 (18011522)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 , L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 , L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	490503.90	490578.42	490652.94	490727.46	490801.98
3861675.8	44.95318 (16122308)	41.91051 (16122308)	39.13446 (16011801)	38.40506 (16011801)	36.05711 (18121521)
3861650.6	45.12459 (16122308)	41.83568 (16122308)	40.17508 (16011801)	38.55805 (16011801)	36.77160 (18121521)
3861625.5	45.64892 (16122308)	41.79270 (20120819)	40.96968 (16011801)	38.27778 (16122719)	37.18712 (16021119)
3861600.3	46.77637 (16122308)	42.41239 (16011801)	40.97713 (16011801)	38.41924 (18121521)	37.52789 (16021119)
3861575.2	46.39250 (16122308)	43.11511 (16011801)	40.80956 (16011801)	38.84033 (18121521)	37.66557 (16021119)
3861550.1	45.77498 (16122308)	43.44300 (16011801)	40.61748 (16122719)	39.20644 (16021119)	37.60029 (16021119)
3861524.9	45.02041 (20120819)	43.61986 (16011801)	40.67510 (18121521)	39.69466 (16021119)	37.26543 (16021119)
3861499.8	45.47838 (16011801)	43.56026 (16011801)	41.19844 (18121521)	39.87221 (16021119)	37.60808 (18011122)
3861474.6	46.12104 (16011801)	43.27433 (16122719)	41.55665 (16021119)	39.73532 (16021119)	37.74520 (15020221)

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 3861449.5 |     46.65932 (16011801)     43.23920 (16122719)     42.00635 (16021119)
    39.55830 (18011122)     37.84037 (19120601)
 3861424.4 |     46.58519 (16011801)     43.88941 (20022720)     42.18522 (16021119)
    39.26273 (15020221)     37.98159 (19120601)
 3861399.2 |     46.30727 (16011801)     44.20929 (18011122)     42.04497 (16021119)
    39.83692 (15020221)     38.61148 (18022523)
 3861374.1 |     46.82746 (18011122)     44.66262 (16021119)     41.67381 (16021119)
    40.83844 (18022523)     39.48594 (18022523)
 3861348.9 |     46.92821 (18011122)     44.88699 (16021119)     42.95633 (18022523)
    41.68498 (18022523)     40.39177 (18011522)
 3861323.8 |     47.03888 (16021119)     45.49149 (18022523)     44.13689 (18022523)
    42.57988 (18011522)     40.61773 (18120921)
 3861298.7 |     48.54418 (18022523)     47.30458 (18022523)     45.14503 (18011522)
    43.38191 (18120921)     41.25015 (18120921)
 3861273.5 |     50.30844 (18022523)     48.38267 (18011522)     45.72942 (18120921)
    43.74235 (20120318)     42.43176 (20120318)
 3861248.4 |     51.85052 (18011522)     49.54316 (18120921)     46.52713 (20120318)
    44.78426 (18120708)     44.48597 (18120708)
 3861223.2 |     52.91255 (18120921)     51.08139 (20120318)     48.30474 (18120708)
    47.26975 (18120708)     45.73734 (18120708)
 3861198.1 |     54.76447 (20120318)     53.39330 (18120708)     50.70650 (18120708)
    48.14038 (18120708)     45.47159 (18120708)
 3861173.0 |     57.97549 (18120708)     55.20463 (18120708)     51.23095 (18120708)
    47.44717 (18120708)     44.24672 (19010319)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 627
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                **

  Y-COORD  |                                                X-COORD (METERS)
```

```
  (METERS) |       490876.50
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |     35.30168 (16021119)
 3861650.6 |     35.79313 (16021119)
 3861625.5 |     35.65572 (16021119)
 3861600.3 |     35.28386 (16021119)
 3861575.2 |     35.02743 (15020221)
 3861550.1 |     35.42216 (15020221)
 3861524.9 |     35.70731 (19120601)
 3861499.8 |     35.92632 (19120601)
 3861474.6 |     35.93458 (19120601)
 3861449.5 |     35.64035 (16021120)
 3861424.4 |     36.65040 (18022523)
 3861399.2 |     37.46025 (18022523)
 3861374.1 |     38.22872 (18011522)
 3861348.9 |     38.47668 (18120921)
 3861323.8 |     38.86811 (18120921)
 3861298.7 |     39.79850 (20120318)
 3861273.5 |     41.23454 (18120708)
 3861248.4 |     42.69690 (18120708)
 3861223.2 |     42.98319 (18120708)
 3861198.1 |     42.04237 (18120708)
 3861173.0 |     41.92761 (19010319)
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                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                   *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

Y-COORD (METERS)	X-COORD (METERS)				
	491611.20	491641.99	491672.78	491703.57	491734.36
3861693.5	26.84059 (16010507)	26.85509 (16010507)	26.93307 (18020819)	26.91523 (18020819)	26.91046 (18020819)
3861664.1	27.24928 (16010507)	27.33903 (18020819)	27.37988 (18020819)	27.42378 (18020819)	27.35449 (18020819)
3861634.6	27.92159 (18020819)	27.98982 (18020819)	27.94414 (18020819)	27.85431 (18020819)	27.63261 (18020819)
3861605.2	28.53085 (18020819)	28.52238 (18020819)	28.32293 (18020819)	28.03642 (18020819)	27.68416 (18020819)
3861575.7	29.01725 (18020819)	28.80850 (18020819)	28.42077 (18020819)	27.96233 (18020819)	27.32865 (18020819)
3861546.3	29.22214 (18020819)	28.83484 (18020819)	28.20574 (18020819)	27.50523 (18020819)	27.09981 (20022720)
3861516.8	29.13430 (18020819)	28.48960 (18020819)	27.76145 (20120718)	27.62257 (20022720)	27.49358 (20022720)
3861487.4	28.64468 (18020819)	28.28185 (20022720)	28.20269 (20022720)	28.00035 (20022720)	27.73784 (15011619)
3861457.9	28.83205 (20022720)	28.67934 (20022720)	28.44663 (20022720)	28.19400 (15011619)	27.85106 (15011619)
3861428.5	29.25404 (20022720)	28.94684 (15011619)	28.64688 (15011619)	28.21731 (15011619)	27.83224 (18011122)
3861399.0	29.50757 (15011619)	29.03263 (15011619)	28.59320 (18011122)	28.27401 (18011122)	27.91523 (18011122)
3861369.6	29.39504 (15011619)	29.05304 (18011122)	28.69934 (18011122)	28.19264 (18011122)	27.61798 (18011122)
3861340.1	29.49540 (18011122)	29.01395 (18011122)	28.42995 (18011122)	27.74870 (18011122)	26.97733 (18011122)
3861310.7	29.28655 (18011122)	28.56122 (18011122)	27.76680 (18011122)	27.04032 (18020124)	26.47127 (18020124)
3861281.2	28.68316 (18011122)	27.84750 (18020124)	27.23098 (18020124)	26.75169 (19020204)	26.35250 (19020204)
3861251.8	28.11693 (18020124)	27.53745 (19020204)	27.09212 (19020204)	26.63265 (16041804)	26.24381 (16041804)
3861222.3	27.95736 (19020204)	27.41152 (16041804)	26.99951 (16041804)	26.95719 (18022523)	26.94433 (18022523)
3861192.9	27.82629 (16041804)	27.79977 (18022523)	27.80887 (18022523)	27.72980 (18022523)	27.53433 (18022523)
3861163.4	28.64539 (18022523)	28.58180 (18022523)	28.50418 (18022523)	28.24300 (18022523)	27.85841 (18022523)
3861134.0	29.24179 (20120308)	29.14390 (20120308)	28.94961 (20120308)	28.66521 (20120308)	28.32339 (20120308)
3861104.5	30.88287 (20120308)	30.62623 (20120308)	30.30668 (20120308)	29.95889 (20120308)	29.58493 (20120308)

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
INCLUDING SOURCE(S):   L0000317   , L0000318 , L0000319   , L0000320   , L0000321   ,
L0000322   , L0000323   , L0000324   , L0000325   , L0000326 , L0000327   , L0000328   , L0000329   ,
L0000330   , L0000331   , L0000332   , L0000333   , L0000334 , L0000335   , L0000336   , L0000337   ,
L0000338   , L0000339   , L0000340   , L0000341   , L0000342 , L0000343   , L0000344   , . . .   ,

*** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	491765.15	491795.94	491826.73	491857.52	491888.31
3861693.5	26.83010 (18020819)	26.73905 (18020819)	26.57855 (18020819)	26.31868 (18020819)	25.86390 (18020819)
3861664.1	27.18963 (18020819)	26.92328 (18020819)	26.52805 (18020819)	26.00560 (18020819)	25.45185 (18020819)
3861634.6	27.22524 (18020819)	26.88310 (18020819)	26.28161 (18020819)	25.55720 (20120718)	25.40444 (20022720)
3861605.2	27.11100 (18020819)	26.49993 (18020819)	26.03236 (20022720)	25.92783 (20022720)	25.79542 (20022720)
3861575.7	26.63034 (20120718)	26.52811 (20022720)	26.39216 (20022720)	26.19922 (20022720)	26.01426 (15011619)
3861546.3	27.00928 (20022720)	26.90577 (20022720)	26.66613 (20022720)	26.45438 (15011619)	26.15523 (15011619)
3861516.8	27.27227 (20022720)	27.03504 (15011619)	26.77617 (15011619)	26.40846 (15011619)	26.11470 (18011122)
3861487.4	27.44552 (15011619)	27.08969 (15011619)	26.65043 (18011122)	26.41332 (18011122)	26.14728 (18011122)
3861457.9	27.38761 (15011619)	27.08136 (18011122)	26.79883 (18011122)	26.41019 (18011122)	25.94184 (18011122)
3861428.5	27.53153 (18011122)	27.14396 (18011122)	26.67092 (18011122)	26.09185 (18011122)	25.43647 (18011122)
3861399.0	27.43798 (18011122)	26.84744 (18011122)	26.17473 (18011122)		

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    25.44920 (18011122)     24.93617 (18020124)
 3861369.6 |     26.97807 (18011122)     26.20475 (18011122)     25.62502 (18020124)
    25.09247 (18020124)     24.73172 (19020204)
 3861340.1 |     26.32652 (18020124)     25.77587 (18020124)     25.40159 (19020204)
    24.98830 (19020204)     24.65394 (16041804)
 3861310.7 |     26.03387 (19020204)     25.65220 (19020204)     25.24833 (16041804)
    24.89831 (16041804)     24.89519 (18022523)
 3861281.2 |     25.89809 (16041804)     25.55252 (16041804)     25.50001 (18022523)
    25.51655 (18022523)     25.46386 (18022523)
 3861251.8 |     26.19299 (18022523)     26.18367 (18022523)     26.14943 (18022523)
    26.03781 (18022523)     25.84802 (18022523)
 3861222.3 |     26.85095 (18022523)     26.72629 (18022523)     26.56757 (18022523)
    26.34819 (18022523)     26.02010 (18022523)
 3861192.9 |     27.30229 (18022523)     27.00633 (18022523)     26.72238 (18022523)
    26.44585 (18011522)     26.24225 (18011522)
 3861163.4 |     27.43432 (18022523)     27.18058 (18011522)     26.92396 (18011522)
    26.66171 (18011522)     26.31937 (18011522)
 3861134.0 |     28.01063 (20120308)     27.86330 (20120308)     27.49664 (20120308)
    27.26609 (20120308)     26.98291 (20120308)
 3861104.5 |     29.18665 (20120308)     28.76565 (20120308)     28.43668 (20120308)
    28.13974 (20120308)     27.81908 (20120308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 630
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                   INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                    *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       491919.10               491949.89               491980.68
      492011.47               492042.26
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 3861693.5 | 25.13332 (18020819)   24.56025 (18020819)   24.42823 (20022720)
    24.33454 (20022720)   24.20002 (20022720)
 3861664.1 | 24.98041 (20022720)   24.90365 (20022720)   24.84710 (20022720)
    24.70105 (20022720)   24.48415 (20022720)
 3861634.6 | 25.32526 (20022720)   25.21827 (20022720)   25.03659 (20022720)
    24.85093 (15011619)   24.60709 (15011619)
 3861605.2 | 25.60801 (20022720)   25.40022 (15011619)   25.14875 (15011619)
    24.82771 (15011619)   24.53404 (18011122)
 3861575.7 | 25.75445 (15011619)   25.44417 (15011619)   25.10361 (15011619)
    24.85984 (18011122)   24.68278 (18011122)
 3861546.3 | 25.77703 (15011619)   25.48488 (18011122)   25.22880 (18011122)
    24.99256 (18011122)   24.57944 (18011122)
 3861516.8 | 25.86637 (18011122)   25.52401 (18011122)   25.11147 (18011122)
    24.75932 (18011122)   24.22971 (18011122)
 3861487.4 | 25.78027 (18011122)   25.33757 (18011122)   24.77842 (18011122)
    24.19511 (18011122)   23.67874 (18020124)
 3861457.9 | 25.41934 (18011122)   24.80108 (18011122)   24.17997 (18020124)
    23.76642 (18020124)   23.38437 (18020124)
 3861428.5 | 24.75473 (18011122)   24.32618 (18020124)   23.84822 (18020124)
    23.53538 (19020204)   23.31464 (19020204)
 3861399.0 | 24.44360 (18020124)   24.11837 (19020204)   23.78101 (19020204)
    23.43786 (16041804)   23.22811 (16041804)
 3861369.6 | 24.33583 (19020204)   24.02937 (16041804)   23.71071 (16041804)
    23.68162 (18022523)   23.73712 (18022523)
 3861340.1 | 24.25806 (16041804)   24.25865 (18022523)   24.25148 (18022523)
    24.20736 (18022523)   24.18850 (18022523)
 3861310.7 | 24.84207 (18022523)   24.79460 (18022523)   24.72611 (18022523)
    24.61157 (18022523)   24.49335 (18022523)
 3861281.2 | 25.36342 (18022523)   25.21333 (18022523)   25.01248 (18022523)
    24.82743 (18022523)   24.50169 (18022523)
 3861251.8 | 25.65109 (18022523)   25.39817 (18022523)   25.08991 (18022523)
    24.93120 (18011522)   24.66228 (18011522)
 3861222.3 | 25.72615 (18011522)   25.54683 (18011522)   25.29702 (18011522)
    25.00075 (18011522)   24.63728 (18011522)
 3861192.9 | 25.96314 (18011522)   25.65722 (18011522)   25.27896 (18011522)
    24.85417 (18011522)   24.50157 (18120921)
 3861163.4 | 25.90038 (18011522)   25.49162 (18120921)   25.17486 (18120921)
    24.96571 (20120308)   24.70780 (20120308)
 3861134.0 | 26.77835 (20120308)   26.52275 (20120308)   26.24376 (20120308)
    25.99162 (20120308)   25.74135 (20120308)
 3861104.5 | 27.50305 (20120308)   27.19177 (20120308)   26.88532 (20120308)
    26.60899 (20120308)   26.33670 (20120308)

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                  *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       492073.05               492103.84               492134.63
      492165.42               492196.21
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3861693.5 |     23.94211 (20022720)     23.69768 (20022720)     23.46639 (15011619)
    23.18584 (15011619)     22.86816 (18011122)
 3861664.1 |     24.00969 (15011619)     23.71872 (15011619)     23.40655 (15011619)
    23.20531 (18011122)     22.98470 (18011122)
 3861634.6 |     24.21392 (15011619)     23.76255 (18011122)     23.48869 (18011122)
    23.14323 (18011122)     22.93597 (18011122)
 3861605.2 |     24.28228 (18011122)     23.99401 (18011122)     23.56773 (18011122)
    23.04953 (18011122)     22.65115 (18011122)
 3861575.7 |     24.43944 (18011122)     23.88478 (18011122)     23.47579 (18011122)
    22.79500 (18011122)     22.16349 (18011122)
 3861546.3 |     24.04017 (18011122)     23.50318 (18011122)     22.94738 (18011122)
    22.42782 (18020124)     22.02600 (18020124)
 3861516.8 |     23.51568 (18011122)     22.99707 (18020124)     22.58447 (18020124)
    22.29143 (18120708)     22.01549 (18120708)
 3861487.4 |     23.15065 (18020124)     22.71912 (18120708)     22.44336 (18120708)
    22.18808 (18120708)     21.91529 (18120708)
 3861457.9 |     22.96035 (19020204)     22.64797 (19020204)     22.36284 (16041804)
    22.11840 (18022523)     22.12471 (18022523)
 3861428.5 |     22.91429 (16041804)     22.62179 (16041804)     22.60665 (18022523)
    22.61393 (18022523)     22.57412 (18022523)
 3861399.0 |     23.15899 (18022523)     23.12820 (18022523)     23.08788 (18022523)
    23.03482 (18022523)     22.92668 (18022523)
 3861369.6 |     23.61059 (18022523)     23.53308 (18022523)     23.45854 (18022523)
    23.30289 (18022523)     23.12677 (18022523)
 3861340.1 |     24.01957 (18022523)     23.85090 (18022523)     23.63852 (18022523)
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
                                   INCLUDING SOURCE(S):   L0000317   , L0000318 , L0000319   , L0000320   , L0000321   ,
                L0000322   , L0000323   , L0000324   , L0000325   , L0000326 , L0000327   , L0000328   , L0000329   ,
                L0000330   , L0000331   , L0000332   , L0000333   , L0000334 , L0000335   , L0000336   , L0000337   ,
                L0000338   , L0000339   , L0000340   , L0000341   , L0000342 , L0000343   , L0000344   , . . .   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                               ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        488802.97   3861310.09   83.16879 (19122021)   488863.58   3861309.29   87.74036 (20112808)
        488847.63   3861279.78   87.64116 (19122021)   488850.82

3861262.24 88.26381 (19122021)
488810.14 3861261.44 86.30584 (15020507) 488810.94
3861289.36 83.75507 (15010318)
488819.72 3861306.90 84.05036 (19122021) 488816.53
3861235.92 95.40884 (16102717)
488841.25 3861126.66 135.23073 (16012108) 488879.53
3861121.88 139.49399 (15012820)
488913.82 3861121.08 143.00593 (16102717) 488925.79
3861092.37 156.50701 (15012820)
488920.03 3861067.49 174.59920 (16012108) 488996.74
3861113.92 143.27732 (16102717)
488974.03 3861097.77 161.50581 (16102717) 488931.63
3860976.64 200.14891 (16020308)
488935.67 3861034.68 176.49930 (15120818) 488959.90
3861061.43 184.66712 (16012108)
489165.81 3861208.80 118.00077 (19120419) 489317.74
3861109.28 148.70807 (18020417)
489385.87 3861014.75 188.29111 (18122219) 489372.24
3861112.69 165.44031 (16012904)
489420.79 3861106.73 186.01180 (16121423) 489436.12
3861037.74 204.20036 (16012904)
489488.07 3861036.89 248.15067 (16020222) 489473.59
3861110.99 210.29802 (18010720)
489431.01 3861167.20 178.29059 (16020222) 489662.66
3860915.95 321.29175 (20120308)
489644.78 3861076.07 191.59004 (16020722) 489659.26
3861099.06 172.06051 (15010520)
489735.91 3861020.71 135.29995 (20022720) 489700.14
3861029.23 149.02522 (18120822)
489708.65 3861062.44 143.76792 (18120822) 489779.34
3861099.06 113.46012 (19010320)
489835.95 3859138.59 97.03738 (20030523) 489885.95
3859138.59 96.13486 (20030523)
489935.95 3859138.59 94.04799 (15112019) 489985.95
3859138.59 91.72504 (16010405)
490035.95 3859138.59 90.18957 (16010405) 490085.95
3859138.59 82.24608 (16122521)
490135.95 3859138.59 79.77821 (20011520) 490185.95
3859138.59 84.87150 (15121808)
490235.95 3859138.59 82.69529 (15121808) 490285.95
3859138.59 71.55560 (15121808)
490335.95 3859138.59 58.87507 (20121324) 490385.95
3859138.59 55.19968 (20121324)
490435.95 3859138.59 52.60573 (20121324) 490485.95
3859138.59 45.87495 (20121324)
490535.95 3859138.59 36.19423 (20121324) 490585.95
3859138.59 27.84927 (15013024)
490635.95 3859138.59 27.70108 (19122909) 490685.95
3859138.59 27.87937 (19122909)
490735.95 3859138.59 27.24502 (19122909) 490785.95

3859138.59   25.73325 (19122909)
        490835.95   3859138.59   23.41050 (19122909)   490885.95
3859138.59   20.46499 (19122909)
        489835.95   3859188.59   101.59119 (20030523)   489885.95
3859188.59   99.57397 (15112019)
        489935.95   3859188.59   94.27577 (15112019)   489985.95
3859188.59   96.00116 (16010405)
        490035.95   3859188.59   90.97373 (16010405)   490085.95
3859188.59   86.60258 (16122521)
        490135.95   3859188.59   86.32082 (15121808)   490185.95
3859188.59   88.02425 (15121808)
        490235.95   3859188.59   80.23021 (15121808)   490285.95
3859188.59   67.61113 (15121808)
        490335.95   3859188.59   63.06205 (20121324)   490385.95
3859188.59   59.70720 (20121324)
        490435.95   3859188.59   53.03671 (20121324)   490485.95
3859188.59   42.83510 (20121324)
        490535.95   3859188.59   33.76039 (20121324)   490585.95
3859188.59   30.08164 (15013024)
        490635.95   3859188.59   28.18200 (19122909)   490685.95
3859188.59   27.75138 (19122909)
        490735.95   3859188.59   26.42826 (19122909)   490785.95
3859188.59   24.22930 (19122909)
        490835.95   3859188.59   21.33945 (19122909)   490885.95
3859188.59   18.00202 (19122909)
        489835.95   3859238.59   105.97516 (20030523)   489885.95
3859238.59   103.36513 (15112019)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
                                    INCLUDING SOURCE(S):   L0000317   , L0000318 , L0000319   , L0000320   , L0000321   ,
                L0000322   , L0000323   , L0000324   , L0000325   , L0000326 , L0000327   , L0000328   , L0000329   ,
                L0000330   , L0000331   , L0000332   , L0000333   , L0000334 , L0000335   , L0000336   , L0000337   ,
                L0000338   , L0000339   , L0000340   , L0000341   , L0000342 , L0000343   , L0000344   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                            ** CONC OF PM_10   IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
489935.95	3859238.59	96.47417	(16010405)	489985.95	3859238.59	98.61697	(16010405)
490035.95	3859238.59	89.35977	(16010405)	490085.95	3859238.59	87.25233	(16122521)
490135.95	3859238.59	92.77099	(15121808)	490185.95	3859238.59	91.09317	(15121808)
490235.95	3859238.59	79.98821	(15121808)	490285.95	3859238.59	66.55413	(20121324)
490335.95	3859238.59	64.93570	(20121324)	490385.95	3859238.59	60.77811	(20121324)
490435.95	3859238.59	53.79294	(20121324)	490485.95	3859238.59	44.67083	(20121324)
490535.95	3859238.59	37.44934	(15013024)	490585.95	3859238.59	32.36323	(15013024)
490635.95	3859238.59	28.25252	(19122909)	490685.95	3859238.59	27.13754	(19122909)
490735.95	3859238.59	25.08900	(19122909)	490785.95	3859238.59	22.25044	(19122909)
490835.95	3859238.59	18.89429	(19122909)	490885.95	3859238.59	15.34014	(19122909)
489835.95	3859288.59	109.53418	(19022322)	489885.95	3859288.59	106.02253	(15112019)
489935.95	3859288.59	102.48838	(16010405)	489985.95	3859288.59	99.88268	(16010405)
490035.95	3859288.59	92.67945	(16122521)	490085.95	3859288.59	92.98860	(15121808)
490135.95	3859288.59	96.42037	(15121808)	490185.95	3859288.59	90.63461	(15121808)
490235.95	3859288.59	77.46348	(15121808)	490285.95	3859288.59	71.66685	(20121324)
490335.95	3859288.59	67.84711	(20121324)	490385.95	3859288.59	60.98513	(20121324)
490435.95	3859288.59	50.89182	(20121324)	490485.95	3859288.59	45.62109	(15013024)
490535.95	3859288.59	46.29456	(15013024)	490585.95	3859288.59	38.46197	(15013024)
490635.95	3859288.59	33.92085	(15013024)	490685.95	3859288.59	31.02849	(16010120)
490735.95	3859288.59	25.70974	(19111222)	490785.95	3859288.59	24.15081	(19111222)
490835.95	3859288.59	21.53720	(19111222)	490885.95	3859288.59	17.59930	(15031607)
489835.95	3859338.59	111.61305	(19022322)	489885.95	3859338.59	107.00546	(15112019)

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        489935.95   3859338.59      107.62888  (16010405)                489985.95
3859338.59      100.71782  (16010405)
        490035.95   3859338.59       94.94970  (16122521)                490085.95
3859338.59       99.72665  (15121808)
        490135.95   3859338.59       98.43910  (15121808)                490185.95
3859338.59       89.07133  (15121808)
        490235.95   3859338.59       75.31286  (20121324)                490285.95
3859338.59       75.40320  (20121324)
        490335.95   3859338.59       69.96626  (20121324)                490385.95
3859338.59       62.60907  (20121324)
        490435.95   3859338.59       55.15325  (15013024)                490485.95
3859338.59       52.46209  (15013024)
        490535.95   3859338.59       49.71895  (15013024)                490585.95
3859338.59       44.16202  (15013024)
        490635.95   3859338.59       41.06448  (16010120)                490685.95
3859338.59       35.93281  (16010120)
        490735.95   3859338.59       32.13529  (19111222)                490785.95
3859338.59       28.48533  (19111222)
        490835.95   3859338.59       25.84430  (19111222)                490885.95
3859338.59       24.04193  (18050322)
        489835.95   3859388.59      115.84205  (15112019)                489885.95
3859388.59      107.80708  (16010405)
        489935.95   3859388.59      110.52362  (16010405)                489985.95
3859388.59      101.31382  (16122521)
        490035.95   3859388.59      100.25214  (15121808)                490085.95
3859388.59      103.35225  (15121808)
        490135.95   3859388.59       97.97560  (15121808)                490185.95
3859388.59       86.25254  (15121808)
        490235.95   3859388.59       79.48451  (20121324)                490285.95
3859388.59       77.56084  (20121324)
        490335.95   3859388.59       71.45145  (20121324)                490385.95
3859388.59       63.91513  (15013024)
        490435.95   3859388.59       62.85496  (15013024)                490485.95
3859388.59       60.05106  (15013024)
        490535.95   3859388.59       54.75244  (15013024)                490585.95
3859388.59       49.99251  (16010120)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 635
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                   INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
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                L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        490635.95   3859388.59       46.53191  (16010120)               490685.95
3859388.59       40.13880  (19111222)
        490735.95   3859388.59       32.88625  (19111222)               490785.95
3859388.59       30.08459  (19111222)
        490835.95   3859388.59       31.80394  (19120108)               490885.95
3859388.59       30.11042  (19120108)
        489835.95   3859438.59      117.00358  (15112019)               489885.95
3859438.59      114.03803  (16010405)
        489935.95   3859438.59      110.14919  (16010405)               489985.95
3859438.59      102.63607  (16122521)
        490035.95   3859438.59      106.33578  (15121808)               490085.95
3859438.59      103.76696  (15121808)
        490135.95   3859438.59       93.88323  (15121808)               490185.95
3859438.59       81.11656  (20121324)
        490235.95   3859438.59       81.59588  (20121324)               490285.95
3859438.59       77.48897  (20121324)
        490335.95   3859438.59       70.21414  (20121324)               490385.95
3859438.59       69.33717  (15013024)
        490435.95   3859438.59       66.98288  (15013024)               490485.95
3859438.59       62.29629  (15013024)
        490535.95   3859438.59       57.70500  (16010120)               490585.95
3859438.59       54.91155  (16010120)
        490635.95   3859438.59       50.53821  (19111222)               490685.95
3859438.59       46.08201  (19111222)
        490735.95   3859438.59       41.15659  (19120108)               490785.95
3859438.59       38.03694  (19120108)
        490835.95   3859438.59       35.80239  (19120108)               490885.95
3859438.59       32.90921  (19120108)
        490085.95   3859488.59      101.59020  (15121808)               490135.95
3859488.59       88.90716  (15121808)
        490185.95   3859488.59       81.88724  (20121324)               490235.95
3859488.59       79.96795  (20121324)
        490285.95   3859488.59       75.79553  (20121324)               490335.95
3859488.59       74.22844  (15013024)
        490385.95   3859488.59       72.29614  (15013024)               490435.95
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3859488.59       68.77163  (15013024)
        490485.95   3859488.59       63.82424  (16010120)                490535.95
3859488.59       61.54784  (16010120)
        490585.95   3859488.59       56.67062  (19111222)                490635.95
3859488.59       53.92139  (19111222)
        490685.95   3859488.59       49.01895  (19111222)                490735.95
3859488.59       44.84053  (19120108)
        490785.95   3859488.59       41.14245  (20022004)                490835.95
3859488.59       38.84117  (20120808)
        490885.95   3859488.59       35.04850  (19120107)                490085.95
3859538.59       97.68906  (15121808)
        490135.95   3859538.59       83.71360  (20121324)                490185.95
3859538.59       81.22527  (20121324)
        490235.95   3859538.59       77.49923  (15020404)                490285.95
3859538.59       75.64561  (15013024)
        490335.95   3859538.59       75.03381  (15013024)                490385.95
3859538.59       73.39046  (15013024)
        490435.95   3859538.59       68.42878  (16010120)                490485.95
3859538.59       66.56634  (16010120)
        490535.95   3859538.59       62.64780  (16010120)                490585.95
3859538.59       59.35805  (19111222)
        490635.95   3859538.59       54.76047  (19111222)                490685.95
3859538.59       52.28926  (20022004)
        490735.95   3859538.59       48.70988  (20120808)                490785.95
3859538.59       45.41090  (20120808)
        490835.95   3859538.59       41.39536  (16010208)                490885.95
3859538.59       38.20346  (16010208)
        490135.95   3859588.59       82.97914  (20121324)                490185.95
3859588.59       80.61425  (15020404)
        490235.95   3859588.59       78.29149  (15020404)                490285.95
3859588.59       75.79505  (15013024)
        490335.95   3859588.59       73.51703  (15013024)                490385.95
3859588.59       69.39044  (16010120)
        490435.95   3859588.59       68.42777  (16010120)                490485.95
3859588.59       66.97769  (16010120)
        490535.95   3859588.59       63.17874  (19111222)                490585.95
3859588.59       59.27714  (19111222)
        490635.95   3859588.59       57.79501  (20022004)                490685.95
3859588.59       55.64627  (20120808)
        490735.95   3859588.59       51.83106  (20120808)                490785.95
3859588.59       46.59096  (19120107)
        490835.95   3859588.59       43.70494  (19120107)                490885.95
3859588.59       39.99196  (18101920)
        490135.95   3859638.59       86.43767  (20121324)                490185.95
3859638.59       80.89765  (15020404)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 ,
L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 ,
L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 ,
L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490235.95	3859638.59	78.13521	(15020404)	490285.95	3859638.59	74.30377	(15013024)
490335.95	3859638.59	71.21721	(15013024)	490385.95	3859638.59	69.39450	(16010120)
490435.95	3859638.59	66.64996	(16010120)	490485.95	3859638.59	62.88123	(19111222)
490535.95	3859638.59	62.24870	(20022004)	490585.95	3859638.59	62.62337	(20022004)
490635.95	3859638.59	60.98519	(20120808)	490685.95	3859638.59	57.72002	(20120808)
490735.95	3859638.59	52.24411	(19120107)	490785.95	3859638.59	48.83383	(19120107)
490835.95	3859638.59	44.64353	(19122324)	490885.95	3859638.59	43.72527	(18011822)
490135.95	3859688.59	84.89720	(15020404)	490185.95	3859688.59	81.99183	(15020404)
490235.95	3859688.59	77.91753	(15013024)	490285.95	3859688.59	75.49908	(15013024)
490335.95	3859688.59	71.50593	(16010120)	490385.95	3859688.59	68.37307	(16010120)
490435.95	3859688.59	64.90967	(16010120)	490485.95	3859688.59	63.06174	(20022004)
490535.95	3859688.59	63.59263	(20022004)	490585.95	3859688.59	64.35057	(20120808)
490635.95	3859688.59	62.59090	(20120808)	490685.95	3859688.59	57.18349	(19120107)

490735.95 3859688.59 53.56378 (19120107) 490785.95
3859688.59 49.09394 (19122324)
490835.95 3859688.59 46.35491 (19122324) 490885.95
3859688.59 45.19412 (19011921)
490085.95 3859738.59 89.27762 (15020404) 490135.95
3859738.59 86.42085 (15020404)
490185.95 3859738.59 83.00505 (15020404) 490235.95
3859738.59 78.54817 (15013024)
490285.95 3859738.59 73.95058 (16010120) 490335.95
3859738.59 71.93935 (16010120)
490385.95 3859738.59 67.84986 (16010120) 490435.95
3859738.59 65.05278 (15020520)
490485.95 3859738.59 65.78815 (20120808) 490535.95
3859738.59 66.04985 (20120808)
490585.95 3859738.59 64.36885 (20120808) 490635.95
3859738.59 61.17145 (19120107)
490685.95 3859738.59 58.03693 (19120107) 490735.95
3859738.59 54.21715 (19122324)
490785.95 3859738.59 51.26267 (19122324) 490835.95
3859738.59 48.64965 (18011120)
490885.95 3859738.59 50.18970 (18011120) 490085.95
3859788.59 91.06832 (15020404)
490135.95 3859788.59 87.53149 (15020404) 490185.95
3859788.59 83.14847 (15013024)
490235.95 3859788.59 78.52122 (15013024) 490285.95
3859788.59 74.33390 (16010120)
490335.95 3859788.59 70.54765 (15020520) 490385.95
3859788.59 67.76867 (15020520)
490435.95 3859788.59 69.49259 (20120808) 490485.95
3859788.59 69.32612 (20120808)
490535.95 3859788.59 67.27315 (20120808) 490585.95
3859788.59 62.77383 (20120808)
490635.95 3859788.59 59.66829 (19120107) 490685.95
3859788.59 57.58738 (19122324)
490735.95 3859788.59 54.69493 (19122324) 490785.95
3859788.59 52.71347 (18011120)
490835.95 3859788.59 54.01861 (18011120) 490885.95
3859788.59 53.66569 (18011120)
490085.95 3859838.59 92.37195 (15020404) 490135.95
3859838.59 88.08884 (15020404)
490185.95 3859838.59 83.79241 (15013024) 490235.95
3859838.59 79.76527 (16010120)
490285.95 3859838.59 74.49521 (16010120) 490335.95
3859838.59 71.10508 (15020520)
490385.95 3859838.59 71.69192 (20120808) 490435.95
3859838.59 71.49814 (20120808)
490485.95 3859838.59 69.95149 (20120808) 490535.95
3859838.59 65.44453 (20120808)
490585.95 3859838.59 62.04202 (19120107) 490635.95
3859838.59 59.37336 (19122324)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 ,
L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 ,
L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 ,
L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490885.95	3859838.59	55.32189	(18011120)	490085.95	3859888.59	94.09747	(15020404)
490135.95	3859888.59	89.30498	(15013024)	490185.95	3859888.59	84.18447	(16010120)
490235.95	3859888.59	79.30728	(16010120)	490285.95	3859888.59	75.00112	(15020520)
490335.95	3859888.59	75.14183	(20120808)	490385.95	3859888.59	74.39438	(20120808)
490435.95	3859888.59	71.39907	(20120808)	490485.95	3859888.59	65.75821	(20120808)
490535.95	3859888.59	62.97151	(19120107)	490585.95	3859888.59	61.91304	(19122324)
490635.95	3859888.59	58.13686	(19122324)	490685.95	3859888.59	54.91001	(18011120)
490735.95	3859888.59	56.07797	(18011120)	490785.95	3859888.59	55.78463	(18011120)
490835.95	3859888.59	54.32812	(18011120)	490885.95			

3859888.59 55.22701 (16120720)
490135.95 3859938.59 88.59188 (16010120) 490185.95
3859938.59 84.08219 (16010120)
490235.95 3859938.59 79.06595 (15020520) 490285.95
3859938.59 78.96809 (20120808)
490335.95 3859938.59 77.96567 (20120808) 490385.95
3859938.59 74.50646 (20120808)
490435.95 3859938.59 67.94921 (19120107) 490485.95
3859938.59 64.03079 (19122324)
490535.95 3859938.59 62.20988 (19122324) 490585.95
3859938.59 58.86756 (19122324)
490635.95 3859938.59 57.89874 (18011120) 490685.95
3859938.59 58.65875 (18011120)
490735.95 3859938.59 58.49258 (18011120) 490785.95
3859938.59 56.83921 (19020802)
490835.95 3859938.59 57.21209 (19120108) 490885.95
3859938.59 59.62543 (19120108)
490135.95 3859988.59 89.55119 (16010120) 490185.95
3859988.59 83.67001 (15020520)
490235.95 3859988.59 83.55171 (20120808) 490285.95
3859988.59 82.75236 (20120808)
490335.95 3859988.59 78.93225 (20120808) 490385.95
3859988.59 71.35645 (19120107)
490435.95 3859988.59 66.91312 (19122324) 490485.95
3859988.59 63.16398 (19122324)
490535.95 3859988.59 59.25303 (19013107) 490585.95
3859988.59 58.46909 (18011120)
490635.95 3859988.59 58.99791 (19020802) 490685.95
3859988.59 60.37846 (19020802)
490735.95 3859988.59 59.33581 (16120720) 490785.95
3859988.59 62.03119 (19120108)
490835.95 3859988.59 64.21894 (19120108) 490885.95
3859988.59 63.65453 (19120108)
490135.95 3860038.59 92.70676 (20010317) 490185.95
3860038.59 88.08171 (20120808)
490235.95 3860038.59 87.06922 (20120808) 490285.95
3860038.59 82.77550 (20120808)
490335.95 3860038.59 75.72416 (19120107) 490385.95
3860038.59 70.61359 (19122324)
490435.95 3860038.59 65.75936 (16020401) 490485.95
3860038.59 62.87055 (16020401)
490535.95 3860038.59 60.74227 (20122021) 490585.95
3860038.59 60.23987 (19020802)
490635.95 3860038.59 60.98415 (19120108) 490685.95
3860038.59 62.92430 (19120108)
490735.95 3860038.59 66.27501 (19120108) 490785.95
3860038.59 67.10278 (19120108)
490835.95 3860038.59 65.85217 (19120108) 490885.95
3860038.59 61.24202 (19120108)
490135.95 3860088.59 97.42752 (20122021) 490185.95

3860088.59   92.62565 (20120808)
        490235.95   3860088.59   88.08127 (20120808)   490285.95
3860088.59   81.46860 (20122021)
        490335.95   3860088.59   76.33322 (20122021)   490385.95
3860088.59   71.67403 (20122021)
        490435.95   3860088.59   67.41321 (20122021)   490485.95
3860088.59   64.01203 (19020802)
        490535.95   3860088.59   63.79351 (19120108)   490585.95
3860088.59   65.60656 (19120108)
        490635.95   3860088.59   66.41500 (19120108)   490685.95
3860088.59   66.15974 (19120108)
        490735.95   3860088.59   65.65859 (19120108)   490785.95
3860088.59   64.58180 (19120108)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
                                  INCLUDING SOURCE(S):   L0000317   , L0000318 , L0000319   , L0000320   , L0000321   ,
                L0000322   , L0000323   , L0000324   , L0000325   , L0000326 , L0000327   , L0000328   , L0000329   ,
                L0000330   , L0000331   , L0000332   , L0000333   , L0000334 , L0000335   , L0000336   , L0000337   ,
                L0000338   , L0000339   , L0000340   , L0000341   , L0000342 , L0000343   , L0000344   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
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        490435.95   3860138.59       69.59604  (15021823)                490485.95
3860138.59       69.17162  (19120108)
        490535.95   3860138.59       70.41044  (19120108)                490585.95
3860138.59       70.41334  (19120108)
        490635.95   3860138.59       68.25325  (19120108)                490685.95
3860138.59       65.05403  (19120708)
        490735.95   3860138.59       62.40433  (19120708)                490785.95
3860138.59       59.34518  (19120708)
        490835.95   3860138.59       55.24054  (16010208)                490885.95
3860138.59       53.60552  (16010208)
        490935.95   3860138.59       51.97560  (16010208)                490985.95
3860138.59       49.65737  (16010208)
        491035.95   3860138.59       46.67524  (16010208)                490135.95
3860188.59      106.96883  (19022501)
        490185.95   3860188.59       99.69440  (19022501)                490235.95
3860188.59       92.74205  (19022501)
        490285.95   3860188.59       86.58439  (19022501)                490335.95
3860188.59       81.12893  (19022501)
        490385.95   3860188.59       76.25755  (19022501)                490435.95
3860188.59       75.47314  (19120108)
        490485.95   3860188.59       75.89833  (19120108)                490535.95
3860188.59       74.07334  (19120108)
        490585.95   3860188.59       71.31625  (19120108)                490635.95
3860188.59       67.76097  (19120708)
        490685.95   3860188.59       63.47312  (19120708)                490735.95
3860188.59       58.24494  (16010208)
        490785.95   3860188.59       57.63280  (16010208)                490835.95
3860188.59       55.99216  (16010208)
        490885.95   3860188.59       53.26413  (16010208)                490935.95
3860188.59       49.73805  (16010208)
        490985.95   3860188.59       46.49432  (18121507)                491035.95
3860188.59       45.81377  (18011822)
        491085.95   3860188.59       44.72176  (18011822)                491135.95
3860188.59       43.35160  (18011822)
        490135.95   3860238.59      115.35906  (15121708)                490185.95
3860238.59      106.47763  (15121708)
        490235.95   3860238.59       98.08399  (15121708)                490285.95
3860238.59       90.49403  (15121708)
        490335.95   3860238.59       83.71420  (15121708)                490385.95
3860238.59       82.63903  (19120108)
        490435.95   3860238.59       82.29166  (19120108)                490485.95
3860238.59       78.58594  (19120108)
        490535.95   3860238.59       74.46728  (19120708)                490585.95
3860238.59       69.95144  (19120708)
        490635.95   3860238.59       63.80800  (19120708)                490685.95
3860238.59       62.42984  (16010208)
        490735.95   3860238.59       60.53439  (16010208)                490785.95
3860238.59       57.49365  (16010208)
        490835.95   3860238.59       53.49256  (16010208)                490885.95
3860238.59       50.16676  (18011822)
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        490935.95   3860238.59       49.42358  (18011822)                490985.95
3860238.59       48.31097  (18011822)
        491035.95   3860238.59       46.38501  (18011822)                491085.95
3860238.59       44.31069  (15010721)
        491135.95   3860238.59       43.32455  (15010721)                490135.95
3860288.59      121.86418  (20120308)
        490185.95   3860288.59      114.17094  (20120308)                490235.95
3860288.59      106.99686  (20120308)
        490285.95   3860288.59       99.36760  (20120308)                490335.95
3860288.59       92.22401  (20120308)
        490385.95   3860288.59       88.25417  (19120108)                490435.95
3860288.59       83.04829  (19120708)
        490485.95   3860288.59       78.00010  (19120708)                490535.95
3860288.59       70.97979  (19120708)
        490585.95   3860288.59       67.99759  (16010208)                490635.95
3860288.59       65.91000  (16010208)
        490685.95   3860288.59       62.45151  (16010208)                490735.95
3860288.59       57.81124  (16010208)
        490785.95   3860288.59       54.74617  (15121708)                490835.95
3860288.59       53.56529  (18011822)
        490885.95   3860288.59       51.83949  (18011822)                490935.95
3860288.59       49.40161  (18011822)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 639
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                   INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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3860438.59       60.95730  (15010721)
        490735.95   3860438.59       57.13285  (15010721)                490785.95
3860438.59       53.68529  (20122520)
        490835.95   3860438.59       51.98545  (20120308)                490135.95
3860488.59      118.43765  (19120708)
        490185.95   3860488.59      106.34206  (16010208)                490235.95
3860488.59      101.73956  (16010208)
        490285.95   3860488.59       94.30599  (16010208)                490335.95
3860488.59       84.74403  (18011822)
        490385.95   3860488.59       82.20376  (18011822)                490435.95
3860488.59       78.19527  (18120708)
        490485.95   3860488.59       74.10453  (15010721)                490535.95
3860488.59       70.53207  (15010721)
        490585.95   3860488.59       65.89333  (15010721)                490635.95
3860488.59       61.21403  (20122520)
        490685.95   3860488.59       58.59493  (15120221)                490735.95
3860488.59       56.21910  (15021320)
        490785.95   3860488.59       54.58820  (15021320)                490135.95
3860538.59      116.81218  (16010208)
        490185.95   3860538.59      108.41722  (16010208)                490235.95
3860538.59       97.10343  (18011822)
        490285.95   3860538.59       92.97151  (18011822)                490335.95
3860538.59       86.85676  (15010721)
        490385.95   3860538.59       83.08725  (15010721)                490435.95
3860538.59       77.59458  (15010721)
        490485.95   3860538.59       71.20107  (20122520)                490535.95
3860538.59       69.86250  (18120708)
        490585.95   3860538.59       66.24771  (18120708)                490635.95
3860538.59       63.04185  (18120708)
        490685.95   3860538.59       60.44046  (20010317)                490735.95
3860538.59       58.53362  (20010317)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 640
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490785.95	3860538.59	56.35344	(20010317)	490135.95	3860588.59	114.63974	(18011822)
490185.95	3860588.59	105.92717	(18011822)	490235.95	3860588.59	99.69817	(15010721)
490285.95	3860588.59	93.20272	(15010721)	490335.95	3860588.59	84.70386	(15010721)
490385.95	3860588.59	79.97448	(15120221)	490435.95	3860588.59	76.50649	(15021320)
490485.95	3860588.59	74.18713	(20010317)	490535.95	3860588.59	70.98846	(20010317)
490585.95	3860588.59	67.61645	(20010317)	490635.95	3860588.59	64.35953	(20012419)
490685.95	3860588.59	60.82475	(20012419)	490735.95	3860588.59	57.84151	(19013107)
490785.95	3860588.59	55.67143	(19013107)	490135.95	3860638.59	118.19099	(15010721)
490185.95	3860638.59	104.72550	(15010721)	490235.95	3860638.59	96.92458	(15120221)
490285.95	3860638.59	91.62131	(15021320)	490335.95	3860638.59	87.66881	(20010317)
490385.95	3860638.59	83.85193	(20010317)	490435.95	3860638.59	79.21665	(20010317)
490485.95	3860638.59	74.27122	(20012419)	490535.95	3860638.59	70.45105	(19013107)
490585.95	3860638.59	67.15895	(19013107)	490635.95	3860638.59	63.72009	(19013107)
490685.95	3860638.59	60.11178	(18120920)	490735.95	3860638.59	57.30025	(16020401)
490785.95	3860638.59	55.12767	(16020401)	490135.95	3860688.59	114.56724	(20010317)
490185.95	3860688.59	113.45880	(20010317)	490235.95	3860688.59	102.22436	(20010317)
490285.95	3860688.59	94.06586	(20012419)	490335.95	3860688.59	88.45927	(19013107)
490385.95	3860688.59	83.41150	(19013107)	490435.95	3860688.59	77.84978	(19013107)
490485.95	3860688.59	73.25685	(16020401)	490535.95	3860688.59	69.85354	(16020401)
490585.95	3860688.59	66.76132	(20122021)	490635.95	3860688.59	63.95131	(20122021)

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        490685.95   3860688.59       61.11881  (20122021)                490735.95
3860688.59       58.08311  (20122021)
        490785.95   3860688.59       55.23580  (20122021)                490135.95
3860738.59      117.78523  (19013107)
        490185.95   3860738.59      108.11837  (19013107)                490235.95
3860738.59       99.83657  (16020401)
        490285.95   3860738.59       93.71640  (16020401)                490335.95
3860738.59       88.63953  (20122021)
        490385.95   3860738.59       83.54394  (20122021)                490435.95
3860738.59       78.69327  (20122021)
        490485.95   3860738.59       73.45493  (20122021)                490535.95
3860738.59       68.06983  (20122021)
        490585.95   3860738.59       63.85650  (20120821)                490635.95
3860738.59       60.93315  (20120821)
        490685.95   3860738.59       58.27041  (20120821)                490735.95
3860738.59       55.61302  (20120821)
        490785.95   3860738.59       53.91763  (15021823)                490135.95
3860788.59      116.27375  (20122021)
        490185.95   3860788.59      105.80264  (20122021)                490235.95
3860788.59       96.79591  (20120821)
        490285.95   3860788.59       90.36041  (20120821)                490335.95
3860788.59       84.18471  (15021823)
        490385.95   3860788.59       80.44736  (15021823)                490435.95
3860788.59       76.44645  (15021823)
        490485.95   3860788.59       72.87565  (15021823)                490535.95
3860788.59       68.97450  (15021823)
        490585.95   3860788.59       64.85724  (15021823)                490635.95
3860788.59       61.47275  (15021823)
        490685.95   3860788.59       58.53595  (15021823)                490735.95
3860788.59       55.95733  (15021823)
        490785.95   3860788.59       53.22793  (15021823)                489985.95
3860838.59      146.59935  (15021823)
        490035.95   3860838.59      134.31141  (15021823)                490085.95
3860838.59      123.45570  (15021823)
        490135.95   3860838.59      113.44383  (15021823)                490185.95
3860838.59      103.68504  (15021823)
        490235.95   3860838.59       96.60392  (15012508)                490285.95
3860838.59       90.71653  (15012508)
        490335.95   3860838.59       84.98496  (15012508)                490385.95
3860838.59       79.95615  (15012508)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 641
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
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                                  INCLUDING SOURCE(S):     L0000317    , L0000318
, L0000319    , L0000320    , L0000321    ,
                  L0000322    , L0000323    , L0000324    , L0000325    , L0000326
, L0000327    , L0000328    , L0000329    ,
                  L0000330    , L0000331    , L0000332    , L0000333    , L0000334
, L0000335    , L0000336    , L0000337    ,
                  L0000338    , L0000339    , L0000340    , L0000341    , L0000342
, L0000343    , L0000344    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        490435.95   3860838.59       75.74570  (15012508)                490485.95
3860838.59       71.70726  (15012508)
        490535.95   3860838.59       67.79512  (15012508)                490585.95
3860838.59       64.03279  (19011605)
        490635.95   3860838.59       60.75297  (19011605)                490685.95
3860838.59       58.04113  (19011605)
        490735.95   3860838.59       55.74400  (19011605)                490785.95
3860838.59       53.47455  (19011605)
        490835.95   3860838.59       51.24706  (19011605)                489835.95
3860888.59      199.15389  (19010506)
        489885.95   3860888.59      175.76192  (19010506)                489935.95
3860888.59      157.07464  (19010506)
        489985.95   3860888.59      142.24547  (19010506)                490035.95
3860888.59      129.69980  (19010506)
        490085.95   3860888.59      119.34993  (19010506)                490135.95
3860888.59      109.83978  (19010506)
        490185.95   3860888.59      101.21153  (19010506)                490235.95
3860888.59       93.95959  (19010506)
        490285.95   3860888.59       87.55327  (19010506)                490335.95
3860888.59       81.75254  (19010506)
        490385.95   3860888.59       77.05278  (19010506)                490435.95
3860888.59       72.92593  (19010506)
        490485.95   3860888.59       68.96379  (19010506)                490535.95
3860888.59       65.27231  (19010506)
        490585.95   3860888.59       61.78665  (19010506)                490635.95
3860888.59       58.53957  (19010506)
        490685.95   3860888.59       55.74677  (19010506)                490735.95
3860888.59       53.26862  (19010506)
        490785.95   3860888.59       50.87694  (19010506)                490835.95
3860888.59       48.88136  (19010506)
        490885.95   3860888.59       47.20810  (16010403)                490935.95
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3860888.59       45.41823  (16010403)
        489835.95   3860938.59      189.99374  (20120308)                489885.95
3860938.59      173.96503  (20120308)
        489935.95   3860938.59      159.78232  (20120308)                489985.95
3860938.59      146.63356  (20120308)
        490035.95   3860938.59      134.55923  (20120308)                490085.95
3860938.59      123.68095  (20120308)
        490135.95   3860938.59      113.08316  (20120308)                490185.95
3860938.59      104.84886  (20120308)
        490235.95   3860938.59       97.36634  (20120308)                490285.95
3860938.59       90.81366  (20120308)
        490335.95   3860938.59       84.62842  (15121708)                490385.95
3860938.59       80.19272  (15121708)
        490435.95   3860938.59       76.10166  (15121708)                490485.95
3860938.59       72.06792  (15121708)
        490535.95   3860938.59       68.44592  (15121708)                490585.95
3860938.59       64.87714  (15121708)
        490635.95   3860938.59       61.61457  (15121708)                490685.95
3860938.59       58.72752  (15121708)
        490735.95   3860938.59       56.09252  (15121708)                490785.95
3860938.59       53.70752  (15121708)
        490835.95   3860938.59       51.80589  (15121708)                490885.95
3860938.59       50.10475  (15121708)
        490935.95   3860938.59       48.22039  (15121708)                489835.95
3860988.59      153.53462  (18120708)
        489885.95   3860988.59      140.25467  (18120708)                489935.95
3860988.59      128.16700  (19010319)
        489985.95   3860988.59      117.48465  (15013105)                490035.95
3860988.59      108.14432  (16120801)
        490085.95   3860988.59      102.20107  (20120308)                490135.95
3860988.59       98.95871  (20120308)
        490185.95   3860988.59       95.84825  (20120308)                490235.95
3860988.59       91.36077  (20120308)
        490285.95   3860988.59       87.22440  (20120308)                490335.95
3860988.59       83.37553  (20120308)
        490385.95   3860988.59       79.68797  (20120308)                490435.95
3860988.59       76.60252  (20120308)
        490485.95   3860988.59       72.99842  (20120308)                490535.95
3860988.59       69.37432  (20120308)
        490585.95   3860988.59       66.05860  (20120308)                490635.95
3860988.59       63.09845  (20120308)
        490685.95   3860988.59       60.10792  (20120308)                490735.95
3860988.59       57.29434  (20120308)
        490785.95   3860988.59       54.89499  (20120308)                490835.95
3860988.59       52.82978  (20120308)
        490885.95   3860988.59       51.04459  (20120308)                490935.95
3860988.59       49.04136  (20120308)
        489835.95   3861038.59      122.91860  (18011522)                489885.95
3861038.59      120.76962  (18120921)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000317 , L0000318 , L0000319 , L0000320 , L0000321 ,
L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 , L0000329 ,
L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 , L0000337 ,
L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
489935.95	3861038.59	114.36368	(20120318)	489985.95	3861038.59	111.54823	(18120708)
490035.95	3861038.59	106.02829	(18120708)	490085.95	3861038.59	98.43572	(18120708)
490135.95	3861038.59	90.20581	(19010319)	490185.95	3861038.59	84.79518	(15020408)
490235.95	3861038.59	79.81883	(15013105)	490285.95	3861038.59	74.26980	(15013105)
490335.95	3861038.59	69.12081	(16120801)	490385.95	3861038.59	66.95051	(16120801)
490435.95	3861038.59	64.55858	(16120801)	490485.95	3861038.59	61.71904	(16120801)
490535.95	3861038.59	60.05446	(20120308)	490585.95	3861038.59	58.50711	(20120308)
490635.95	3861038.59	56.83730	(20120308)	490685.95	3861038.59	55.16846	(20120308)
490735.95	3861038.59	53.54609	(20120308)	490785.95	3861038.59	52.05232	(20120308)
490835.95	3861038.59	50.64560	(20120308)	490885.95	3861038.59	49.23469	(20120308)
490935.95	3861038.59	47.90147	(20120308)	489835.95	3861088.59	106.90718	(20022720)

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        489885.95   3861088.59      103.11377  (20022720)                489935.95
3861088.59       97.56360  (18022523)
        489985.95   3861088.59       95.90686  (18011522)                490035.95
3861088.59       92.09345  (18120921)
        490085.95   3861088.59       87.88571  (20120318)                490135.95
3861088.59       85.86309  (18120708)
        490185.95   3861088.59       84.46141  (18120708)                490235.95
3861088.59       80.23675  (18120708)
        490285.95   3861088.59       75.31628  (18120708)                490335.95
3861088.59       69.94001  (18120708)
        490385.95   3861088.59       65.72722  (19010319)                490435.95
3861088.59       62.70212  (15020408)
        490485.95   3861088.59       59.87845  (15020408)                490535.95
3861088.59       57.15624  (15013105)
        490585.95   3861088.59       54.01487  (15013105)                490635.95
3861088.59       50.80247  (15013105)
        490685.95   3861088.59       48.55343  (16120801)                490735.95
3861088.59       47.13909  (16120801)
        490785.95   3861088.59       45.82310  (18020819)                490835.95
3861088.59       45.83971  (18020819)
        490885.95   3861088.59       44.89471  (18020819)                490935.95
3861088.59       43.02162  (18020819)
        489020.79   3862564.85       44.11597  (16020222)                489043.15
3862350.21       50.24116  (19122903)
        489072.96   3862287.60       52.37601  (19122903)                488980.55
3862078.92       56.92139  (18012323)
        489037.19   3862822.72       40.08162  (18010720)                489120.66
3863016.49       40.24813  (20022108)
        489037.19   3863350.37       35.13896  (20022108)

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 643
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                   INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
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GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)			
	489237.26	489256.56	489275.86	489295.16
489314.46				
3859957.1	130.82434 (20010422)	96.80153 (18010302)	77.93276 (15121820)	65.20127 (16020722)
56.43504 (16020722)				
3859937.6	130.80139 (20010422)	96.78097 (18010302)	77.84829 (15121820)	65.09899 (16020722)
56.30669 (16020722)				
3859918.2	130.78227 (20010422)	96.70450 (18010302)	77.74198 (15121820)	65.03503 (16020722)
56.17266 (16020722)				
3859898.8	130.68561 (20010422)	96.58877 (15121820)	77.57491 (15121820)	64.85247 (16020722)
56.92338 (15121808)				
3859879.4	130.40394 (20010422)	96.35629 (15121820)	77.13665 (15121820)	64.84802 (16010405)
57.93443 (15121808)				
3859860.0	130.08348 (18120603)	96.14837 (18120603)	76.91640 (15121820)	65.23979 (16010405)
58.13431 (15121808)				
3859840.5	130.90001 (18120603)	97.11780 (18120603)	76.76894 (15121820)	65.53410 (16010405)
58.30528 (15121808)				
3859821.1	131.56569 (18120603)	97.94318 (18120603)	76.78342 (15121820)	65.50872 (16010405)
58.25748 (15121808)				
3859801.7	132.13048 (18120603)	98.62396 (18120603)	76.80537 (20030523)	65.68837 (16010405)
58.39906 (15121808)				
3859782.3	132.70640 (18120603)	99.35349 (18120603)	77.41192 (18120603)	65.71310 (16010405)
58.44829 (15121808)				
3859762.9	133.37980 (18120603)	100.11432 (18120603)	78.40377 (18120603)	65.97263 (16010405)
58.39783 (15121808)				
3859743.4	134.02367 (18120603)	100.83476 (18120603)	79.21410 (18120603)	66.20963 (16010405)
58.44721 (16010405)				
3859724.0	134.55647 (18120603)	101.51839 (18120603)	79.96960 (18120603)	66.42719 (16010405)
58.70061 (16010405)				
3859704.6	135.06506 (18120603)	101.99201 (18120603)	80.68586 (18120603)	66.62801 (16010405)
58.98862 (16010405)				
3859685.2	135.56431 (18120603)	102.60851 (18120603)	81.37913 (18120603)	67.00018 (16010405)
59.37751 (16010405)				
3859665.8	136.10411 (18120603)	103.28246 (18120603)	81.99020 (18120603)	67.46975 (15112019)
59.74354 (16010405)				
3859646.4	136.53582 (18120603)	103.75540 (18120603)	82.61122 (18120603)	67.58183 (20030523)
59.57809 (16010405)				
3859626.9	137.71877 (15120819)	104.20745 (18120603)	83.09037 (18120603)	67.84521 (18120603)
59.57444 (16010405)				
3859607.5	138.80813 (15120819)	104.63460 (18120603)	83.63792 (18120603)	68.47331 (18120603)
59.65498 (16010405)				
3859588.1	140.07717 (15120819)	104.87303 (18120603)	84.06774 (18120603)	

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0001073   , L0001074 , L0001075   , L0001076   , L0001077   ,
                 L0001078   , L0001079   , L0001080   , L0001081   , L0001082 , L0001083   , L0001084   , L0001085   ,
                 L0001086   , L0001087   , L0001088   , L0001089   , L0001090 , L0001091   , L0001092   , L0001093   ,
                 L0001094   , L0001095   , L0001096   , L0001097   , L0001098 , L0001099   , L0001100   , . . .   ,

                                   *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489333.76   489353.06   489372.36
      489391.66   489410.96
 - - -

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 3859801.7 |     53.36083 (15121808)     48.62585 (15121808)     44.81126 (15121808)
    41.51493 (15121808)     38.69002 (15121808)
 3859782.3 |     53.49928 (15121808)     48.83624 (15121808)     45.04232 (15121808)
    41.74357 (15121808)     38.87842 (15121808)
 3859762.9 |     53.28073 (15121808)     48.92346 (15121808)     44.84214 (15121808)
    41.63330 (15121808)     38.93848 (15121808)
 3859743.4 |     53.36802 (15121808)     48.95117 (15121808)     45.05355 (15121808)
    41.77421 (15121808)     39.02998 (15121808)
 3859724.0 |     53.40485 (15121808)     49.06509 (15121808)     45.35045 (15121808)
    42.02007 (15121808)     39.19186 (15121808)
 3859704.6 |     53.63233 (15121808)     49.33238 (15121808)     45.56366 (15121808)
    42.29500 (15121808)     39.46866 (15121808)
 3859685.2 |     53.77862 (15121808)     49.44629 (15121808)     45.67550 (15121808)
    42.38114 (15121808)     39.57436 (15121808)
 3859665.8 |     53.89650 (15121808)     49.54551 (15121808)     45.69019 (15121808)
    42.32336 (15121808)     39.55478 (15121808)
 3859646.4 |     53.83570 (15121808)     49.53845 (15121808)     45.81989 (15121808)
    42.48206 (15121808)     39.56562 (15121808)
 3859626.9 |     53.75864 (15121808)     49.56410 (15121808)     45.93523 (15121808)
    42.54096 (15121808)     39.63300 (15121808)
 3859607.5 |     53.79499 (15121808)     49.61288 (15121808)     45.97025 (15121808)
    42.59375 (15121808)     39.76724 (15121808)
 3859588.1 |     53.75811 (15121808)     49.50883 (15121808)     45.85259 (15121808)
    42.59867 (15121808)     39.81622 (15121808)
 3859568.7 |     53.65223 (15121808)     49.46415 (15121808)     45.79910 (15121808)
    42.59912 (15121808)     39.87016 (15121808)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 645
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                  INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                  L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                  L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                  L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
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```
  Y-COORD  |                                                    X-COORD (METERS)
  (METERS) |       489430.26               489449.56               489468.86
      489488.16               489507.46
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |     32.03805 (20121324)     28.69624 (20121324)     26.56957 (16122308)
    26.28856 (15101707)     28.26866 (15101707)
 3859937.6 |     33.87471 (20121324)     30.70745 (20121324)     28.04389 (20121324)
    25.50298 (15013024)     24.09743 (20010318)
 3859918.2 |     33.77624 (20121324)     31.06833 (20121324)     28.96349 (20121324)
    26.63031 (20121324)     25.08708 (15013024)
 3859898.8 |     34.96774 (20121324)     32.11115 (20121324)     29.52387 (20121324)
    27.46973 (20121324)     25.86536 (15013024)
 3859879.4 |     37.14622 (15121808)     33.06285 (20121324)     29.98879 (20121324)
    28.20061 (20121324)     26.96127 (20121324)
 3859860.0 |     37.51617 (15121808)     34.26605 (15121808)     31.90237 (20121324)
    29.90386 (20121324)     28.02246 (20121324)
 3859840.5 |     36.89994 (15121808)     35.15169 (15121808)     31.91931 (15121808)
    30.52475 (20121324)     28.73414 (20121324)
 3859821.1 |     36.93141 (15121808)     35.55306 (15121808)     32.86078 (15121808)
    30.35104 (20121324)     29.14702 (20121324)
 3859801.7 |     36.35989 (15121808)     34.99628 (15121808)     33.39349 (15121808)
    30.47889 (15121808)     29.24228 (20121324)
 3859782.3 |     36.44722 (15121808)     34.40101 (15121808)     33.34367 (15121808)
    31.31275 (15121808)     29.02655 (20121324)
 3859762.9 |     36.58717 (15121808)     34.40715 (15121808)     32.79021 (15121808)
    31.79821 (15121808)     29.51024 (20121324)
 3859743.4 |     36.76433 (15121808)     34.56437 (15121808)     32.93193 (15121808)
    32.18199 (15121808)     29.83128 (15121808)
 3859724.0 |     36.83185 (15121808)     34.79166 (15121808)     33.01887 (15121808)
    32.42221 (15121808)     30.71989 (15121808)
 3859704.6 |     37.00144 (15121808)     34.91593 (15121808)     33.12975 (15121808)
    32.54552 (15121808)     31.34098 (15121808)
 3859685.2 |     37.13950 (15121808)     35.01320 (15121808)     33.18937 (15121808)
    32.58392 (15121808)     31.77182 (15121808)
 3859665.8 |     37.18227 (15121808)     35.12105 (15121808)     33.36699 (15121808)
    32.56652 (15121808)     31.90566 (15121808)
 3859646.4 |     37.25087 (15121808)     35.24137 (15121808)     33.51136 (15121808)
    32.50310 (15121808)     32.02503 (15121808)
 3859626.9 |     37.27537 (15121808)     35.34347 (15121808)     33.62841 (15121808)
    32.45794 (15121808)     31.39741 (15121808)
 3859607.5 |     37.41517 (15121808)     35.43055 (15121808)     33.62328 (15121808)
    32.15469 (15121808)     30.97697 (15121808)
 3859588.1 |     37.43812 (15121808)     35.41523 (15121808)     33.73129 (15121808)
    32.33066 (15121808)     31.10722 (15121808)
 3859568.7 |     37.39546 (15121808)     35.49943 (15121808)     34.13548 (15121808)
    33.00115 (15121808)     31.77713 (15121808)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1   ***
                                INCLUDING SOURCE(S):   L0001073   , L0001074
, L0001075   , L0001076   , L0001077   ,
                  L0001078   , L0001079   , L0001080   , L0001081   , L0001082
, L0001083   , L0001084   , L0001085   ,
                  L0001086   , L0001087   , L0001088   , L0001089   , L0001090
, L0001091   , L0001092   , L0001093   ,
                  L0001094   , L0001095   , L0001096   , L0001097   , L0001098
, L0001099   , L0001100   , . . .   ,

                                 *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489526.76   489546.06   489565.36
      489584.66   489603.96
 -
- -

 3859957.1 | 26.40161 (15101707)   24.69177 (15101707)   24.37040 (15101707)
    24.53328 (15101707)   25.08338 (15101707)
 3859937.6 | 23.35388 (19120108)   22.61865 (19120108)   22.58131 (16120421)
    22.36522 (16120421)   22.29319 (15012821)
 3859918.2 | 24.30398 (19120108)   23.41908 (19120108)   22.72335 (16120421)
    22.78563 (16120421)   22.49720 (16120421)
 3859898.8 | 25.06351 (19120108)   23.84098 (19120108)   23.00653 (19120108)
    22.95672 (16120421)   22.96201 (16120421)
 3859879.4 | 25.82837 (19120108)   24.34347 (19120108)   23.57528 (19120108)
    23.06059 (19120108)   23.18764 (16120421)
 3859860.0 | 26.55940 (15013024)   25.00690 (15013024)   24.14971 (19120108)
    23.74206 (19120108)   23.17224 (16120421)
 3859840.5 | 27.04751 (15013024)   25.68045 (15013024)   24.47479 (15013024)
    23.23875 (15013024)   23.37353 (19120108)
 3859821.1 | 27.29917 (20121324)   26.06225 (15013024)   24.84545 (15013024)
    23.66546 (15013024)   23.37991 (16010123)
 3859801.7 | 27.81939 (20121324)   26.31015 (15013024)   25.29438 (15013024)
    24.21212 (15013024)   23.53491 (16010123)
 3859782.3 | 28.08662 (20121324)   26.52133 (20121324)   25.47636 (15013024)
    24.54022 (15013024)   23.46481 (16010123)

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 3859762.9 |     28.08292 (20121324)     26.91649 (20121324)     25.47578 (15013024)
    24.67693 (15013024)     23.72290 (15013024)
 3859743.4 |     27.80244 (20121324)     27.08245 (20121324)     25.74527 (20121324)
    24.70166 (15013024)     23.92427 (15013024)
 3859724.0 |     27.89795 (15121808)     26.99372 (20121324)     26.05406 (20121324)
    24.61692 (15013024)     23.96647 (15013024)
 3859704.6 |     28.60013 (15121808)     26.89243 (20121324)     26.12612 (20121324)
    24.92396 (20121324)     23.84466 (16012202)
 3859685.2 |     29.15333 (15121808)     26.77427 (15121808)     25.97479 (20121324)
    25.00882 (20121324)     24.22261 (16012202)
 3859665.8 |     29.38970 (15121808)     27.57822 (15121808)     25.85242 (20121324)
    25.06389 (20121324)     24.35527 (16012202)
 3859646.4 |     29.63575 (15121808)     28.06972 (15121808)     25.74002 (15121808)
    25.02463 (20121324)     24.31373 (20121324)
 3859626.9 |     29.79709 (15121808)     28.33423 (15121808)     26.39520 (15121808)
    24.67698 (20121324)     24.19812 (20121324)
 3859607.5 |     29.66657 (15121808)     28.41225 (15121808)     26.65784 (15121808)
    24.63058 (15121808)     24.11615 (20121324)
 3859588.1 |     30.12276 (15121808)     28.81226 (15121808)     27.20002 (15121808)
    25.28153 (15121808)     24.00201 (20121324)
 3859568.7 |     30.92936 (15121808)     29.67105 (15121808)     27.95708 (15121808)
    25.91214 (15121808)     23.91401 (15121808)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 647
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                  INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                  L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                  L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                  L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489623.26
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |     26.45975 (15101707)
 3859937.6 |     22.66496 (15012821)
 3859918.2 |     22.63593 (15012821)
 3859898.8 |     22.64976 (16120421)
 3859879.4 |     23.13769 (16120421)
 3859860.0 |     23.39919 (16120421)
 3859840.5 |     23.46651 (16120421)
 3859821.1 |     23.23618 (16120421)
 3859801.7 |     23.52239 (16010123)
 3859782.3 |     23.70097 (16010123)
 3859762.9 |     23.62332 (16010123)
 3859743.4 |     23.34483 (16010123)
 3859724.0 |     22.86959 (16010123)
 3859704.6 |     23.26891 (16012202)
 3859685.2 |     23.94090 (16012202)
 3859665.8 |     24.35470 (16012202)
 3859646.4 |     24.51461 (16012202)
 3859626.9 |     24.44250 (16012202)
 3859607.5 |     24.16419 (16012202)
 3859588.1 |     24.23894 (19011604)
 3859568.7 |     24.19713 (19011604)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 648
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                 INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                 L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                 L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                 L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489260.34              489284.99              489309.64
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      489334.29              489358.94
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 ,
L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 ,
L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489383.59	489408.24	489432.89	489457.54	489482.19
3859173.4	47.33198 (20030523)	43.39790 (15112019)	40.62634 (16010405)	38.56784 (16010405)	36.47789 (15121808)
3859151.9	47.53363 (20030523)	43.53198 (15112019)	40.61314 (16010405)	38.67359 (16010405)	36.21286 (15121808)
3859130.3	47.87338 (20030523)	43.64755 (15112019)	40.76453 (16010405)	38.76212 (16010405)	36.23944 (16010405)
3859108.7	48.03859 (20030523)	43.74450 (15112019)	40.90013 (16010405)	38.88218 (16010405)	36.40125 (16010405)
3859087.1	48.02115 (20030523)	43.97526 (15112019)	40.85787 (16010405)	38.99813 (16010405)	36.50572 (16010405)
3859065.6	48.31104 (20030523)	44.31874 (15112019)	41.00424 (15112019)	39.04180 (16010405)	36.67821 (16010405)
3859044.0	48.57946 (20030523)	44.50990 (20030523)	41.18594 (15112019)	39.02421 (16010405)	36.79903 (16010405)
3859022.4	48.67455 (20030523)	44.62326 (20030523)	41.29700 (15112019)	39.04718 (16010405)	36.91545 (16010405)
3859000.9	48.91290 (20030523)	44.94411 (20030523)	41.47434 (15112019)	39.05763 (16010405)	37.00417 (16010405)
3858979.3	49.36000 (18120603)	45.14323 (20030523)	41.60349 (15112019)	38.93881 (16010405)	37.05394 (16010405)
3858957.7	49.75021 (18120603)	45.32478 (20030523)	41.71756 (15112019)	38.77743 (16010405)	37.10692 (16010405)
3858936.1	50.15999 (18120603)	45.44598 (20030523)	41.85259 (15112019)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 ,
L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 ,
L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)			
	489506.84	489531.49	489556.14	489580.79	489605.44

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 3859173.4 |     35.04399 (15121808)     33.07430 (15121808)     31.64612 (15121808)
    29.99561 (15121808)     28.69769 (15121808)
 3859151.9 |     35.07247 (15121808)     33.17583 (15121808)     31.55313 (15121808)
    30.09894 (15121808)     28.87024 (15121808)
 3859130.3 |     35.11259 (15121808)     33.35570 (15121808)     31.71339 (15121808)
    30.25803 (15121808)     28.97546 (15121808)
 3859108.7 |     35.13958 (15121808)     33.49637 (15121808)     31.89516 (15121808)
    30.41041 (15121808)     29.05112 (15121808)
 3859087.1 |     34.94245 (15121808)     33.60814 (15121808)     32.06361 (15121808)
    30.50264 (15121808)     29.14168 (15121808)
 3859065.6 |     34.88628 (15121808)     33.65770 (15121808)     32.14133 (15121808)
    30.66455 (15121808)     29.19665 (15121808)
 3859044.0 |     34.81773 (15121808)     33.63486 (15121808)     32.26196 (15121808)
    30.77087 (15121808)     29.30419 (15121808)
 3859022.4 |     34.64850 (16010405)     33.62338 (15121808)     32.34927 (15121808)
    30.87260 (15121808)     29.41121 (15121808)
 3859000.9 |     34.80391 (16010405)     33.49825 (15121808)     32.37011 (15121808)
    30.96903 (15121808)     29.47769 (15121808)
 3858979.3 |     34.95177 (16010405)     33.56036 (15121808)     32.41635 (15121808)
    31.11364 (15121808)     29.64061 (15121808)
 3858957.7 |     35.11708 (16010405)     33.51310 (15121808)     32.43831 (15121808)
    31.22368 (15121808)     29.80582 (15121808)
 3858936.1 |     35.23735 (16010405)     33.45810 (15121808)     32.48594 (15121808)
    31.17736 (15121808)     29.79496 (15121808)
 3858914.6 |     35.34607 (16010405)     33.32433 (16010405)     32.51529 (15121808)
    31.98838 (16102717)     31.49741 (16102717)
 3858893.0 |     35.41263 (16010405)     33.43643 (16010405)     32.56366 (15121808)
    32.71799 (16102717)     32.83513 (16102717)
 3858871.4 |     35.52277 (16010405)     33.70681 (15121808)     32.59600 (15121808)
    32.77673 (16102717)     33.26217 (16102717)
 3858849.9 |     35.57370 (16010405)     33.63500 (16010405)     32.95112 (15012820)
    32.49454 (16102717)     33.08093 (16102717)
 3858828.3 |     35.70302 (16010405)     34.28782 (15012820)     34.34391 (15012820)
    34.21611 (15012820)     33.86612 (15012820)
 3858806.7 |     35.78643 (16010405)     34.44663 (15012820)     34.81920 (15012820)
    35.09702 (15012820)     35.33505 (15012820)
 3858785.2 |     37.00388 (16012108)     36.23429 (16012108)     35.10580 (16012108)
    35.26778 (15012820)     35.80692 (15012820)
 3858763.6 |     38.82105 (16012108)     38.69896 (16012108)     38.29261 (16012108)
    37.53777 (16012108)     36.51467 (16012108)
 3858742.0 |     39.57904 (16012108)     39.78244 (16012108)     39.92294 (16012108)
    39.92467 (16012108)     39.79138 (16012108)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 651
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489630.09	489654.74	489679.39	489704.04	489728.69
3859173.4	27.51353 (15121808)	26.38900 (15121808)	25.27564 (15121808)	25.04054 (16021019)	25.63484 (16021019)
3859151.9	27.63833 (15121808)	26.52362 (15121808)	25.42624 (15121808)	24.81004 (19122021)	25.30600 (16021019)
3859130.3	27.73808 (15121808)	26.63128 (15121808)	25.54840 (15121808)	25.20379 (19122021)	25.24179 (19122021)
3859108.7	27.85671 (15121808)	26.70682 (15121808)	25.65858 (15121808)	25.22998 (19122021)	25.58644 (19122021)
3859087.1	27.94676 (15121808)	26.82339 (15121808)	25.78446 (15121808)	25.18492 (16010402)	25.55622 (19122021)
3859065.6	28.03744 (15121808)	26.89982 (15121808)	25.87438 (15121808)	25.83965 (16010402)	25.66960 (16010402)
3859044.0	28.14682 (15121808)	27.00658 (15121808)	25.96043 (15121808)	26.14782 (16010402)	26.25504 (16010402)
3859022.4	28.21182 (15121808)	27.07021 (15121808)	26.03664 (15121808)	26.19606 (16010402)	26.48864 (16010402)
3859000.9	28.29532 (15121808)	27.17697 (15121808)	26.36157 (16020719)	26.11646 (16010402)	26.50877 (16010402)
3858979.3	28.40120 (15121808)	27.24041 (15121808)	26.99629 (16020719)	26.93592 (16020719)	26.65487 (16020719)
3858957.7	28.43705 (15121808)	27.35733 (15121808)	27.24110 (16020719)	27.41640 (16020719)	27.46801 (16020719)
3858936.1	28.60999 (16111919)	27.61304 (16111919)	27.25952 (16020719)	27.58122 (16020719)	27.84828 (16020719)
3858914.6	30.65249 (16102717)	29.74348 (16111919)	28.98282 (16111919)	27.82332 (16111919)	27.93751 (16020719)
3858893.0	32.57926 (16102717)	32.06410 (16102717)	31.10588 (16102717)		

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489753.34
3859173.4	26.25529 (16021019)
3859151.9	25.94159 (16021019)
3859130.3	25.61205 (16021019)
3859108.7	25.72003 (19122021)
3859087.1	25.93495 (19122021)
3858871.4	33.49181 (16102717) 33.59209 (16102717) 33.34486 (16102717) 30.25468 (16111919) 29.35336 (16111919)
3858849.9	33.59213 (16102717) 34.13900 (16102717) 34.44502 (16102717) 32.67925 (16102717) 31.58358 (16102717)
3858828.3	33.29728 (16102717) 34.01063 (16102717) 34.61380 (16102717) 34.47873 (16102717) 34.18128 (16102717)
3858806.7	35.29015 (15012820) 34.90785 (15012820) 34.29931 (16102717) 35.11286 (16102717) 35.45803 (16102717)
3858785.2	36.19757 (15012820) 36.54921 (15012820) 36.40259 (15012820) 35.00800 (16102717) 35.71518 (16102717)
3858763.6	36.24717 (15012820) 36.96636 (15012820) 37.38984 (15012820) 36.03524 (15012820) 35.44043 (16102717)
3858742.0	38.93196 (16012108) 38.05337 (16012108) 37.35422 (15012820) 37.71932 (15012820) 37.70142 (15012820)
	38.01575 (15012820) 38.72237 (15012820)

 3859065.6 | 25.84809 (19122021)
 3859044.0 | 26.16048 (16010402)
 3859022.4 | 26.66521 (16010402)
 3859000.9 | 26.83912 (16010402)
 3858979.3 | 26.79299 (16010402)
 3858957.7 | 27.31960 (16020719)
 3858936.1 | 28.03557 (16020719)
 3858914.6 | 28.31727 (16020719)
 3858893.0 | 28.30808 (19020723)
 3858871.4 | 30.82037 (16111919)
 3858849.9 | 33.36879 (16102717)
 3858828.3 | 35.48996 (16102717)
 3858806.7 | 36.24642 (16102717)
 3858785.2 | 36.17695 (16102717)
 3858763.6 | 37.23646 (15012820)
 3858742.0 | 39.01040 (15012820)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1   ***
                                 INCLUDING SOURCE(S):   L0001073   , L0001074 , L0001075   , L0001076   , L0001077   ,
                  L0001078   , L0001079   , L0001080   , L0001081   , L0001082 , L0001083   , L0001084   , L0001085   ,
                  L0001086   , L0001087   , L0001088   , L0001089   , L0001090 , L0001091   , L0001092   , L0001093   ,
                  L0001094   , L0001095   , L0001096   , L0001097   , L0001098 , L0001099   , L0001100   , . . .   ,

                                  *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 488584.66   488614.48   488644.30
      488674.12   488703.94
 -

 3858905.0 | 43.75415 (16102717)   44.25858 (16102717)   44.41935 (16102717)
    44.26302 (16102717)   44.21781 (16102717)
 3858880.0 | 43.48637 (15012820)   45.28376 (16102717)   46.21762 (16102717)

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   46.31420 (16102717)     46.45532 (16102717)
 3858855.1 |     45.58159 (15012820)     45.54712 (15012820)     46.80005 (16102717)
   48.27096 (16102717)     48.77961 (16102717)
 3858830.2 |     46.71371 (16012108)     47.42696 (15012820)     48.24464 (15012820)
   48.65279 (16102717)     50.11813 (16102717)
 3858805.3 |     49.90003 (16012108)     50.34465 (16012108)     49.61269 (15012820)
   50.52565 (15012820)     50.29322 (15012820)
 3858780.3 |     51.19190 (16012108)     51.91729 (16012108)     52.17628 (16012108)
   52.06121 (16012108)     52.76054 (15012820)
 3858755.4 |     49.55671 (16012108)     52.29458 (16012108)     54.21879 (16012108)
   55.09689 (16012108)     55.18089 (16012108)
 3858730.5 |     50.08842 (15120818)     50.03830 (15120818)     52.76936 (16012108)
   55.80288 (16012108)     57.65440 (16012108)
 3858705.5 |     51.97793 (15120818)     52.82509 (15120818)     53.36686 (15120818)
   53.25955 (15120818)     56.15429 (16012108)
 3858680.6 |     52.78685 (20121619)     52.84836 (15120818)     55.44657 (15120818)
   56.66640 (15120818)     57.14502 (15120818)
 3858655.7 |     55.37397 (20121619)     55.93196 (20121619)     56.41024 (20121619)
   56.59498 (20121619)     58.60768 (15120818)
 3858630.8 |     60.01875 (16020308)     59.41082 (16020308)     59.05865 (16020308)
   59.97414 (20121619)     60.74921 (20121619)
 3858605.8 |     67.44703 (16020308)     67.04955 (16020308)     66.75967 (16020308)
   66.42921 (16020308)     66.19226 (16020308)
 3858580.9 |     73.65343 (16020308)     74.01306 (16020308)     74.32461 (16020308)
   74.31103 (16020308)     74.47101 (16020308)
 3858556.0 |     75.16606 (16020308)     77.30009 (16020308)     79.19852 (16020308)
   80.60973 (16020308)     81.77034 (16020308)
 3858531.0 |     72.58451 (18121217)     73.38584 (16020308)     77.04224 (16020308)
   80.55088 (16020308)     83.85232 (16020308)
 3858506.1 |     74.70225 (19011704)     75.78308 (19011704)     77.65972 (18121217)
   79.88658 (18121217)     81.89346 (18121217)
 3858481.2 |     75.96898 (16010404)     77.56847 (16010404)     79.31516 (16010404)
   81.74076 (19011704)     84.43751 (19011704)
 3858456.2 |     72.74213 (16090819)     75.73501 (16010404)     78.84973 (16010404)
   81.86009 (16010404)     85.05598 (16010404)
 3858431.3 |     71.08587 (15120917)     72.95094 (15120917)     74.67658 (15120917)
   76.81526 (16090819)     80.04142 (16090819)
 3858406.4 |     71.87112 (20022021)     73.98854 (20022021)     75.73765 (20022021)
   77.82999 (20022021)     80.19059 (20022021)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 654
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                   INCLUDING SOURCE(S):     L0001073    , L0001074
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, L0001075    , L0001076    , L0001077    ,
                L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       488733.76               488763.58              488793.40
      488823.22              488853.04
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3858905.0 |     44.33031 (16102717)     45.01545 (16012108)     45.41673 (16012108)
    46.19541 (16012108)     47.13542 (16012108)
 3858880.0 |     46.50344 (16102717)     46.33215 (16102717)     46.46262 (16102717)
    46.87160 (16012108)     47.93350 (16012108)
 3858855.1 |     48.98995 (16102717)     48.00457 (16102717)     48.13548 (16102717)
    48.19305 (16102717)     48.85116 (16012108)
 3858830.2 |     50.88066 (16102717)     50.80392 (16102717)     50.49004 (16102717)
    50.24579 (16102717)     50.28827 (16102717)
 3858805.3 |     51.87179 (16102717)     53.37201 (16102717)     53.65689 (16102717)
    53.23732 (16102717)     52.85380 (16102717)
 3858780.3 |     53.28110 (15012820)     53.56699 (16102717)     56.04585 (16102717)
    56.73246 (16102717)     56.72477 (16102717)
 3858755.4 |     54.98273 (16012108)     56.19477 (15012820)     56.46844 (15012820)
    58.57295 (16102717)     60.32420 (16102717)
 3858730.5 |     58.50457 (16012108)     58.48313 (16012108)     58.85146 (15012820)
    60.07789 (15012820)     60.70096 (16102717)
 3858705.5 |     59.62396 (16012108)     61.70633 (16012108)     62.52166 (16012108)
    62.38837 (16012108)     63.47422 (15012820)
 3858680.6 |     56.99658 (15120818)     60.27395 (16012108)     64.29565 (16012108)
    66.40489 (16012108)     67.31680 (16012108)
 3858655.7 |     60.43313 (15120818)     61.19489 (15120818)     61.47990 (15120818)
    65.21148 (16012108)     69.78733 (16012108)
 3858630.8 |     61.04382 (20121619)     62.24531 (15120818)     64.93019 (15120818)
    66.13263 (15120818)     66.64150 (15120818)
 3858605.8 |     65.97776 (16020308)     65.70116 (16020308)     66.35440 (20121619)
    66.58791 (20121517)     70.16326 (15120818)
 3858580.9 |     74.41939 (16020308)     74.20852 (16020308)     74.25323 (16020308)
    74.35519 (16020308)     74.45055 (16020308)
 3858556.0 |     82.70801 (16020308)     83.34984 (16020308)     83.61592 (16020308)
    83.61163 (16020308)     83.55610 (16020308)
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1   ***
                                   INCLUDING SOURCE(S):   L0001073   , L0001074 , L0001075   , L0001076   , L0001077   ,
                                      L0001078   , L0001079   , L0001080   , L0001081   , L0001082 , L0001083   , L0001084   , L0001085   ,
                                      L0001086   , L0001087   , L0001088   , L0001089   , L0001090 , L0001091   , L0001092   , L0001093   ,
                                      L0001094   , L0001095   , L0001096   , L0001097   , L0001098 , L0001099   , L0001100   , . . .   ,

                                    *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 488882.86   488912.68   488942.50
      488972.32   489002.14
 - - -

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    55.18374 (16012108)     57.13214 (20112808)
 3858805.3 |     52.74983 (16102717)     53.19306 (16102717)     54.58228 (16012108)
    57.24211 (16012108)     57.98482 (16012108)
 3858780.3 |     56.32780 (16102717)     56.15234 (16102717)     56.24864 (16102717)
    57.61002 (16012108)     59.52123 (16012108)
 3858755.4 |     60.63459 (16102717)     60.03942 (16102717)     59.39928 (16102717)
    59.38843 (16102717)     60.26443 (16102717)
 3858730.5 |     63.90944 (16102717)     64.59864 (16102717)     64.04727 (16102717)
    63.27070 (16102717)     63.10681 (16102717)
 3858705.5 |     64.26729 (15012820)     67.35249 (16102717)     69.33311 (16102717)
    69.10316 (16102717)     67.96530 (16102717)
 3858680.6 |     67.35294 (16012108)     69.25035 (15012820)     70.71129 (16102717)
    74.49106 (16102717)     75.09183 (16102717)
 3858655.7 |     72.35693 (16012108)     72.95640 (16012108)     73.81487 (15012820)
    75.10244 (15012820)     79.57848 (16102717)
 3858630.8 |     71.33689 (16012108)     76.30373 (16012108)     78.96210 (16012108)
    79.17274 (16012108)     81.47212 (15012820)
 3858605.8 |     72.32921 (15120818)     72.75611 (15120818)     78.03851 (16012108)
    83.77471 (16012108)     86.69927 (16012108)
 3858580.9 |     74.53277 (16020308)     75.63055 (15120818)     78.83279 (15120818)
    80.24754 (15120818)     86.34952 (16012108)
 3858556.0 |     83.69299 (16020308)     83.83028 (16020308)     84.33149 (16020308)
    85.26200 (16020308)     87.26344 (15120818)
 3858531.0 |     94.07988 (16020308)     94.43355 (16020308)     94.72172 (16020308)
    95.13180 (16020308)     95.84106 (16020308)
 3858506.1 |    102.39795 (16020308)    104.86664 (16020308)    106.78935 (16020308)
   107.88058 (16020308)    108.31412 (16020308)
 3858481.2 |     98.76044 (18121217)    104.41789 (16020308)    110.85030 (16020308)
   116.07633 (16020308)    120.44890 (16020308)
 3858456.2 |    103.65048 (19011704)    106.92710 (19011704)    109.99653 (19011704)
   112.89535 (18121217)    117.13575 (18121217)
 3858431.3 |    103.12674 (16010404)    108.57964 (16010404)    113.70233 (16010404)
   118.89577 (16010404)    123.89001 (16010404)
 3858406.4 |     97.87698 (15120917)    102.00277 (15120917)    105.83780 (15120917)
   110.53155 (16090819)    116.93050 (16090819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 656
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                 INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                 L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                 L0001086    , L0001087    , L0001088    , L0001089    , L0001090
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, L0001091    , L0001092    , L0001093    ,
                L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489031.96               489061.78               489091.60
      489121.42               489151.24
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3858905.0 |     58.31370 (16010123)     65.18757 (16120117)     74.18891 (19120419)
    83.51693 (18020417)     91.69170 (20022718)
 3858880.0 |     59.77063 (16012202)     64.38117 (16120421)     73.05344 (19120419)
    84.99029 (18020417)     95.88158 (19012517)
 3858855.1 |     59.57796 (18010108)     65.33284 (16012202)     73.89745 (16120117)
    87.43015 (19120419)    101.73541 (18020417)
 3858830.2 |     61.13523 (20112808)     65.50893 (16012202)     73.09346 (16010123)
    86.20260 (16120117)    105.14590 (18020417)
 3858805.3 |     62.19116 (20112808)     66.67364 (18010108)     73.43939 (16012202)
    84.10811 (16120117)    106.75191 (19120419)
 3858780.3 |     61.49755 (16012108)     68.29779 (20112808)     73.60405 (18010108)
    82.52728 (16012202)    101.57870 (16120117)
 3858755.4 |     62.22732 (16012108)     66.67606 (20112808)     75.28695 (20112808)
    82.14421 (18010108)     95.79564 (16091619)
 3858730.5 |     63.45877 (16102717)     65.43698 (16012108)     74.78627 (20112808)
    83.36338 (20112808)     94.64773 (16012202)
 3858705.5 |     67.24566 (16102717)     67.60286 (16102717)     70.98253 (19122021)
    84.47994 (20112808)     94.93576 (18010108)
 3858680.6 |     73.91290 (16102717)     72.53917 (16102717)     71.91949 (16102717)
    79.30582 (16122818)     95.87328 (20112808)
 3858655.7 |     81.84985 (16102717)     81.49676 (16102717)     79.47035 (16102717)
    80.07457 (16010402)     90.77674 (16122922)
 3858630.8 |     84.31153 (16102717)     89.82945 (16102717)     90.34419 (16102717)
    88.16994 (16102717)     90.38084 (16122922)
 3858605.8 |     87.37247 (16012108)     90.78251 (15012820)     97.83327 (16102717)
   100.89770 (16102717)    100.33372 (16102717)
 3858580.9 |     93.28527 (16012108)     96.33103 (16012108)     98.91796 (15012820)
   104.82521 (16102717)    114.12979 (16102717)
 3858556.0 |     89.30486 (15120818)     96.86564 (16012108)    105.02725 (16012108)
   108.81811 (16012108)    113.71732 (15012820)
 3858531.0 |     97.19834 (16020308)     98.91091 (16020308)    101.23864 (16020308)
   110.30247 (16012108)    119.82296 (16012108)
 3858506.1 |    108.79196 (16020308)    109.71230 (16020308)    110.72805 (16020308)
   112.85040 (16020308)    116.37213 (16020308)
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                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0001073   , L0001074 , L0001075   , L0001076   , L0001077   ,
                                   L0001078   , L0001079   , L0001080   , L0001081   , L0001082 , L0001083   , L0001084   , L0001085   ,
                                   L0001086   , L0001087   , L0001088   , L0001089   , L0001090 , L0001091   , L0001092   , L0001093   ,
                                   L0001094   , L0001095   , L0001096   , L0001097   , L0001098 , L0001099   , L0001100   , . . .   ,

                                    *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489181.06
 - - -

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1   ***
                                    INCLUDING SOURCE(S):   L0001073   , L0001074 , L0001075   , L0001076   , L0001077   ,
                 L0001078   , L0001079   , L0001080   , L0001081   , L0001082 , L0001083   , L0001084   , L0001085   ,
                 L0001086   , L0001087   , L0001088   , L0001089   , L0001090 , L0001091   , L0001092   , L0001093   ,
                 L0001094   , L0001095   , L0001096   , L0001097   , L0001098 , L0001099   , L0001100   , . . .   ,

                                    *** NETWORK ID: UCART4   ; NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489386.10   489460.62   489535.14
      489609.66   489684.18
 -

 3861675.8 | 21.04668 (19121219)   20.02211 (16020720)   18.09677 (18020121)
    16.92853 (16020722)   15.23124 (16122202)
 3861650.6 | 21.44556 (19121219)   20.34433 (16020720)   18.42086 (16020722)
    17.11245 (16020722)   15.39425 (16122202)
 3861625.5 | 21.82869 (19121219)   20.60512 (16020720)   18.72945 (16020722)
    17.20089 (16020722)   15.50461 (16122202)
 3861600.3 | 22.17410 (19121219)   21.04291 (16020720)   19.00917 (16020722)
    17.27556 (16020722)   15.67663 (16122202)
 3861575.2 | 22.80413 (19121219)   21.30568 (16020720)   19.24065 (16020722)
    17.33640 (16020722)   15.77600 (19123008)

```
 3861550.1 |     23.17520 (19121219)     21.59557 (16020720)     19.55773 (16020722)
    17.35550 (16020722)     15.71954 (19123008)
 3861524.9 |     23.48209 (19121219)     21.91366 (16020720)     19.82521 (16020722)
    17.33253 (16020722)     15.71152 (19123008)
 3861499.8 |     23.78425 (19121219)     22.17994 (16020720)     20.04003 (16020722)
    17.50330 (16122202)     15.78355 (19123008)
 3861474.6 |     24.08059 (19121219)     22.41136 (16020720)     20.23523 (16020722)
    17.67849 (16122202)     15.86899 (19123008)
 3861449.5 |     24.32462 (19121219)     22.62640 (16020720)     20.40988 (16020722)
    17.78344 (16122202)     15.79022 (19123008)
 3861424.4 |     24.60475 (19121219)     22.84515 (16020720)     20.54454 (16020722)
    17.84936 (16122202)     15.80987 (19123008)
 3861399.2 |     24.87534 (19121219)     23.00227 (16020720)     20.63777 (16020722)
    17.94278 (16122202)     15.81906 (19123008)
 3861374.1 |     25.24065 (16020720)     23.11647 (16020720)     20.74626 (16020722)
    18.01605 (16122202)     15.79125 (19123008)
 3861348.9 |     25.81332 (16020720)     23.24224 (18020121)     20.83253 (16020722)
    18.03682 (16122202)     15.82462 (18120822)
 3861323.8 |     26.37982 (16020720)     23.48692 (18020121)     20.93603 (16020722)
    18.05769 (15010520)     15.92736 (18120822)
 3861298.7 |     26.96631 (16020720)     23.88987 (16020722)     21.01864 (16020722)
    18.08969 (15010520)     16.06807 (18120822)
 3861273.5 |     27.60271 (16020720)     24.28458 (16020722)     21.04135 (16020722)
    18.15284 (15010520)     16.09848 (18120822)
 3861248.4 |     28.32225 (16020720)     24.69996 (16020722)     21.02441 (16020722)
    18.16948 (15010520)     16.12643 (18120822)
 3861223.2 |     29.06487 (16020720)     25.16280 (16020722)     21.00902 (16020722)
    18.14093 (15010520)     16.13969 (18120822)
 3861198.1 |     29.79542 (16020720)     25.62029 (16020722)     21.06452 (15010520)
    18.08448 (15010520)     16.15659 (18120822)
 3861173.0 |     30.50842 (16020720)     26.04333 (16020722)     21.19559 (15010520)
    18.05258 (19123008)     16.16422 (18120822)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 659
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                   INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                  L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                  L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                  L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,
```

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	489758.70	489833.22	489907.74	489982.26	490056.78
3861675.8	13.82194 (19123008)	12.78315 (18120822)	11.87618 (18120822)	10.96779 (19122119)	10.19108 (19122119)
3861650.6	13.86191 (19123008)	12.88264 (18120822)	11.91470 (18120822)	10.96225 (19122119)	10.16083 (19010320)
3861625.5	13.92559 (19123008)	12.97910 (18120822)	11.96406 (18120822)	11.01022 (19122119)	10.19656 (19010320)
3861600.3	14.07747 (19121118)	13.10382 (18120822)	11.94565 (18120822)	11.11187 (19122119)	10.29030 (19010320)
3861575.2	14.11663 (19121118)	13.13546 (18120822)	11.90299 (19122119)	11.14883 (19122119)	10.27915 (19010320)
3861550.1	14.08824 (19121118)	13.11507 (18120822)	11.95167 (19122119)	11.13959 (19122119)	10.27261 (19010320)
3861524.9	14.11668 (18120822)	13.10513 (18120822)	11.97205 (19122119)	11.09296 (19122119)	10.35006 (16122718)
3861499.8	14.18711 (18120822)	13.10732 (18120822)	11.99445 (19122119)	11.12726 (19122119)	10.43680 (16122718)
3861474.6	14.26368 (18120822)	13.11244 (18120822)	12.01037 (19122119)	11.19921 (19122119)	10.47887 (20010318)
3861449.5	14.37318 (18120822)	13.12149 (18120822)	12.02089 (19122119)	11.09740 (19010320)	10.51749 (20010318)
3861424.4	14.41851 (18120822)	13.13527 (18120822)	12.12352 (19122119)	11.06785 (19010320)	10.56159 (20010318)
3861399.2	14.47535 (18120822)	13.15440 (18120822)	12.06815 (19122119)	11.07655 (20010318)	10.58411 (20010318)
3861374.1	14.50812 (18120822)	13.14841 (18120822)	12.00895 (19122119)	11.14652 (20010318)	10.61819 (20010318)
3861348.9	14.51835 (18120822)	13.10873 (19122119)	11.97611 (19122119)	11.20737 (20010318)	10.64588 (20010318)
3861323.8	14.53263 (18120822)	13.04648 (19122119)	11.96057 (19122119)	11.26342 (20010318)	10.65882 (20010318)
3861298.7	14.53991 (18120822)	13.04790 (19122119)	11.95278 (19122119)	11.34155 (20010318)	10.66870 (20010318)
3861273.5	14.54144 (18120822)	13.06874 (19122119)	11.98683 (20010318)	11.38767 (20010318)	10.65598 (20010318)
3861248.4	14.51307 (18120822)	13.09826 (19122119)	12.07545 (20010318)	11.38133 (20010318)	10.66274 (20010318)
3861223.2	14.49343 (18120822)	13.11402 (19122119)	12.11963 (20010318)		

 3861675.8 | 9.52438 (19122222)   9.08790 (20010318)   8.73731 (20010318)
     8.38730 (20010318)   8.01750 (20010318)
 3861650.6 | 9.51725 (19122222)   9.18688 (20010318)   8.85919 (20010318)
     8.39114 (20010318)   8.01476 (20010318)
 3861625.5 | 9.63811 (16122718)   9.32466 (20010318)   8.99923 (20010318)
     8.46910 (20010318)   8.08685 (20010318)
 3861600.3 | 9.79627 (16122718)   9.46961 (20010318)   9.08287 (20010318)
     8.65494 (20010318)   8.25176 (20010318)
 3861575.2 | 9.81743 (20010318)   9.51796 (20010318)   9.08254 (20010318)
     8.62769 (20010318)   8.22106 (20010318)
 3861550.1 | 9.96133 (20010318)   9.55232 (20010318)   9.13163 (20010318)
     8.62654 (20010318)   8.26389 (20010318)
 3861524.9 | 10.01332 (20010318)   9.54971 (20010318)   9.14972 (20010318)
     8.69223 (20010318)   8.23102 (20010318)

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 3861499.8 |     10.01931 (20010318)      9.60829 (20010318)      9.20281 (20010318)
     8.72953 (20010318)      8.20923 (20010318)
 3861474.6 |     10.05273 (20010318)      9.71909 (20010318)      9.26132 (20010318)
     8.69230 (20010318)      8.22346 (20010318)
 3861449.5 |     10.21282 (20010318)      9.76384 (20010318)      9.19750 (20010318)
     8.64011 (20010318)      8.19263 (20010318)
 3861424.4 |     10.12940 (20010318)      9.73744 (20010318)      9.16076 (20010318)
     8.61379 (20010318)      8.17262 (20010318)
 3861399.2 |     10.11250 (20010318)      9.65344 (20010318)      9.10790 (20010318)
     8.59313 (20010318)      8.13835 (20010318)
 3861374.1 |     10.12025 (20010318)      9.63173 (20010318)      9.06862 (20010318)
     8.57120 (20010318)      8.11671 (16122308)
 3861348.9 |     10.10819 (20010318)      9.63371 (20010318)      9.05088 (20010318)
     8.55479 (20010318)      8.10818 (16122308)
 3861323.8 |     10.09496 (20010318)      9.56101 (20010318)      9.04731 (20010318)
     8.55759 (20010318)      8.12066 (16122308)
 3861298.7 |     10.13605 (20010318)      9.53680 (20010318)      9.04278 (20010318)
     8.53814 (20010318)      8.14007 (16122308)
 3861273.5 |     10.08483 (20010318)      9.54529 (20010318)      9.03717 (20010318)
     8.52383 (20010318)      8.17364 (16122308)
 3861248.4 |     10.06054 (20010318)      9.54480 (20010318)      9.02281 (20010318)
     8.51452 (20010318)      8.17847 (16122308)
 3861223.2 |     10.07297 (20010318)      9.55195 (20010318)      9.05256 (20010318)
     8.52744 (16122308)      8.19749 (16122308)
 3861198.1 |     10.09434 (20010318)      9.57498 (20010318)      9.10319 (20010318)
     8.55671 (16122308)      8.24482 (16122308)
 3861173.0 |     10.09671 (20010318)      9.59707 (20010318)      9.07715 (20010318)
     8.58590 (16122308)      8.24928 (16122308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 661
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                  INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                  L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                  L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                  L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                   *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 490503.90	490578.42	490652.94	490727.46	490801.98
3861675.8	7.65483 (20010318)	7.27219 (20010318)	7.03486 (16122308)	7.09169 (20022108)	7.70107 (20022108)
3861650.6	7.64006 (20010318)	7.30850 (20010318)	7.13519 (16122308)	7.09444 (20022108)	7.72588 (20022108)
3861625.5	7.68789 (20010318)	7.39653 (16122308)	7.21594 (16122308)	7.05892 (20022108)	7.72216 (20022108)
3861600.3	7.82670 (20010318)	7.46955 (16122308)	7.21070 (16122308)	7.02819 (20022108)	7.71499 (20022108)
3861575.2	7.80781 (20010318)	7.49740 (16122308)	7.20990 (16122308)	7.00486 (20022108)	7.70434 (20022108)
3861550.1	7.78732 (20010318)	7.49308 (16122308)	7.21392 (16122308)	6.97822 (20022108)	7.69305 (20022108)
3861524.9	7.77085 (20010318)	7.49321 (16122308)	7.22300 (16122308)	6.98359 (16122308)	7.67823 (20022108)
3861499.8	7.77382 (16122308)	7.49226 (16122308)	7.23165 (16122308)	6.98494 (16122308)	7.67431 (20022108)
3861474.6	7.78812 (16122308)	7.49056 (16122308)	7.22863 (16122308)	6.97532 (16122308)	7.66687 (20022108)
3861449.5	7.81410 (16122308)	7.50664 (16122308)	7.23096 (16122308)	6.98122 (16122308)	7.63554 (20022108)
3861424.4	7.79333 (16122308)	7.51020 (16122308)	7.22730 (16122308)	6.96541 (16122308)	7.62090 (20022108)
3861399.2	7.78496 (16122308)	7.50124 (16122308)	7.21760 (16122308)	6.97575 (16122308)	7.59981 (20022108)
3861374.1	7.78937 (16122308)	7.50424 (16122308)	7.21897 (16122308)	6.97491 (16122308)	7.58375 (20022108)
3861348.9	7.79352 (16122308)	7.50086 (16122308)	7.21997 (16122308)	6.95742 (16122308)	7.56984 (20022108)
3861323.8	7.79746 (16122308)	7.49719 (16122308)	7.22056 (16122308)	6.94993 (16122308)	7.54945 (20022108)
3861298.7	7.81449 (16122308)	7.53632 (16122308)	7.21494 (16122308)	6.98987 (16122308)	7.55444 (20022108)
3861273.5	7.82470 (16122308)	7.52595 (16122308)	7.22605 (16122308)	6.97550 (16122308)	7.53838 (20022108)
3861248.4	7.84134 (16122308)	7.58272 (16122308)	7.23083 (16122308)	6.96549 (16122308)	7.52452 (20022108)
3861223.2	7.87758 (16122308)	7.62648 (16122308)	7.24073 (16122308)	6.97047 (16122308)	7.50992 (20022108)
3861198.1	7.91997 (16122308)	7.62129 (16122308)	7.25563 (16122308)	6.96890 (16122308)	7.48565 (20022108)
3861173.0	7.93572 (16122308)	7.60947 (16122308)	7.26395 (16122308)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 490876.50
3861675.8	8.00461 (20022108)
3861650.6	8.04326 (20022108)
3861625.5	8.04103 (20022108)
3861600.3	8.03547 (20022108)
3861575.2	8.03536 (20022108)
3861550.1	8.03483 (20022108)
3861524.9	8.03681 (20022108)
3861499.8	8.04132 (20022108)
3861474.6	8.04840 (20022108)
3861449.5	8.05213 (20022108)
3861424.4	8.03760 (20022108)
3861399.2	8.04041 (20022108)
3861374.1	8.03980 (20022108)
3861348.9	8.04172 (20022108)
3861323.8	8.04619 (20022108)
3861298.7	8.04720 (20022108)
3861273.5	8.04469 (20022108)
3861248.4	8.04775 (20022108)
3861223.2	8.05033 (20022108)

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0001073   , L0001074 , L0001075   , L0001076   , L0001077   ,
                  L0001078   , L0001079   , L0001080   , L0001081   , L0001082 , L0001083   , L0001084   , L0001085   ,
                  L0001086   , L0001087   , L0001088   , L0001089   , L0001090 , L0001091   , L0001092   , L0001093   ,
                  L0001094   , L0001095   , L0001096   , L0001097   , L0001098 , L0001099   , L0001100   , . . .   ,

                                   *** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 491611.20   491641.99   491672.78
      491703.57   491734.36
 - - -

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    4.98327 (16010507)      4.94520 (16010507)
 3861428.5 |      5.12211 (16010507)      5.07501 (16010507)      5.03891 (16010507)
    4.99869 (16010507)      4.95833 (16010507)
 3861399.0 |      5.14035 (16010507)      5.09045 (16010507)      5.05205 (16010507)
    5.00615 (16010507)      4.96787 (16010507)
 3861369.6 |      5.14566 (16010507)      5.09774 (16010507)      5.05777 (16010507)
    5.01398 (20120718)      4.97622 (20120718)
 3861340.1 |      5.14725 (16010507)      5.10727 (20120718)      5.06747 (20120718)
    5.02741 (20120718)      4.98726 (20120718)
 3861310.7 |      5.16222 (20120718)      5.11606 (20120718)      5.07397 (20120718)
    5.03199 (20120718)      4.99022 (20120718)
 3861281.2 |      5.17617 (20120718)      5.12800 (20120718)      5.08025 (20120718)
    5.04084 (20120718)      4.99788 (20120718)
 3861251.8 |      5.18608 (20120718)      5.13654 (20120718)      5.08764 (20120718)
    5.04728 (20120718)      4.99964 (20120718)
 3861222.3 |      5.19323 (20120718)      5.14276 (20120718)      5.09309 (20120718)
    5.04816 (20120718)      5.00391 (20120718)
 3861192.9 |      5.19440 (20120718)      5.14747 (20120718)      5.10530 (20120718)
    5.05980 (20120718)      5.00729 (20120718)
 3861163.4 |      5.19855 (20120718)      5.15530 (20120718)      5.12072 (20120718)
    5.07078 (20120718)      5.01398 (20120718)
 3861134.0 |      5.19365 (20120718)      5.16660 (20120718)      5.12762 (20120718)
    5.07737 (20120718)      5.02028 (20120718)
 3861104.5 |      5.19660 (20120718)      5.16117 (20120718)      5.11813 (20120718)
    5.07181 (20120718)      5.02242 (20120718)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 664
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                  INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                  L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                  L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                  L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                   *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
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Y-COORD (METERS)	X-COORD (METERS)				
	491765.15	491795.94	491826.73	491857.52	491888.31
3861693.5	4.53604 (16010507)	4.54885 (16010507)	4.55930 (16010507)	4.56475 (16010507)	4.55321 (16010507)
3861664.1	4.63412 (16010507)	4.63319 (16010507)	4.62443 (16010507)	4.60845 (16010507)	4.59868 (16010507)
3861634.6	4.70156 (16010507)	4.70487 (16010507)	4.68445 (16010507)	4.65768 (16010507)	4.63487 (16010507)
3861605.2	4.77031 (16010507)	4.75582 (16010507)	4.73175 (16010507)	4.70536 (16010507)	4.68032 (16010507)
3861575.7	4.81550 (16010507)	4.79467 (16010507)	4.76494 (16010507)	4.73360 (16010507)	4.71088 (16010507)
3861546.3	4.85289 (16010507)	4.83039 (16010507)	4.79610 (16010507)	4.76753 (16010507)	4.73471 (16010507)
3861516.8	4.87406 (16010507)	4.84072 (16010507)	4.80999 (16010507)	4.77517 (16010507)	4.74995 (16010507)
3861487.4	4.89144 (16010507)	4.85510 (16010507)	4.81837 (16010507)	4.78142 (16010507)	4.75112 (16010507)
3861457.9	4.90321 (16010507)	4.86466 (16010507)	4.82955 (16010507)	4.79098 (16010507)	4.75258 (16010507)
3861428.5	4.91798 (16010507)	4.87775 (16010507)	4.83774 (16010507)	4.79987 (20120718)	4.76191 (20120718)
3861399.0	4.92783 (20120718)	4.88826 (20120718)	4.84839 (20120718)	4.81194 (20120718)	4.77538 (20120718)
3861369.6	4.94186 (20120718)	4.89984 (20120718)	4.86152 (20120718)	4.82326 (20120718)	4.78869 (20120718)
3861340.1	4.94713 (20120718)	4.90714 (20120718)	4.87466 (20120718)	4.82787 (20120718)	4.79934 (20120718)
3861310.7	4.95253 (20120718)	4.91135 (20120718)	4.87424 (20120718)	4.83025 (20120718)	4.79749 (20120718)
3861281.2	4.95540 (20120718)	4.91342 (20120718)	4.87198 (20120718)	4.83471 (20120718)	4.79431 (20120718)
3861251.8	4.95654 (20120718)	4.91404 (20120718)	4.87584 (20120718)	4.83451 (20120718)	4.79023 (20120718)
3861222.3	4.95653 (20120718)	4.91368 (20120718)	4.87520 (20120718)	4.83725 (20120718)	4.79268 (20120718)
3861192.9	4.95957 (20120718)	4.91268 (20120718)	4.87769 (20120718)	4.84314 (20120718)	4.80545 (20120718)
3861163.4	4.96212 (20120718)	4.92627 (20120718)	4.88350 (20120718)	4.84870 (20120718)	4.81077 (20120718)
3861134.0	4.96815 (20120718)	4.93957 (20120718)	4.88163 (20120718)	4.84308 (20120718)	4.79793 (20120718)
3861104.5	4.97009 (20120718)	4.91499 (20120718)	4.87211 (20120718)	4.83358 (20120718)	4.79203 (20120718)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1   ***
                            INCLUDING SOURCE(S):   L0001073   , L0001074
, L0001075   , L0001076   , L0001077   ,
                L0001078   , L0001079   , L0001080   , L0001081   , L0001082
, L0001083   , L0001084   , L0001085   ,
                L0001086   , L0001087   , L0001088   , L0001089   , L0001090
, L0001091   , L0001092   , L0001093   ,
                L0001094   , L0001095   , L0001096   , L0001097   , L0001098
, L0001099   , L0001100   , . . .   ,

                             *** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 491919.10   491949.89   491980.68
      492011.47   492042.26
 -
- -

 3861693.5 | 4.51278 (16010507)   4.50373 (16010507)   4.48861 (16010507)
     4.47100 (16010507)   4.45123 (16010507)
 3861664.1 | 4.57627 (16010507)   4.55768 (16010507)   4.54621 (16010507)
     4.52649 (16010507)   4.50210 (16010507)
 3861634.6 | 4.61628 (16010507)   4.59885 (16010507)   4.57653 (16010507)
     4.55590 (16010507)   4.53099 (16010507)
 3861605.2 | 4.65364 (16010507)   4.62881 (16010507)   4.59967 (16010507)
     4.56967 (16010507)   4.54518 (16010507)
 3861575.7 | 4.67713 (16010507)   4.64584 (16010507)   4.62026 (16010507)
     4.58464 (16010507)   4.56424 (16010507)
 3861546.3 | 4.70127 (16010507)   4.66739 (16010507)   4.63323 (16010507)
     4.61145 (16010507)   4.57383 (16010507)
 3861516.8 | 4.71432 (16010507)   4.67533 (16010507)   4.63640 (16010507)
     4.61657 (16010507)   4.58202 (20120718)
 3861487.4 | 4.71732 (16010507)   4.68355 (16010507)   4.64576 (20120718)
     4.61766 (20120718)   4.59874 (20120718)
 3861457.9 | 4.72153 (20120718)   4.68866 (20120718)   4.66210 (20120718)
     4.62855 (20120718)   4.61107 (20120718)
 3861428.5 | 4.73064 (20120718)   4.69910 (20120718)   4.66739 (20120718)
     4.63231 (20120718)   4.61362 (20120718)
 3861399.0 | 4.74228 (20120718)   4.70917 (20120718)   4.67275 (20120718)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 ,
L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 ,
L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)
492073.05	492103.84
492134.63	492165.42
492196.21	

- - - -

- -

3861693.5	4.41763 (16010507)	4.39168 (16010507)	4.36747 (16010507)	4.34223 (16010507)	4.31327 (16010507)
3861664.1	4.44015 (16010507)	4.41083 (16010507)	4.38666 (16010507)	4.35884 (16010507)	4.33050 (16010507)
3861634.6	4.49308 (16010507)	4.43668 (16010507)	4.39820 (16010507)	4.35663 (16010507)	4.34418 (16010507)
3861605.2	4.50791 (16010507)	4.47344 (16010507)	4.42695 (16010507)	4.37477 (16010507)	4.34930 (16010507)
3861575.7	4.54328 (16010507)	4.48594 (16010507)	4.45888 (16010507)	4.39941 (16010507)	4.35734 (20120718)
3861546.3	4.52715 (16010507)	4.48995 (16010507)	4.46358 (20120718)	4.42852 (20120718)	4.39626 (20120718)
3861516.8	4.53295 (20120718)	4.50582 (20120718)	4.47208 (20120718)	4.44738 (20120718)	4.41034 (20120718)
3861487.4	4.54737 (20120718)	4.51203 (20120718)	4.47982 (20120718)	4.45068 (20120718)	4.41850 (20120718)
3861457.9	4.55477 (20120718)	4.52122 (20120718)	4.48778 (20120718)	4.45451 (20120718)	4.42146 (20120718)
3861428.5	4.56575 (20120718)	4.52794 (20120718)	4.49049 (20120718)	4.45958 (20120718)	4.42685 (20022720)
3861399.0	4.56822 (20120718)	4.52971 (20120718)	4.49494 (20022720)	4.46457 (20022720)	4.43120 (20022720)
3861369.6	4.56272 (20120718)	4.52700 (20120718)	4.49908 (20022720)	4.46486 (20022720)	4.43426 (20022720)
3861340.1	4.56915 (20022720)	4.53370 (20022720)	4.49869 (20022720)	4.46411 (20022720)	4.43320 (20022720)
3861310.7	4.57196 (20022720)	4.53951 (20022720)	4.50079 (20022720)	4.46591 (20022720)	4.42828 (20022720)
3861281.2	4.56715 (20022720)	4.53452 (20022720)	4.49898 (20022720)	4.46064 (20022720)	4.42614 (20022720)
3861251.8	4.56865 (20022720)	4.52905 (20022720)	4.49341 (20022720)	4.45828 (20022720)	4.42042 (20022720)
3861222.3	4.56978 (20022720)	4.53339 (20022720)	4.49420 (20022720)	4.45893 (20022720)	4.42091 (20022720)
3861192.9	4.57070 (20120718)	4.53747 (20022720)	4.50143 (20022720)	4.46263 (20022720)	4.42119 (20022720)
3861163.4	4.57151 (20120718)	4.54132 (20022720)	4.50176 (20022720)	4.46283 (20022720)	4.42128 (20022720)
3861134.0	4.56887 (20120718)	4.53483 (20120718)	4.49521 (20022720)	4.45956 (20022720)	4.42768 (20022720)
3861104.5	4.56606 (20120718)	4.52872 (20120718)	4.49193 (20120718)	4.45610 (20022720)	4.42741 (20022720)

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                  INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                  L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                  L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                  L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                   *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       492227.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3861693.5 |      4.28941 (16010507)
 3861664.1 |      4.30465 (16010507)
 3861634.6 |      4.31108 (16010507)
 3861605.2 |      4.31510 (16010507)
 3861575.7 |      4.33008 (20120718)
 3861546.3 |      4.35785 (20120718)
 3861516.8 |      4.37937 (20120718)
 3861487.4 |      4.38645 (20120718)
 3861457.9 |      4.39229 (20022720)
 3861428.5 |      4.39443 (20022720)
 3861399.0 |      4.40133 (20022720)
 3861369.6 |      4.40397 (20022720)
 3861340.1 |      4.40583 (20022720)
 3861310.7 |      4.40077 (20022720)
 3861281.2 |      4.39530 (20022720)
 3861251.8 |      4.38633 (20022720)
 3861222.3 |      4.38030 (20022720)
 3861192.9 |      4.38045 (20022720)
 3861163.4 |      4.38362 (20022720)
 3861134.0 |      4.39302 (20022720)
 3861104.5 |      4.39266 (20022720)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 ,
L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 ,
L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488802.97	3861310.09	22.89931	(19122903)	488863.58	3861309.29	24.76180	(16020222)
488847.63	3861279.78	24.18028	(16020222)	488850.82	3861262.24	24.35700	(16020222)
488810.14	3861261.44	23.23846	(19122903)	488810.94	3861289.36	23.13830	(19122903)
488819.72	3861306.90	23.25678	(19122903)	488816.53	3861235.92	23.48993	(19122903)
488841.25	3861126.66	25.15971	(19122903)	488879.53	3861121.88	26.55744	(19122903)
488913.82	3861121.08	28.41889	(16020222)	488925.79	3861092.37	29.58992	(18010720)
488920.03	3861067.49	29.80755	(16020222)	488996.74	3861113.92	33.51820	(16122819)
488974.03	3861097.77	32.64223	(18010720)	488931.63	3860976.64	30.22892	(16020222)
488935.67	3861034.68	31.09110	(16020222)	488959.90	3861061.43	32.94994	(18010720)
489165.81	3861208.80	35.45400	(19121703)	489317.74	3861109.28	36.12245	(19121219)
489385.87	3861014.75	32.61982	(19010903)	489372.24	3861112.69	32.50401	(16020720)
489420.79	3861106.73	28.77079	(16020722)	489436.12	3861037.74	28.40423	(16020722)
489488.07	3861036.89	24.39227	(16020722)	489473.59	3861110.99	25.62132	(16020722)

```
        489431.01   3861167.20       27.54248  (16020722)                489662.66
3860915.95       16.75736  (18120822)
        489644.78   3861076.07       17.29690  (18120822)                489659.26
3861099.06       16.85483  (18120822)
        489735.91   3861020.71       14.83877  (18120822)                489700.14
3861029.23       15.79326  (18120822)
        489708.65   3861062.44       15.59705  (18120822)                489779.34
3861099.06       13.95197  (19122119)
        489835.95   3859138.59       27.93082  (16021019)                489885.95
3859138.59       29.31703  (20112808)
        489935.95   3859138.59       29.78783  (20112808)                489985.95
3859138.59       29.39601  (18010108)
        490035.95   3859138.59       32.17958  (19011604)                490085.95
3859138.59       34.50670  (16012202)
        490135.95   3859138.59       34.91944  (16012202)                490185.95
3859138.59       37.27882  (16010123)
        490235.95   3859138.59       38.66352  (16120421)                490285.95
3859138.59       41.60909  (16120117)
        490335.95   3859138.59       41.22916  (20120306)                490385.95
3859138.59       43.84154  (19120419)
        490435.95   3859138.59       41.96907  (19120419)                490485.95
3859138.59       43.81266  (18021719)
        490535.95   3859138.59       41.73333  (18020417)                490585.95
3859138.59       39.13072  (18012322)
        490635.95   3859138.59       36.76679  (18012319)                490685.95
3859138.59       32.84597  (19122023)
        490735.95   3859138.59       30.94049  (15010419)                490785.95
3859138.59       27.80060  (18011624)
        490835.95   3859138.59       25.71859  (18012323)                490885.95
3859138.59       23.70387  (16012904)
        489835.95   3859188.59       28.37306  (20112808)                489885.95
3859188.59       28.58095  (18010108)
        489935.95   3859188.59       28.05204  (18010108)                489985.95
3859188.59       30.68305  (19011604)
        490035.95   3859188.59       32.73773  (16012202)                490085.95
3859188.59       33.24807  (16012202)
        490135.95   3859188.59       35.32811  (16010123)                490185.95
3859188.59       36.91621  (16120421)
        490235.95   3859188.59       38.79946  (16120117)                490285.95
3859188.59       38.82420  (16120117)
        490335.95   3859188.59       41.20221  (20120306)                490385.95
3859188.59       41.25302  (19120419)
        490435.95   3859188.59       41.89736  (18021719)                490485.95
3859188.59       41.83774  (18020417)
        490535.95   3859188.59       38.01676  (18012322)                490585.95
3859188.59       37.44097  (19012517)
        490635.95   3859188.59       33.72528  (18012319)                490685.95
3859188.59       31.07598  (19122023)
        490735.95   3859188.59       28.37909  (15010419)                490785.95
3859188.59       26.32217  (18011624)
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0001073   , L0001074
, L0001075   , L0001076   , L0001077   ,
                L0001078   , L0001079   , L0001080   , L0001081   , L0001082
, L0001083   , L0001084   , L0001085   ,
                L0001086   , L0001087   , L0001088   , L0001089   , L0001090
, L0001091   , L0001092   , L0001093   ,
                L0001094   , L0001095   , L0001096   , L0001097   , L0001098
, L0001099   , L0001100   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        489935.95   3859238.59   29.33808 (19011604)   489985.95
3859238.59   31.46143 (16012202)
        490035.95   3859238.59   32.19544 (16012202)   490085.95
3859238.59   33.52195 (16010123)
        490135.95   3859238.59   34.85336 (16120421)   490185.95
3859238.59   35.50684 (16120117)
        490235.95   3859238.59   37.37106 (16120117)   490285.95
3859238.59   38.73226 (20120306)
        490335.95   3859238.59   39.61486 (19120419)   490385.95
3859238.59   38.56654 (18021719)
        490435.95   3859238.59   39.55758 (18020417)   490485.95
3859238.59   36.46881 (16012123)
        490535.95   3859238.59   35.79203 (19012517)   490585.95
3859238.59   33.80121 (18012319)
        490635.95   3859238.59   30.57481 (19122023)   490685.95
3859238.59   29.26630 (15010419)
        490735.95   3859238.59   26.47059 (18011624)   490785.95

3859238.59 24.81139 (18012323)
490835.95 3859238.59 22.34335 (18012323) 490885.95
3859238.59 20.23297 (16121423)
489835.95 3859288.59 26.01018 (18010108) 489885.95
3859288.59 28.22595 (19011604)
489935.95 3859288.59 29.92377 (16012202) 489985.95
3859288.59 31.13996 (16012202)
490035.95 3859288.59 32.14086 (16010123) 490085.95
3859288.59 33.33123 (16120421)
490135.95 3859288.59 33.57531 (15012821) 490185.95
3859288.59 35.61505 (16120117)
490235.95 3859288.59 35.64496 (20120306) 490285.95
3859288.59 36.90054 (19120419)
490335.95 3859288.59 35.46501 (19120419) 490385.95
3859288.59 37.47535 (18021719)
490435.95 3859288.59 37.06134 (18020417) 490485.95
3859288.59 34.33826 (18012322)
490535.95 3859288.59 33.64490 (19012517) 490585.95
3859288.59 30.77192 (18012319)
490635.95 3859288.59 28.97822 (19122023) 490685.95
3859288.59 27.23759 (15010419)
490735.95 3859288.59 25.37059 (18011624) 490785.95
3859288.59 23.59301 (18012323)
490835.95 3859288.59 20.83355 (16012904) 490885.95
3859288.59 19.77402 (16121423)
489835.95 3859338.59 27.17072 (19011604) 489885.95
3859338.59 28.56191 (16012202)
489935.95 3859338.59 29.76373 (16012202) 489985.95
3859338.59 30.56057 (16010123)
490035.95 3859338.59 31.64269 (16120421) 490085.95
3859338.59 31.80316 (15012821)
490135.95 3859338.59 33.86989 (16120117) 490185.95
3859338.59 32.98235 (18031020)
490235.95 3859338.59 34.68421 (20120306) 490285.95
3859338.59 34.74643 (19120419)
490335.95 3859338.59 35.20774 (18021719) 490385.95
3859338.59 35.62345 (18020417)
490435.95 3859338.59 32.55518 (16012123) 490485.95
3859338.59 32.28870 (19012517)
490535.95 3859338.59 30.46188 (18012319) 490585.95
3859338.59 27.74203 (19122023)
490635.95 3859338.59 26.98938 (15010419) 490685.95
3859338.59 24.67345 (18011624)
490735.95 3859338.59 23.74131 (18011624) 490785.95
3859338.59 21.98581 (18012323)
490835.95 3859338.59 19.63751 (16121423) 490885.95
3859338.59 19.10148 (16121423)
489835.95 3859388.59 27.59371 (16012202) 489885.95
3859388.59 28.60934 (16012202)
489935.95 3859388.59 28.89408 (16010123) 489985.95

3859388.59   29.96329 (16120421)
        490035.95   3859388.59   30.45060 (16120421)   490085.95
3859388.59   31.95776 (16120117)
        490135.95   3859388.59   31.26732 (16120117)   490185.95
3859388.59   33.02599 (20120306)
        490235.95   3859388.59   33.46970 (19120419)   490285.95
3859388.59   32.11479 (18021719)
        490335.95   3859388.59   33.12507 (18020417)   490385.95
3859388.59   31.98300 (18020417)
        490435.95   3859388.59   30.51628 (18012322)   490485.95
3859388.59   30.09982 (19012517)
        490535.95   3859388.59   27.68824 (18012319)   490585.95
3859388.59   26.32255 (19122023)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1   ***
                                   INCLUDING SOURCE(S):   L0001073   , L0001074 , L0001075   , L0001076   , L0001077   ,
                L0001078   , L0001079   , L0001080   , L0001081   , L0001082 , L0001083   , L0001084   , L0001085   ,
                L0001086   , L0001087   , L0001088   , L0001089   , L0001090 , L0001091   , L0001092   , L0001093   ,
                L0001094   , L0001095   , L0001096   , L0001097   , L0001098 , L0001099   , L0001100   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        490635.95   3859388.59   25.20927 (15010419)   490685.95
3859388.59   23.73670 (18011624)
        490735.95   3859388.59   22.61020 (18012323)   490785.95
3859388.59   20.31097 (16012904)
        490835.95   3859388.59   18.99571 (16121423)   490885.95
3859388.59   18.22079 (16121423)
        489835.95   3859438.59   27.49983 (16012202)   489885.95
3859438.59   27.52450 (16010123)

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        489935.95   3859438.59       28.74606  (16010123)               489985.95
3859438.59       29.45511  (16120421)
        490035.95   3859438.59       30.16115  (16120117)               490085.95
3859438.59       30.69569  (16120117)
        490135.95   3859438.59       31.09812  (20120306)               490185.95
3859438.59       31.73448  (19120419)
        490235.95   3859438.59       30.12569  (19120419)               490285.95
3859438.59       31.58704  (18021719)
        490335.95   3859438.59       31.66928  (18020417)               490385.95
3859438.59       28.79670  (18012322)
        490435.95   3859438.59       29.00859  (19012517)               490485.95
3859438.59       27.37444  (18012319)
        490535.95   3859438.59       24.95486  (19122023)               490585.95
3859438.59       24.55185  (15010419)
        490635.95   3859438.59       22.99553  (15010419)               490685.95
3859438.59       22.18122  (18011624)
        490735.95   3859438.59       20.88976  (18012323)               490785.95
3859438.59       18.93051  (16012904)
        490835.95   3859438.59       18.25571  (16121423)               490885.95
3859438.59       17.27569  (16121423)
        490085.95   3859488.59       29.05545  (20120306)               490135.95
3859488.59       29.93569  (20120306)
        490185.95   3859488.59       29.90455  (19120419)               490235.95
3859488.59       29.80912  (18021719)
        490285.95   3859488.59       30.35301  (18020417)               490335.95
3859488.59       27.96678  (18020417)
        490385.95   3859488.59       27.54663  (18012322)               490435.95
3859488.59       27.17426  (19012517)
        490485.95   3859488.59       25.14243  (18012319)               490535.95
3859488.59       24.04910  (19122023)
        490585.95   3859488.59       23.24033  (15010419)               490635.95
3859488.59       21.66515  (18011624)
        490685.95   3859488.59       20.81500  (18012323)               490735.95
3859488.59       19.33337  (18012323)
        490785.95   3859488.59       17.65375  (16121423)               490835.95
3859488.59       17.43558  (16121423)
        490885.95   3859488.59       16.34256  (16121423)               490085.95
3859538.59       29.05928  (20120306)
        490135.95   3859538.59       29.25110  (19120419)               490185.95
3859538.59       27.65697  (18021719)
        490235.95   3859538.59       28.33494  (18021719)               490285.95
3859538.59       28.28371  (18020417)
        490335.95   3859538.59       26.32299  (18012322)               490385.95
3859538.59       26.41435  (19012517)
        490435.95   3859538.59       24.90542  (18012319)               490485.95
3859538.59       22.69582  (19122023)
        490535.95   3859538.59       22.46246  (15010419)               490585.95
3859538.59       21.45801  (15010419)
        490635.95   3859538.59       20.62106  (18011624)               490685.95
3859538.59       19.66367  (18012323)
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        490735.95   3859538.59       18.06302  (16012904)                490785.95
3859538.59       17.06752  (16121423)
        490835.95   3859538.59       16.62775  (16121423)                490885.95
3859538.59       15.50644  (19122903)
        490135.95   3859588.59       26.48174  (19120419)                490185.95
3859588.59       27.67815  (18021719)
        490235.95   3859588.59       27.80044  (18020417)                490285.95
3859588.59       25.41455  (16012123)
        490335.95   3859588.59       25.02819  (18012322)                490385.95
3859588.59       24.68807  (19012517)
        490435.95   3859588.59       22.94023  (18012319)                490485.95
3859588.59       22.03740  (19122023)
        490535.95   3859588.59       21.46649  (15010419)                490585.95
3859588.59       19.88591  (18011624)
        490635.95   3859588.59       19.40377  (18011624)                490685.95
3859588.59       18.41744  (18012323)
        490735.95   3859588.59       16.89958  (16012904)                490785.95
3859588.59       16.49408  (16121423)
        490835.95   3859588.59       15.84373  (16121423)                490885.95
3859588.59       14.87871  (19122903)
        490135.95   3859638.59       26.69924  (18021719)                490185.95
3859638.59       26.52155  (18020417)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 671
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                  INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- -
490235.95 3859638.59 25.62489 (18020417) 490285.95
3859638.59 24.24639 (18012322)
490335.95 3859638.59 24.25029 (19012517) 490385.95
3859638.59 22.89569 (18012319)
490435.95 3859638.59 20.79638 (19121018) 490485.95
3859638.59 20.80185 (19122023)
490535.95 3859638.59 20.06409 (15010419) 490585.95
3859638.59 19.19208 (18011624)
490635.95 3859638.59 18.53178 (18012323) 490685.95
3859638.59 17.23418 (16012904)
490735.95 3859638.59 15.87683 (16111005) 490785.95
3859638.59 15.87819 (16121423)
490835.95 3859638.59 15.02772 (16121423) 490885.95
3859638.59 14.22653 (19122903)
490135.95 3859688.59 25.61875 (18021719) 490185.95
3859688.59 25.73422 (18020417)
490235.95 3859688.59 23.49867 (16012123) 490285.95
3859688.59 23.31491 (19012517)
490335.95 3859688.59 22.88308 (19012517) 490385.95
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3859688.59 20.01192 (15010419)
490535.95 3859688.59 18.50302 (18122219) 490585.95
3859688.59 18.29799 (18011624)
490635.95 3859688.59 17.58347 (18012323) 490685.95
3859688.59 16.32073 (16012904)
490735.95 3859688.59 15.48826 (16121423) 490785.95
3859688.59 15.25301 (16121423)
490835.95 3859688.59 14.23201 (16121423) 490885.95
3859688.59 13.57697 (19122903)
490085.95 3859738.59 25.08255 (18021719) 490135.95
3859738.59 25.20757 (18020417)
490185.95 3859738.59 23.29578 (18020417) 490235.95
3859738.59 22.72037 (18012322)
490285.95 3859738.59 22.74027 (19012517) 490335.95
3859738.59 21.27478 (18012319)
490385.95 3859738.59 19.58657 (19121018) 490435.95
3859738.59 19.55312 (19122023)
490485.95 3859738.59 19.02627 (15010419) 490535.95
3859738.59 17.97780 (18011624)
490585.95 3859738.59 17.46231 (18012323) 490635.95
3859738.59 16.51871 (18012323)
490685.95 3859738.59 15.31870 (16012904) 490735.95
3859738.59 14.99209 (16121423)
490785.95 3859738.59 14.51539 (16121423) 490835.95
3859738.59 13.62396 (19122903)
490885.95 3859738.59 12.99997 (19122903) 490085.95
3859788.59 24.15349 (18020417)
490135.95 3859788.59 23.94628 (18020417) 490185.95

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3859788.59       21.94985  (18012322)
        490235.95   3859788.59       21.86969  (19012517)                490285.95
3859788.59       21.24601  (19012517)
        490335.95   3859788.59       19.86471  (18012319)                490385.95
3859788.59       19.03090  (19122023)
        490435.95   3859788.59       18.72484  (15010419)                490485.95
3859788.59       17.52506  (15010419)
        490535.95   3859788.59       17.38739  (18011624)                490585.95
3859788.59       16.67039  (18012323)
        490635.95   3859788.59       15.66930  (16012904)                490685.95
3859788.59       14.49460  (16111005)
        490735.95   3859788.59       14.43405  (16121423)                490785.95
3859788.59       13.77740  (16121423)
        490835.95   3859788.59       13.10067  (19122903)                490885.95
3859788.59       12.50901  (19122903)
        490085.95   3859838.59       23.88146  (18020417)                490135.95
3859838.59       21.84353  (16012123)
        490185.95   3859838.59       21.54723  (18012322)                490235.95
3859838.59       21.47734  (19012517)
        490285.95   3859838.59       20.14874  (18012319)                490335.95
3859838.59       18.33011  (19121018)
        490385.95   3859838.59       18.39297  (19122023)                490435.95
3859838.59       17.91089  (15010419)
        490485.95   3859838.59       16.81038  (18011624)                490535.95
3859838.59       16.45684  (18011624)
        490585.95   3859838.59       15.84744  (18012323)                490635.95
3859838.59       14.78994  (16012904)
        490685.95   3859838.59       13.92961  (16121423)                490735.95
3859838.59       13.90591  (16121423)
        490785.95   3859838.59       13.16294  (16121423)                490835.95
3859838.59       12.65246  (19122903)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 672
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                   INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490885.95	3859838.59	11.97042	(16020222)	490085.95	3859888.59	22.22511	(18020417)
490135.95	3859888.59	20.95014	(18012322)	490185.95	3859888.59	20.89961	(19012517)
490235.95	3859888.59	20.14278	(19012517)	490285.95	3859888.59	18.90697	(18012319)
490335.95	3859888.59	18.13601	(19122023)	490385.95	3859888.59	17.75562	(15010419)
490435.95	3859888.59	16.78841	(15010419)	490485.95	3859888.59	16.35051	(18011624)
490535.95	3859888.59	15.84397	(18012323)	490585.95	3859888.59	14.96597	(16012904)
490635.95	3859888.59	13.93166	(16012904)	490685.95	3859888.59	13.66322	(16121423)
490735.95	3859888.59	13.32714	(16121423)	490785.95	3859888.59	12.45902	(19122903)
490835.95	3859888.59	12.05901	(19122903)	490885.95	3859888.59	11.57766	(16020222)
490135.95	3859938.59	20.38577	(18012322)	490185.95	3859938.59	20.35394	(19012517)
490235.95	3859938.59	19.17471	(18012319)	490285.95	3859938.59	17.52447	(19121018)
490335.95	3859938.59	17.60384	(19122023)	490385.95	3859938.59	17.15218	(15010419)
490435.95	3859938.59	15.86003	(18011624)	490485.95	3859938.59	15.70123	(18011624)
490535.95	3859938.59	15.20945	(18012323)	490585.95	3859938.59	14.31299	(16012904)
490635.95	3859938.59	13.25905	(16111005)	490685.95	3859938.59	13.38481	(16121423)
490735.95	3859938.59	12.88980	(16121423)	490785.95	3859938.59	12.19168	(19122903)
490835.95	3859938.59	11.63929	(19122903)	490885.95	3859938.59	10.98701	(16020222)
490135.95	3859988.59	19.93055	(19012517)	490185.95	3859988.59	19.08586	(19012517)
490235.95	3859988.59	18.09913	(18012319)	490285.95	3859988.59	17.37433	(19122023)
490335.95	3859988.59	17.01158	(15010419)	490385.95	3859988.59	16.24991	(15010419)

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        490435.95   3859988.59       15.62166  (18011624)                490485.95
3859988.59       15.10346  (18012323)
        490535.95   3859988.59       14.41406  (18012323)                490585.95
3859988.59       13.54826  (16012904)
        490635.95   3859988.59       12.89959  (16121423)                490685.95
3859988.59       12.98108  (16121423)
        490735.95   3859988.59       12.28508  (16121423)                490785.95
3859988.59       11.79020  (19122903)
        490835.95   3859988.59       11.13093  (19122903)                490885.95
3859988.59       10.67714  (16020222)
        490135.95   3860038.59       19.37804  (19012517)                490185.95
3860038.59       18.30351  (18012319)
        490235.95   3860038.59       16.79401  (19121018)                490285.95
3860038.59       16.92074  (19122023)
        490335.95   3860038.59       16.55349  (15010419)                490385.95
3860038.59       15.31499  (18122219)
        490435.95   3860038.59       15.18785  (18011624)                490485.95
3860038.59       14.66570  (18012323)
        490535.95   3860038.59       13.76921  (16012904)                490585.95
3860038.59       12.76059  (16012904)
        490635.95   3860038.59       12.55915  (16121423)                490685.95
3860038.59       12.37331  (16121423)
        490735.95   3860038.59       11.69191  (19122903)                490785.95
3860038.59       11.37623  (19122903)
        490835.95   3860038.59       10.75293  (16020222)                490885.95
3860038.59       10.35003  (16020222)
        490135.95   3860088.59       18.13266  (19012517)                490185.95
3860088.59       17.29370  (18012319)
        490235.95   3860088.59       16.61502  (19122023)                490285.95
3860088.59       16.28026  (15010419)
        490335.95   3860088.59       15.77283  (15010419)                490385.95
3860088.59       15.00907  (18011624)
        490435.95   3860088.59       14.56547  (18011624)                490485.95
3860088.59       14.06719  (18012323)
        490535.95   3860088.59       13.20832  (16012904)                490585.95
3860088.59       12.31605  (16111005)
        490635.95   3860088.59       12.30189  (16121423)                490685.95
3860088.59       11.90180  (16121423)
        490735.95   3860088.59       11.29989  (19122903)                490785.95
3860088.59       10.93766  (19122903)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 673
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
```

INCLUDING SOURCE(S): L0001073 , L0001074
, L0001075 , L0001076 , L0001077 ,
L0001078 , L0001079 , L0001080 , L0001081 , L0001082
, L0001083 , L0001084 , L0001085 ,
L0001086 , L0001087 , L0001088 , L0001089 , L0001090
, L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098
, L0001099 , L0001100 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490835.95	3860088.59	10.42691	(16020222)	490885.95	3860088.59	10.00086	(16020222)
490135.95	3860138.59	17.47519	(18012319)	490185.95	3860138.59	16.10941	(19121018)
490235.95	3860138.59	16.26126	(19122023)	490285.95	3860138.59	15.91738	(15010419)
490335.95	3860138.59	14.79395	(18122219)	490385.95	3860138.59	14.70475	(18011624)
490435.95	3860138.59	14.19938	(18012323)	490485.95	3860138.59	13.36871	(18012323)
490535.95	3860138.59	12.59957	(16012904)	490585.95	3860138.59	12.02355	(16111005)
490635.95	3860138.59	12.00901	(16121423)	490685.95	3860138.59	11.40812	(16121423)
490735.95	3860138.59	10.95433	(19122903)	490785.95	3860138.59	10.49335	(19122903)
490835.95	3860138.59	10.10894	(16020222)	490885.95	3860138.59	9.62339	(16020222)
490935.95	3860138.59	9.14009	(18010720)	490985.95	3860138.59	8.76333	(16122819)
491035.95	3860138.59	8.79982	(20022108)	490135.95	3860188.59	16.46415	(18012319)
490185.95	3860188.59	15.87932	(19122023)	490235.95	3860188.59	15.56149	(15010419)
490285.95	3860188.59	15.26853	(15010419)	490335.95	3860188.59	14.37230	(18011624)
490385.95	3860188.59	14.19485	(18011624)	490435.95	3860188.59	13.76658	(18012323)
490485.95	3860188.59	12.91498	(16012904)	490535.95	3860188.59	11.91323	(16012904)
490585.95	3860188.59	11.86461	(16121423)	490635.95			

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3860188.59       11.67627  (16121423)
        490685.95   3860188.59       10.94204  (16121423)                490735.95
3860188.59       10.64778  (19122903)
        490785.95   3860188.59       10.06356  (19122903)                490835.95
3860188.59        9.81545  (16020222)
        490885.95   3860188.59        9.31259  (18010720)                490935.95
3860188.59        8.85877  (18010720)
        490985.95   3860188.59        8.57518  (20022108)                491035.95
3860188.59        8.72956  (20022108)
        491085.95   3860188.59        8.72852  (20022108)                491135.95
3860188.59        8.69313  (20022108)
        490135.95   3860238.59       15.38216  (19121018)                490185.95
3860238.59       15.60612  (19122023)
        490235.95   3860238.59       15.30132  (15010419)                490285.95
3860238.59       14.39452  (15010419)
        490335.95   3860238.59       14.18121  (18011624)                490385.95
3860238.59       13.73596  (18012323)
        490435.95   3860238.59       13.20499  (18012323)                490485.95
3860238.59       12.42425  (16012904)
        490535.95   3860238.59       11.65585  (16111005)                490585.95
3860238.59       11.66775  (16121423)
        490635.95   3860238.59       11.32365  (16121423)                490685.95
3860238.59       10.67882  (19122903)
        490735.95   3860238.59       10.36877  (19122903)                490785.95
3860238.59        9.83167  (16020222)
        490835.95   3860238.59        9.54005  (16020222)                490885.95
3860238.59        9.08976  (18010720)
        490935.95   3860238.59        8.62067  (18010720)                490985.95
3860238.59        8.60789  (20022108)
        491035.95   3860238.59        8.73434  (20022108)                491085.95
3860238.59        8.71183  (20022108)
        491135.95   3860238.59        8.65663  (20022108)                490135.95
3860288.59       15.13855  (19122023)
        490185.95   3860288.59       14.96647  (19122023)                490235.95
3860288.59       14.77678  (15010419)
        490285.95   3860288.59       13.78924  (18122219)                490335.95
3860288.59       13.79341  (18011624)
        490385.95   3860288.59       13.41752  (18012323)                490435.95
3860288.59       12.61280  (16012904)
        490485.95   3860288.59       11.86134  (16012904)                490535.95
3860288.59       11.41356  (16111005)
        490585.95   3860288.59       11.41827  (16121423)                490635.95
3860288.59       10.91499  (16121423)
        490685.95   3860288.59       10.46265  (19122903)                490735.95
3860288.59       10.06179  (19122903)
        490785.95   3860288.59        9.64958  (16020222)                490835.95
3860288.59        9.30301  (16020222)
        490885.95   3860288.59        8.88946  (18010720)                490935.95
3860288.59        8.46021  (16122819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1   ***
                                INCLUDING SOURCE(S):   L0001073   , L0001074
, L0001075   , L0001076   , L0001077   ,
                 L0001078   , L0001079   , L0001080   , L0001081   , L0001082
, L0001083   , L0001084   , L0001085   ,
                 L0001086   , L0001087   , L0001088   , L0001089   , L0001090
, L0001091   , L0001092   , L0001093   ,
                 L0001094   , L0001095   , L0001096   , L0001097   , L0001098
, L0001099   , L0001100   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        490985.95   3860288.59   8.59157 (20022108)   491035.95
3860288.59   8.70737 (20022108)
        491085.95   3860288.59   8.69218 (20022108)   490135.95
3860338.59   14.93856 (19122023)
        490185.95   3860338.59   14.67157 (15010419)   490235.95
3860338.59   14.01521 (15010419)
        490285.95   3860338.59   13.64540 (18011624)   490335.95
3860338.59   13.25777 (18011624)
        490385.95   3860338.59   12.95119 (18012323)   490435.95
3860338.59   12.20871 (16012904)
        490485.95   3860338.59   11.24269 (16111005)   490535.95
3860338.59   11.26980 (16121423)
        490585.95   3860338.59   11.15167 (16121423)   490635.95
3860338.59   10.49509 (16121423)
        490685.95   3860338.59   10.23045 (19122903)   490735.95
3860338.59   9.74005 (19122903)
        490785.95   3860338.59   9.47066 (16020222)   490835.95
3860338.59   9.06773 (16020222)
        490885.95   3860338.59   8.67893 (18010720)   490935.95
3860338.59   8.31137 (16122819)
        490985.95   3860338.59   8.55912 (20022108)   491035.95
3860338.59   8.66395 (20022108)

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        491085.95   3860338.59        8.65402  (20022108)              490135.95
3860388.59       14.40388  (19122023)
        490185.95   3860388.59       14.22237  (15010419)              490235.95
3860388.59       13.32402  (18122219)
        490285.95   3860388.59       13.35790  (18011624)              490335.95
3860388.59       12.99501  (18012323)
        490385.95   3860388.59       12.36792  (18012323)              490435.95
3860388.59       11.72213  (16012904)
        490485.95   3860388.59       11.09849  (16111005)              490535.95
3860388.59       11.12002  (16121423)
        490585.95   3860388.59       10.84883  (16121423)              490635.95
3860388.59       10.18720  (19122903)
        490685.95   3860388.59        9.99321  (19122903)              490735.95
3860388.59        9.41422  (16020222)
        490785.95   3860388.59        9.24131  (16020222)              490835.95
3860388.59        8.84138  (18010720)
        490135.95   3860438.59       14.04635  (15010419)              490185.95
3860438.59       13.56569  (15010419)
        490235.95   3860438.59       13.06676  (18011624)              490285.95
3860438.59       12.91577  (18011624)
        490335.95   3860438.59       12.62295  (18012323)              490385.95
3860438.59       11.91005  (16012904)
        490435.95   3860438.59       11.17065  (16012904)              490485.95
3860438.59       10.87148  (16111005)
        490535.95   3860438.59       10.91761  (16121423)              490585.95
3860438.59       10.48789  (16121423)
        490635.95   3860438.59       10.01695  (19122903)              490685.95
3860438.59        9.72170  (19122903)
        490735.95   3860438.59        9.27238  (16020222)              490785.95
3860438.59        9.03663  (16020222)
        490835.95   3860438.59        8.67068  (18010720)              490135.95
3860488.59       13.71471  (15010419)
        490185.95   3860488.59       12.84689  (18122219)              490235.95
3860488.59       12.86885  (18011624)
        490285.95   3860488.59       12.52737  (18012323)              490335.95
3860488.59       12.14753  (18012323)
        490385.95   3860488.59       11.51837  (16012904)              490435.95
3860488.59       10.71303  (16111005)
        490485.95   3860488.59       10.72789  (16121423)              490535.95
3860488.59       10.67132  (16121423)
        490585.95   3860488.59       10.09532  (16121423)              490635.95
3860488.59        9.83023  (19122903)
        490685.95   3860488.59        9.42936  (19122903)              490735.95
3860488.59        9.09707  (16020222)
        490785.95   3860488.59        8.81590  (16020222)              490135.95
3860538.59       13.16262  (15010419)
        490185.95   3860538.59       12.54925  (18011624)              490235.95
3860538.59       12.53572  (18011624)
        490285.95   3860538.59       12.25565  (18012323)              490335.95
3860538.59       11.57996  (18012323)
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0001073 , L0001074 , L0001075 , L0001076 , L0001077 ,
L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 ,
L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 ,
L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , L0001100 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490785.95	3860538.59	8.59114	(16020222)	490135.95	3860588.59	12.47535	(15010419)
490185.95	3860588.59	12.31139	(18011624)	490235.95	3860588.59	12.03181	(18011624)
490285.95	3860588.59	11.88285	(18012323)	490335.95	3860588.59	11.25124	(16012904)
490385.95	3860588.59	10.52257	(16012904)	490435.95	3860588.59	10.42505	(16111005)
490485.95	3860588.59	10.54745	(16121423)	490535.95	3860588.59	10.16913	(16121423)
490585.95	3860588.59	9.58612	(19122903)	490635.95	3860588.59	9.38924	(19122903)
490685.95	3860588.59	8.87476	(16020222)	490735.95			

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3860588.59        8.74690  (16020222)
        490785.95   3860588.59        8.38443  (18010720)                490135.95
3860638.59       12.12460  (18122219)
        490185.95   3860638.59       12.20885  (18011624)                490235.95
3860638.59       11.85253  (18012323)
        490285.95   3860638.59       11.38065  (18012323)                490335.95
3860638.59       10.86322  (16012904)
        490385.95   3860638.59       10.16293  (16111005)                490435.95
3860638.59       10.18106  (16121423)
        490485.95   3860638.59       10.20041  (16121423)                490535.95
3860638.59        9.74571  (16121423)
        490585.95   3860638.59        9.44374  (19122903)                490635.95
3860638.59        9.15568  (19122903)
        490685.95   3860638.59        8.75628  (16020222)                490735.95
3860638.59        8.55241  (16020222)
        490785.95   3860638.59        8.22610  (18010720)                490135.95
3860688.59       11.97384  (18011624)
        490185.95   3860688.59       11.93187  (18011624)                490235.95
3860688.59       11.65107  (18012323)
        490285.95   3860688.59       10.89927  (16012904)                490335.95
3860688.59       10.40981  (16012904)
        490385.95   3860688.59       10.04453  (16111005)                490435.95
3860688.59       10.08250  (16121423)
        490485.95   3860688.59        9.92348  (16121423)                490535.95
3860688.59        9.32357  (16121423)
        490585.95   3860688.59        9.24895  (19122903)                490635.95
3860688.59        8.88217  (19122903)
        490685.95   3860688.59        8.62995  (16020222)                490735.95
3860688.59        8.38532  (16020222)
        490785.95   3860688.59        8.10226  (18010720)                490135.95
3860738.59       11.70853  (18011624)
        490185.95   3860738.59       11.38005  (18012323)                490235.95
3860738.59       11.13104  (18012323)
        490285.95   3860738.59       10.59654  (16012904)                490335.95
3860738.59        9.89405  (16012904)
        490385.95   3860738.59        9.85175  (16111005)                490435.95
3860738.59        9.99326  (16121423)
        490485.95   3860738.59        9.68851  (16121423)                490535.95
3860738.59        9.13233  (19122903)
        490585.95   3860738.59        9.01759  (19122903)                490635.95
3860738.59        8.56816  (19122903)
        490685.95   3860738.59        8.45604  (16020222)                490735.95
3860738.59        8.19050  (16020222)
        490785.95   3860738.59        7.95864  (18010720)                490135.95
3860788.59       11.31492  (18011624)
        490185.95   3860788.59       11.13268  (18012323)                490235.95
3860788.59       10.61881  (18012323)
        490285.95   3860788.59       10.18934  (16012904)                490335.95
3860788.59        9.60135  (16111005)
        490385.95   3860788.59        9.65783  (16121423)                490435.95
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3860788.59   9.72651 (16121423)
        490485.95   3860788.59   9.35410 (16121423)   490535.95
3860788.59   9.03303 (19122903)
        490585.95   3860788.59   8.78708 (19122903)   490635.95
3860788.59   8.32956 (16020222)
        490685.95   3860788.59   8.25789 (16020222)   490735.95
3860788.59   7.97981 (18010720)
        490785.95   3860788.59   7.72183 (18010720)   489985.95
3860838.59   11.70992 (15010419)
        490035.95   3860838.59   11.14924 (20010318)   490085.95
3860838.59   11.16087 (18011624)
        490135.95   3860838.59   10.89977 (18011624)   490185.95
3860838.59   10.81014 (18012323)
        490235.95   3860838.59   10.25237 (16012904)   490285.95
3860838.59   9.74701 (16012904)
        490335.95   3860838.59   9.47275 (16111005)   490385.95
3860838.59   9.52329 (16121423)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1   ***
                                  INCLUDING SOURCE(S):   L0001073   , L0001074 , L0001075   , L0001076   , L0001077   ,
                 L0001078   , L0001079   , L0001080   , L0001081   , L0001082 , L0001083   , L0001084   , L0001085   ,
                 L0001086   , L0001087   , L0001088   , L0001089   , L0001090 , L0001091   , L0001092   , L0001093   ,
                 L0001094   , L0001095   , L0001096   , L0001097   , L0001098 , L0001099   , L0001100   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                               ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

490635.95 3860838.59 8.21261 (16020222) 490685.95 3860838.59 8.08012 (16020222)
490735.95 3860838.59 7.82331 (18010720) 490785.95 3860838.59 7.53751 (18010720)
490835.95 3860838.59 7.58367 (20022108) 489835.95 3860888.59 13.27423 (20010318)
489885.95 3860888.59 12.65891 (20010318) 489935.95 3860888.59 12.10207 (20010318)
489985.95 3860888.59 11.60643 (20010318) 490035.95 3860888.59 11.13868 (20010318)
490085.95 3860888.59 10.94163 (18011624) 490135.95 3860888.59 10.73829 (18012323)
490185.95 3860888.59 10.40675 (18012323) 490235.95 3860888.59 9.94991 (16012904)
490285.95 3860888.59 9.26019 (16012904) 490335.95 3860888.59 9.29818 (16111005)
490385.95 3860888.59 9.39513 (16121423) 490435.95 3860888.59 9.20523 (16121423)
490485.95 3860888.59 8.69466 (19122903) 490535.95 3860888.59 8.67194 (19122903)
490585.95 3860888.59 8.30220 (19122903) 490635.95 3860888.59 8.08528 (16020222)
490685.95 3860888.59 7.89336 (16020222) 490735.95 3860888.59 7.65052 (18010720)
490785.95 3860888.59 7.31517 (18010720) 490835.95 3860888.59 7.60377 (20022108)
490885.95 3860888.59 8.07935 (20022108) 490935.95 3860888.59 8.33799 (20022108)
489835.95 3860938.59 13.19847 (20010318) 489885.95 3860938.59 12.57507 (20010318)
489935.95 3860938.59 12.04322 (20010318) 489985.95 3860938.59 11.55319 (20010318)
490035.95 3860938.59 11.08936 (20010318) 490085.95 3860938.59 10.64573 (20010318)
490135.95 3860938.59 10.46458 (18012323) 490185.95 3860938.59 9.91279 (18012323)
490235.95 3860938.59 9.57603 (16012904) 490285.95 3860938.59 9.13248 (16122308)
490335.95 3860938.59 9.11357 (16121423) 490385.95 3860938.59 9.23028 (16121423)
490435.95 3860938.59 8.91087 (16121423) 490485.95 3860938.59 8.58354 (19122903)
490535.95 3860938.59 8.47761 (19122903) 490585.95 3860938.59 8.03170 (19122903)
490635.95 3860938.59 7.94940 (16020222) 490685.95 3860938.59 7.70531 (16020222)
490735.95 3860938.59 7.48923 (18010720) 490785.95 3860938.59 7.14489 (20120718)
490835.95 3860938.59 7.64588 (20022108) 490885.95 3860938.59 8.09466 (20022108)

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        490935.95   3860938.59        8.32917  (20022108)               489835.95
3860988.59       13.17548  (20010318)
        489885.95   3860988.59       12.57069  (20010318)               489935.95
3860988.59       12.01995  (20010318)
        489985.95   3860988.59       11.52047  (20010318)               490035.95
3860988.59       11.04899  (20010318)
        490085.95   3860988.59       10.62043  (20010318)               490135.95
3860988.59       10.18982  (20010318)
        490185.95   3860988.59        9.79978  (20010318)               490235.95
3860988.59        9.37201  (16122308)
        490285.95   3860988.59        9.06829  (16122308)               490335.95
3860988.59        9.04346  (16121423)
        490385.95   3860988.59        9.01983  (16121423)               490435.95
3860988.59        8.59596  (16121423)
        490485.95   3860988.59        8.46173  (19122903)               490535.95
3860988.59        8.25868  (19122903)
        490585.95   3860988.59        7.85511  (16020222)               490635.95
3860988.59        7.81023  (16020222)
        490685.95   3860988.59        7.53776  (18010720)               490735.95
3860988.59        7.32398  (18010720)
        490785.95   3860988.59        7.09001  (20120718)               490835.95
3860988.59        7.67091  (20022108)
        490885.95   3860988.59        8.09124  (20022108)               490935.95
3860988.59        8.30366  (20022108)
        489835.95   3861038.59       13.15339  (20010318)               489885.95
3861038.59       12.56014  (20010318)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 677
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SLINE1   ***
                                  INCLUDING SOURCE(S):     L0001073    , L0001074
, L0001075    , L0001076    , L0001077    ,
                  L0001078    , L0001079    , L0001080    , L0001081    , L0001082
, L0001083    , L0001084    , L0001085    ,
                  L0001086    , L0001087    , L0001088    , L0001089    , L0001090
, L0001091    , L0001092    , L0001093    ,
                  L0001094    , L0001095    , L0001096    , L0001097    , L0001098
, L0001099    , L0001100    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
489935.95	3861038.59	11.98077	(20010318)	489985.95	3861038.59	11.46824	(20010318)
490035.95	3861038.59	11.00756	(20010318)	490085.95	3861038.59	10.57687	(20010318)
490135.95	3861038.59	10.16784	(20010318)	490185.95	3861038.59	9.76759	(20010318)
490235.95	3861038.59	9.38126	(20010318)	490285.95	3861038.59	9.02986	(16122308)
490335.95	3861038.59	8.92759	(16121423)	490385.95	3861038.59	8.79389	(16121423)
490435.95	3861038.59	8.30805	(16122308)	490485.95	3861038.59	8.32341	(19122903)
490535.95	3861038.59	8.04342	(19122903)	490585.95	3861038.59	7.75944	(16020222)
490635.95	3861038.59	7.64897	(16020222)	490685.95	3861038.59	7.40542	(18010720)
490735.95	3861038.59	7.16779	(16010507)	490785.95	3861038.59	7.13282	(20022108)
490835.95	3861038.59	7.69805	(20022108)	490885.95	3861038.59	8.08050	(20022108)
490935.95	3861038.59	8.28163	(20022108)	489835.95	3861088.59	13.13604	(20010318)
489885.95	3861088.59	12.50483	(20010318)	489935.95	3861088.59	11.94044	(20010318)
489985.95	3861088.59	11.42413	(20010318)	490035.95	3861088.59	10.96043	(20010318)
490085.95	3861088.59	10.54944	(20010318)	490135.95	3861088.59	10.17471	(20010318)
490185.95	3861088.59	9.82533	(20010318)	490235.95	3861088.59	9.41343	(20010318)
490285.95	3861088.59	9.02691	(16122308)	490335.95	3861088.59	8.79852	(16121423)
490385.95	3861088.59	8.53963	(16121423)	490435.95	3861088.59	8.26561	(16122308)
490485.95	3861088.59	8.15179	(19122903)	490535.95	3861088.59	7.82933	(16122308)
490585.95	3861088.59	7.65631	(16020222)	490635.95	3861088.59	7.48586	(16020222)
490685.95	3861088.59	7.27199	(18010720)	490735.95	3861088.59	7.07307	(16010507)
490785.95	3861088.59	7.18337	(20022108)	490835.95	3861088.59	7.72086	(20022108)
490885.95	3861088.59	8.07720	(20022108)	490935.95	3861088.59	8.26009	(20022108)
489020.79	3862564.85	16.24034	(20022108)	489043.15			

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK1   ***
                                   INCLUDING SOURCE(S):   L0000494   , L0000495
, L0000496   , L0000497   , L0000498   ,
                  L0000499   , L0000500   , L0000501   , L0000502   , L0000503
, L0000504   , L0000505   , L0000506   ,
                  L0000507   , L0000508   , L0000509   , L0000510   , L0000511
, L0000512   , L0000513   , L0000514   ,
                  L0000515   , L0000516   , L0000517   , L0000518   , L0000519
, L0000520   , L0000521   , . . .   ,

                                    *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489237.26   489256.56   489275.86
      489295.16   489314.46
 -
- -

 3859957.1 | 324.70424 (16020819)   306.40102 (16122205)   305.52535 (16122205)
   279.92945 (15120819)   268.30098 (19102618)
 3859937.6 | 316.46138 (16020819)   297.45881 (16122205)   298.96303 (16122205)
   275.15121 (15120819)   262.38302 (19102618)
 3859918.2 | 308.48439 (16020819)   288.41011 (16122205)   292.18728 (16122205)
   270.61834 (15120819)   256.08059 (19102618)
 3859898.8 | 300.75112 (16020819)   279.91126 (16122205)   285.71468 (16122205)
   265.36934 (15120819)   249.89947 (19102618)
 3859879.4 | 293.13420 (16020819)   271.61660 (16122205)   279.15882 (16122205)
   261.37663 (16122205)   243.31674 (19102618)
 3859860.0 | 285.84133 (16020819)   263.45856 (16122205)   272.46990 (16122205)
   257.38463 (16122205)   236.64380 (19102618)

```
 3859840.5 |    278.97690 (16020819)    255.60771 (16122205)    265.96174 (16122205)
   253.26098 (16122205)    229.99272 (19102618)
 3859821.1 |    272.57051 (16020819)    249.81456 (16020819)    259.65445 (16122205)
   248.99882 (16122205)    224.71182 (15120819)
 3859801.7 |    266.59043 (16020819)    245.05974 (16020819)    253.43225 (16122205)
   244.84391 (16122205)    221.80568 (15120819)
 3859782.3 |    260.68188 (16020819)    240.47030 (16020819)    247.34858 (16122205)
   240.62286 (16122205)    219.04398 (15120819)
 3859762.9 |    254.84700 (16020819)    236.02805 (16020819)    241.45030 (16122205)
   236.52039 (16122205)    216.45313 (15120819)
 3859743.4 |    249.22437 (16020819)    231.69717 (16020819)    235.70368 (16122205)
   232.40269 (16122205)    213.63655 (15120819)
 3859724.0 |    243.98065 (16020819)    227.47579 (16020819)    230.07022 (16122205)
   228.28283 (16122205)    210.59325 (15120819)
 3859704.6 |    238.93140 (16020819)    223.42909 (16020819)    224.57898 (16122205)
   224.17219 (16122205)    207.65010 (16122205)
 3859685.2 |    234.06638 (16020819)    219.44912 (16020819)    219.16255 (16122205)
   219.99924 (16122205)    205.41000 (16122205)
 3859665.8 |    229.21730 (16020819)    215.51492 (16020819)    213.86143 (16122205)
   215.65292 (16122205)    202.95920 (16122205)
 3859646.4 |    224.69823 (16020819)    211.78846 (16020819)    209.01890 (16122205)
   211.85668 (16122205)    200.48259 (16122205)
 3859626.9 |    220.33619 (16020819)    208.16897 (16020819)    204.23810 (16122205)
   208.05816 (16122205)    197.93213 (16122205)
 3859607.5 |    216.12323 (16020819)    204.65245 (16020819)    199.46139 (16122205)
   204.22664 (16122205)    195.39119 (16122205)
 3859588.1 |    212.30754 (16020819)    201.32314 (16020819)    194.87500 (16122205)
   200.43615 (16122205)    192.80470 (16122205)
 3859568.7 |    208.46188 (16020819)    198.03606 (16020819)    190.39170 (16122205)
   196.68868 (16122205)    190.15758 (16122205)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 679
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK1   ***
                                  INCLUDING SOURCE(S):     L0000494    , L0000495
, L0000496    , L0000497    , L0000498    ,
                  L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                  L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                  L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
```

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	489333.76	489353.06	489372.36	489391.66	489410.96
3859957.1	275.96438 (18120603)	283.68140 (18120603)	267.39244 (18120603)	249.11374 (20030523)	238.68008 (20030523)
3859937.6	266.50839 (18120603)	278.84919 (18120603)	268.43018 (18120603)	245.78111 (20030523)	241.15594 (20030523)
3859918.2	256.09963 (18120603)	271.96450 (18120603)	265.71052 (18120603)	240.07228 (18120603)	237.59989 (20030523)
3859898.8	246.08858 (18120603)	264.99851 (18120603)	263.65505 (18120603)	243.30464 (18120603)	235.89308 (20030523)
3859879.4	238.34809 (19102618)	257.46786 (18120603)	260.48247 (18120603)	245.24601 (18120603)	233.62179 (20030523)
3859860.0	234.25812 (19102618)	249.12044 (18120603)	255.66921 (18120603)	244.51421 (18120603)	228.22420 (20030523)
3859840.5	229.95386 (19102618)	240.53989 (18120603)	250.13456 (18120603)	242.88674 (18120603)	222.19505 (19022322)
3859821.1	225.55737 (19102618)	231.83712 (18120603)	244.05744 (18120603)	240.33200 (18120603)	222.13404 (18120603)
3859801.7	220.85920 (19102618)	223.19081 (18120603)	237.76442 (18120603)	237.20977 (18120603)	222.53650 (18120603)
3859782.3	216.13796 (19102618)	214.58883 (18120603)	231.16919 (18120603)	233.41093 (18120603)	221.85567 (18120603)
3859762.9	211.63333 (19102618)	206.01939 (18120603)	224.20554 (18120603)	228.98557 (18120603)	220.15196 (18120603)
3859743.4	206.88247 (19102618)	202.41984 (19102618)	217.33667 (18120603)	224.43734 (18120603)	218.20614 (18120603)
3859724.0	202.10460 (19102618)	199.45961 (19102618)	210.41736 (18120603)	219.69176 (18120603)	216.03927 (18120603)
3859704.6	197.13918 (19102618)	196.26789 (19102618)	203.42277 (18120603)	214.62235 (18120603)	213.53019 (18120603)
3859685.2	192.20471 (19102618)	192.98272 (19102618)	196.36696 (18120603)	209.29177 (18120603)	210.46416 (18120603)
3859665.8	187.27256 (19102618)	189.58648 (19102618)	189.28633 (18120603)	203.73347 (18120603)	207.00512 (18120603)
3859646.4	182.76297 (19102618)	186.24832 (19102618)	182.34988 (18120603)	198.12584 (18120603)	203.28313 (18120603)
3859626.9	180.45402 (15120819)	182.77677 (19102618)	177.22466 (19102618)	192.38084 (18120603)	199.35360 (18120603)
3859607.5	178.74022 (15120819)	179.25452 (19102618)	175.14150 (19102618)	186.56492 (18120603)	195.24096 (18120603)
3859588.1	177.14215 (15120819)	175.79298 (19102618)	172.97288 (19102618)		

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1   ***
                                   INCLUDING SOURCE(S):   L0000494   , L0000495 , L0000496   , L0000497   , L0000498   ,
                  L0000499   , L0000500   , L0000501   , L0000502   , L0000503 , L0000504   , L0000505   , L0000506   ,
                  L0000507   , L0000508   , L0000509   , L0000510   , L0000511 , L0000512   , L0000513   , L0000514   ,
                  L0000515   , L0000516   , L0000517   , L0000518   , L0000519 , L0000520   , L0000521   , . . .   ,

                                    *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489430.26   489449.56   489468.86
      489488.16   489507.46
 -

 3859957.1 | 227.68845 (15112019)   210.14161 (15112019)   194.82598 (16010405)
  184.26900 (16010405)   172.48839 (16010405)
 3859937.6 | 229.61040 (15112019)   218.36427 (15112019)   199.16013 (15112019)
  198.45946 (16010405)   192.90036 (16010405)
 3859918.2 | 222.64507 (15112019)   216.95763 (15112019)   202.88177 (15112019)
  199.52727 (16010405)   198.11769 (16010405)
 3859898.8 | 224.48213 (20030523)   217.05935 (15112019)   204.29788 (15112019)
  194.93267 (16010405)   198.59873 (16010405)
 3859879.4 | 227.91363 (20030523)   216.81334 (15112019)   204.80672 (15112019)
  189.22633 (16010405)   198.54628 (16010405)
 3859860.0 | 226.86238 (20030523)   216.94908 (15112019)   210.77858 (15112019)
  196.92044 (15112019)   196.95725 (16010405)
 3859840.5 | 224.14361 (19022322)   213.88377 (20030523)   211.87557 (15112019)
  200.69145 (15112019)   192.18142 (16010405)
 3859821.1 | 220.38191 (19022322)   213.01477 (20030523)   209.41995 (15112019)
  201.65329 (15112019)   186.62418 (18012320)

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 3859801.7 |    216.64191 (19022322)    212.05549 (19022322)    206.02671 (15112019)
   201.30905 (15112019)    187.88675 (15112019)
 3859782.3 |    211.77647 (19022322)    210.79745 (19022322)    201.87366 (15112019)
   199.85838 (15112019)    189.39639 (15112019)
 3859762.9 |    205.72546 (19022322)    208.21441 (19022322)    199.11747 (19022322)
   197.60738 (15112019)    188.70834 (15112019)
 3859743.4 |    200.62958 (18120603)    204.71091 (19022322)    198.50177 (19022322)
   194.61340 (15112019)    188.33208 (15112019)
 3859724.0 |    200.86243 (18120603)    200.57181 (19022322)    197.08397 (19022322)
   190.87491 (15112019)    187.45059 (15112019)
 3859704.6 |    200.88656 (18120603)    196.01153 (19022322)    195.30805 (19022322)
   186.57854 (15112019)    185.84266 (15112019)
 3859685.2 |    200.29404 (18120603)    190.96147 (19022322)    192.72066 (19022322)
   184.13729 (20030523)    183.55311 (15112019)
 3859665.8 |    199.03898 (18120603)    185.48583 (19022322)    189.62097 (19022322)
   183.68107 (19022322)    180.63503 (15112019)
 3859646.4 |    197.50070 (18120603)    182.54542 (18120603)    186.05201 (19022322)
   182.50285 (19022322)    177.07772 (15112019)
 3859626.9 |    195.61326 (18120603)    182.76589 (18120603)    182.05880 (19022322)
   181.07939 (19022322)    173.18866 (15112019)
 3859607.5 |    193.63147 (18120603)    182.61946 (18120603)    177.81207 (19022322)
   179.26035 (19022322)    172.32679 (19022322)
 3859588.1 |    191.12177 (18120603)    181.84736 (18120603)    172.82149 (19022322)
   176.31927 (19022322)    171.50315 (19022322)
 3859568.7 |    188.25448 (18120603)    180.71507 (18120603)    167.38286 (19022322)
   172.78125 (19022322)    170.07729 (19022322)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 681
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK1   ***
                                 INCLUDING SOURCE(S):     L0000494    , L0000495
, L0000496    , L0000497    , L0000498    ,
                  L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                  L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                  L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
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  Y-COORD  |                                                    X-COORD (METERS)
  (METERS) |       489526.76               489546.06               489565.36
      489584.66               489603.96
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |    160.45801 (16010405)    146.14882 (16122521)    140.57772 (15121808)
   136.47965 (15121808)    122.06466 (15121808)
 3859937.6 |    184.51667 (16010405)    169.90658 (16010405)    160.12541 (16122521)
   158.67531 (15121808)    151.90456 (15121808)
 3859918.2 |    191.85367 (16010405)    178.23354 (16010405)    162.51967 (16122521)
   158.26427 (15121808)    158.16104 (15121808)
 3859898.8 |    194.87299 (16010405)    182.13143 (16010405)    167.57574 (16122521)
   161.98658 (16122521)    160.34896 (15121808)
 3859879.4 |    197.00165 (16010405)    185.69377 (16010405)    172.31286 (16010405)
   166.42751 (16122521)    162.78088 (15121808)
 3859860.0 |    197.91561 (16010405)    190.17502 (16010405)    179.25131 (16010405)
   169.95027 (16122521)    160.99446 (16122521)
 3859840.5 |    195.66539 (16010405)    192.01773 (16010405)    182.83678 (16010405)
   170.37234 (16122521)    164.25824 (16122521)
 3859821.1 |    191.68097 (16010405)    191.02442 (16010405)    184.15462 (16010405)
   172.30580 (16010405)    166.70162 (16122521)
 3859801.7 |    187.39914 (16010405)    189.05998 (16010405)    184.90960 (16010405)
   175.43565 (16010405)    166.14579 (16122521)
 3859782.3 |    182.18425 (16010405)    186.15952 (16010405)    184.38579 (16010405)
   177.29927 (16010405)    164.80274 (16010405)
 3859762.9 |    178.83383 (18012320)    182.60795 (16010405)    182.96489 (16010405)
   177.73787 (16010405)    167.09999 (16010405)
 3859743.4 |    177.26705 (18012320)    177.98647 (16010405)    180.67468 (16010405)
   177.40021 (16010405)    168.98280 (16010405)
 3859724.0 |    178.32858 (15112019)    172.64957 (16010405)    177.37412 (16010405)
   176.50446 (16010405)    170.33362 (16010405)
 3859704.6 |    178.86984 (15112019)    170.70456 (18012320)    173.52639 (16010405)
   174.79784 (16010405)    170.64721 (16010405)
 3859685.2 |    178.71429 (15112019)    168.90777 (18012320)    168.98379 (16010405)
   172.31595 (16010405)    170.02367 (16010405)
 3859665.8 |    177.88606 (15112019)    167.79404 (15112019)    164.05783 (18012320)
   168.98927 (16010405)    168.69704 (16010405)
 3859646.4 |    176.41810 (15112019)    168.49838 (15112019)    162.84121 (18012320)
   165.03945 (16010405)    166.69082 (16010405)
 3859626.9 |    174.33241 (15112019)    168.65371 (15112019)    161.33956 (18012320)
   160.69284 (16010405)    164.14411 (16010405)
 3859607.5 |    171.73048 (15112019)    168.13325 (15112019)    159.23889 (18012320)
   157.36547 (18012320)    160.95246 (16010405)
 3859588.1 |    168.66233 (15112019)    166.87268 (15112019)    159.21233 (15112019)
   156.01788 (18012320)    157.11579 (16010405)
 3859568.7 |    165.06686 (15112019)    165.07406 (15112019)    159.18754 (15112019)
   154.09685 (18012320)    152.78638 (16010405)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 ,
L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 ,
L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 ,
L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489623.26
3859957.1	104.87884 (15121808)
3859937.6	129.77032 (15121808)
3859918.2	144.17945 (15121808)
3859898.8	158.74502 (15121808)
3859879.4	164.14953 (15121808)
3859860.0	164.92845 (15121808)
3859840.5	163.47933 (15121808)
3859821.1	161.03886 (16122521)
3859801.7	163.15089 (16122521)
3859782.3	163.82111 (16122521)
3859762.9	163.73340 (16122521)
3859743.4	162.02317 (16122521)
3859724.0	161.26401 (16010405)
3859704.6	162.96943 (16010405)
3859685.2	163.87950 (16010405)
3859665.8	164.16141 (16010405)
3859646.4	163.81394 (16010405)
3859626.9	162.84375 (16010405)
3859607.5	161.26538 (16010405)
3859588.1	159.10089 (16010405)
3859568.7	156.29166 (16010405)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489260.34	489284.99	489309.64	489334.29	489358.94
3859173.4	144.14969 (16020819)	130.15467 (15120819)	138.30272 (15120819)	138.87879 (16122205)	131.64309 (15120819)
3859151.9	142.06988 (16020819)	127.74486 (16020819)	135.77365 (15120819)	136.96448 (16122205)	130.34857 (15120819)
3859130.3	140.21626 (16020819)	126.62425 (16020819)	133.34938 (15120819)	135.05332 (16122205)	129.04339 (15120819)
3859108.7	138.37981 (16020819)	125.26648 (16020819)	131.03763 (15120819)	133.06533 (16122205)	127.75425 (15120819)
3859087.1	136.50293 (16020819)	123.72227 (16020819)	128.77195 (15120819)	131.16794 (16122205)	126.43456 (15120819)
3859065.6	134.60601 (16020819)	122.30726 (16020819)	126.55144 (15120819)	129.26496 (15120819)	125.10965 (15120819)
3859044.0	132.68999 (16020819)	120.81241 (16020819)	124.42432 (15120819)	127.41887 (15120819)	123.80241 (15120819)
3859022.4	130.87976 (16020819)	119.44622 (16020819)	122.28845 (15120819)	125.59492 (15120819)	122.47191 (15120819)
3859000.9	128.97017 (16020819)	117.99831 (16020819)	120.19529 (15120819)	123.79342 (15120819)	121.14044 (15120819)
3858979.3	127.16332 (16020819)	116.57115 (16020819)	118.14389 (15120819)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489383.59	489408.24	489432.89
3858957.7	125.55080 (16020819)	115.38036 (16020819)	116.16515 (15120819)
	122.01465 (15120819)	119.80922 (15120819)	
3858936.1	123.89729 (16020819)	114.10354 (16020819)	114.19191 (15120819)
	120.21851 (15120819)	118.45722 (15120819)	
3858914.6	122.27970 (16020819)	112.74602 (16020819)	112.27959 (15120819)
	118.52614 (15120819)	117.15209 (15120819)	
3858893.0	120.69693 (16020819)	111.40777 (16020819)	110.40628 (15120819)
	116.84836 (15120819)	115.82822 (15120819)	
3858871.4	119.21764 (16020819)	110.29878 (16020819)	108.54105 (15120819)
	115.18546 (15120819)	114.48733 (15120819)	
3858849.9	117.76538 (16020819)	109.10485 (16020819)	106.70727 (15120819)
	113.51868 (15120819)	113.21066 (15120819)	
3858828.3	116.21600 (16020819)	107.93023 (16020819)	104.91733 (15120819)
	111.87493 (15120819)	111.90155 (15120819)	
3858806.7	114.76188 (16020819)	106.77461 (16020819)	103.16262 (15120819)
	110.23447 (15120819)	110.59890 (15120819)	
3858785.2	113.26933 (16020819)	105.63759 (16020819)	101.43989 (15120819)
	108.63852 (15120819)	109.30335 (15120819)	
3858763.6	111.80190 (16020819)	104.42307 (16020819)	99.75585 (15120819)
	107.06539 (15120819)	108.00206 (15120819)	
3858742.0	110.19240 (16020819)	103.01499 (16020819)	98.07393 (15120819)
	105.52903 (15120819)	106.73600 (15120819)	
	104.01196 (15120819)	105.47604 (15120819)	

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      489457.54              489482.19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 ,
L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 ,
L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 ,
L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	489506.84	489531.49	489556.14	489580.79	489605.44
3859173.4	134.66655 (18120603)	126.42062 (18120603)	120.39352 (20030523)	125.05321 (19022322)	122.87097 (20030523)
3859151.9	133.10169 (18120603)	126.34178 (18120603)	116.64814 (20030523)	122.79029 (20030523)	122.31827 (20030523)
3859130.3	131.35258 (18120603)	126.21265 (18120603)	113.79976 (18120603)	120.42723 (20030523)	121.29897 (19022322)
3859108.7	129.43444 (18120603)	125.68853 (18120603)	114.77427 (18120603)	117.75600 (20030523)	119.70117 (19022322)
3859087.1	127.76964 (18120603)	125.11685 (18120603)	115.51991 (18120603)	114.80369 (20030523)	117.99245 (20030523)
3859065.6	125.55141 (18120603)	124.33606 (18120603)	115.70595 (18120603)	111.80834 (20030523)	116.07001 (20030523)
3859044.0	123.08378 (18120603)	123.35911 (18120603)	115.86749 (18120603)	108.68414 (20030523)	114.05165 (20030523)
3859022.4	120.63464 (18120603)	121.93851 (18120603)	116.14547 (18120603)	105.45270 (20030523)	111.83950 (20030523)
3859000.9	117.95996 (18120603)	120.49601 (18120603)	115.91193 (18120603)	104.66562 (18120603)	109.45290 (20030523)
3858979.3	115.33304 (18120603)	118.77464 (18120603)	115.35444 (18120603)	105.54135 (18120603)	107.01980 (20030523)
3858957.7	112.76461 (18120603)	117.05285 (18120603)	114.47966 (18120603)	106.22359 (18120603)	104.44633 (20030523)
3858936.1	110.00955 (18120603)	115.20730 (18120603)	113.73946 (18120603)		

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   106.25061 (18120603)    101.54842 (20030523)
 3858914.6 |    107.33249 (18120603)    113.37569 (18120603)    112.84169 (18120603)
   106.11006 (18120603)     98.54769 (20030523)
 3858893.0 |    104.61677 (18120603)    111.31580 (18120603)    111.93246 (18120603)
   106.13407 (18120603)     95.72569 (16120118)
 3858871.4 |    101.38037 (18120603)    108.91379 (18120603)    110.60925 (18120603)
   105.99565 (18120603)     95.82804 (18120603)
 3858849.9 |     98.36851 (18120603)    106.68708 (18120603)    109.29307 (18120603)
   105.70030 (18120603)     96.66892 (18120603)
 3858828.3 |     95.48340 (18120603)    104.26007 (18120603)    107.85612 (18120603)
   105.39974 (18120603)     97.17741 (18120603)
 3858806.7 |     92.46150 (18120603)    101.77131 (18120603)    106.17582 (18120603)
   104.80553 (18120603)     97.53532 (18120603)
 3858785.2 |     89.44501 (18120603)     99.23027 (18120603)    104.25403 (18120603)
   103.79217 (18120603)     97.58384 (18120603)
 3858763.6 |     86.44150 (18120603)     96.64610 (18120603)    102.37401 (18120603)
   102.79204 (18120603)     97.49194 (18120603)
 3858742.0 |     84.99982 (19102618)     94.31439 (18120603)    100.69190 (18120603)
   101.66957 (18120603)     96.93007 (18120603)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 686
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK1   ***
                                 INCLUDING SOURCE(S):     L0000494    , L0000495
, L0000496    , L0000497    , L0000498    ,
                  L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                  L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                  L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489630.09              489654.74              489679.39
      489704.04              489728.69
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 3859173.4 |    120.55244 (15112019)    121.42265 (15112019)    116.38668 (15112019)
   113.37431 (18012320)    111.16119 (18012320)
 3859151.9 |    117.82940 (15112019)    120.15056 (15112019)    116.48568 (15112019)
   111.23444 (18012320)    110.62812 (18012320)
 3859130.3 |    115.38404 (20030523)    118.45013 (15112019)    116.12693 (15112019)
   108.72197 (18012320)    109.68089 (18012320)
 3859108.7 |    115.43553 (20030523)    116.24876 (15112019)    115.44122 (15112019)
   109.20424 (15112019)    108.15997 (18012320)
 3859087.1 |    115.09182 (20030523)    113.98897 (15112019)    114.55359 (15112019)
   109.54075 (15112019)    106.60291 (18012320)
 3859065.6 |    114.48633 (20030523)    111.37584 (15112019)    113.25001 (15112019)
   109.69362 (15112019)    104.68020 (18012320)
 3859044.0 |    113.74648 (20030523)    108.64996 (15112019)    111.65972 (15112019)
   109.41426 (15112019)    102.25578 (18012320)
 3859022.4 |    112.64696 (20030523)    107.58797 (20030523)    109.80017 (15112019)
   108.83732 (15112019)    102.80495 (15112019)
 3859000.9 |    111.43310 (20030523)    107.60540 (20030523)    107.69033 (15112019)
   107.84737 (15112019)    103.01614 (15112019)
 3858979.3 |    110.00111 (20030523)    107.25210 (20030523)    105.35037 (15112019)
   106.70506 (15112019)    103.08626 (15112019)
 3858957.7 |    108.25593 (20030523)    106.79299 (20030523)    102.92177 (15112019)
   105.54677 (15112019)    103.14971 (15112019)
 3858936.1 |    106.43583 (20030523)    106.10635 (20030523)    100.34348 (20030523)
   103.89392 (15112019)    102.66719 (15112019)
 3858914.6 |    104.44433 (20030523)    105.08428 (20030523)    100.55925 (20030523)
   102.00920 (15112019)    101.92043 (15112019)
 3858893.0 |    102.29797 (20030523)    103.97836 (20030523)    100.55177 (20030523)
   100.03308 (15112019)    100.91918 (15112019)
 3858871.4 |     99.90383 (20030523)    102.56176 (20030523)    100.32681 (20030523)
    97.86175 (15112019)     99.67490 (15112019)
 3858849.9 |     97.49725 (20030523)    100.96476 (20030523)     99.76311 (20030523)
    95.39509 (15112019)     98.33203 (15112019)
 3858828.3 |     94.98431 (20030523)     99.32111 (20030523)     99.12902 (20030523)
    94.30432 (20030523)     96.77200 (15112019)
 3858806.7 |     92.15146 (20030523)     97.40416 (20030523)     98.30136 (20030523)
    94.46942 (20030523)     95.01118 (15112019)
 3858785.2 |     89.47246 (20030523)     95.22086 (20030523)     97.16723 (20030523)
    94.16545 (20030523)     92.94054 (15112019)
 3858763.6 |     88.76101 (16120118)     93.16107 (20030523)     95.86122 (20030523)
    93.80758 (20030523)     90.70342 (15112019)
 3858742.0 |     88.88349 (18120603)     91.23271 (20030523)     94.64177 (20030523)
    93.66596 (20030523)     88.31740 (15112019)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                         ***       01:16:45

                                   PAGE 687
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 ,
L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 ,
L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 ,
L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489753.34
3859173.4	115.61148 (16010405)
3859151.9	112.73327 (16010405)
3859130.3	109.52239 (16010405)
3859108.7	105.89062 (16010405)
3859087.1	105.07595 (18012320)
3859065.6	104.62578 (18012320)
3859044.0	103.62281 (18012320)
3859022.4	102.25656 (18012320)
3859000.9	100.54479 (18012320)
3858979.3	98.50863 (18012320)
3858957.7	96.15175 (15112019)
3858936.1	96.77436 (15112019)
3858914.6	97.13797 (15112019)
3858893.0	97.38884 (15112019)
3858871.4	97.23834 (15112019)
3858849.9	96.97832 (15112019)
3858828.3	96.33353 (15112019)
3858806.7	95.72615 (15112019)
3858785.2	94.75439 (15112019)
3858763.6	93.43936 (15112019)
3858742.0	91.92434 (15112019)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 488584.66	488614.48	488644.30	488674.12	488703.94
3858905.0	103.10155 (16012217)	101.52825 (16012217)	99.13280 (20122517)	94.12814 (20122517)	102.44383 (18122220)
3858880.0	101.70634 (16012217)	98.85474 (16012217)	96.85972 (20122517)	94.28629 (18122220)	102.34531 (18122220)
3858855.1	100.08679 (16012217)	96.59425 (20122517)	94.50644 (20122517)	95.20437 (18122220)	101.79839 (18122220)
3858830.2	98.00923 (16012217)	94.98977 (20122517)	92.17870 (20122517)	96.12451 (18122220)	100.79847 (18122220)
3858805.3	96.34595 (16012217)	95.06625 (20122517)	89.17228 (20122517)	95.93518 (18122220)	99.52869 (18122220)
3858780.3	93.20446 (16012217)	91.37224 (20122517)	88.05136 (18122220)	95.79423 (18122220)	98.52040 (18122220)
3858755.4	91.37725 (20122517)	88.81601 (20122517)	88.78550 (18122220)	95.39062 (18122220)	96.90542 (18122220)
3858730.5	89.89168 (20122517)	86.51256 (20122517)	89.34069 (18122220)	94.64126 (18122220)	94.99649 (18122220)
3858705.5	88.18809 (20122517)	83.79574 (20122517)	89.66199 (18122220)	93.85096 (18122220)	93.00663 (18122220)
3858680.6	86.42259 (20122517)	82.14559 (18122220)	89.98868 (18122220)	93.12562 (18122220)	91.21080 (18122220)
3858655.7	84.45988 (20122517)	82.97873 (18122220)	89.53246 (18122220)	91.73474 (18122220)	88.92071 (18122220)
3858630.8	82.42922 (20122517)	83.74483 (18122220)	89.27117 (18122220)	90.33846 (18122220)	86.58609 (18122220)
3858605.8	80.21232 (20122517)	84.31420 (18122220)	88.80142 (18122220)	88.76859 (18122220)	84.14282 (18122220)

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  102.34968 (18010221)    110.23960 (18010221)
 3858855.1 |    102.86665 (18122220)     96.74625 (18122220)     90.25302 (18010221)
  102.49813 (18010221)    109.06484 (18010221)
 3858830.2 |    100.16977 (18122220)     93.67291 (18122220)     91.16454 (18010221)
  102.35776 (18010221)    107.73829 (18010221)
 3858805.3 |     97.88323 (18122220)     90.48623 (18122220)     91.96713 (18010221)
  102.10947 (18010221)    106.35843 (18010221)
 3858780.3 |     95.51215 (18122220)     87.20884 (18122220)     92.62139 (18010221)
  101.77198 (18010221)    105.07837 (18010221)
 3858755.4 |     92.97904 (18122220)     83.83193 (18122220)     93.09254 (18010221)
  101.28353 (18010221)    103.45427 (18010221)
 3858730.5 |     90.11407 (18122220)     81.70281 (15121707)     93.36491 (18010221)
  100.58408 (18010221)    101.59073 (18010221)
 3858705.5 |     87.16514 (18122220)     82.61409 (18010221)     93.52562 (18010221)
   99.67731 (18010221)     99.70546 (18010221)
 3858680.6 |     84.33538 (18122220)     83.44833 (18010221)     93.48381 (18010221)
   98.63800 (18010221)     97.94014 (18010221)
 3858655.7 |     81.42243 (18122220)     84.19519 (18010221)     93.41375 (18010221)
   97.55382 (18010221)     95.90769 (18010221)
 3858630.8 |     78.41160 (18122220)     84.78588 (18010221)     93.15118 (18010221)
   96.35916 (18010221)     93.87485 (18010221)
 3858605.8 |     76.52489 (15121707)     85.24515 (18010221)     92.81948 (18010221)
   95.13290 (18010221)     91.83738 (18010221)
 3858580.9 |     75.13360 (18010221)     85.61782 (18010221)     92.30341 (18010221)
   93.86664 (18010221)     89.74194 (18010221)
 3858556.0 |     76.05996 (18010221)     85.94781 (18010221)     91.78592 (18010221)
   92.38288 (18010221)     87.80780 (19011424)
 3858531.0 |     76.85812 (18010221)     86.08063 (18010221)     90.98135 (18010221)
   90.76442 (18010221)     87.55325 (19011424)
 3858506.1 |     77.58428 (18010221)     86.01411 (18010221)     90.18472 (18010221)
   89.18746 (18010221)     87.25935 (19011424)
 3858481.2 |     78.19096 (18010221)     85.91179 (18010221)     89.28334 (18010221)
   87.53764 (18010221)     86.92419 (19011424)
 3858456.2 |     78.69091 (18010221)     85.69606 (18010221)     88.28290 (18010221)
   85.82221 (18010221)     86.48000 (19011424)
 3858431.3 |     79.03734 (18010221)     85.32828 (18010221)     87.23112 (18010221)
   84.04805 (18010221)     85.89331 (19011424)
 3858406.4 |     79.32180 (18010221)     84.85436 (18010221)     86.00743 (18010221)
   82.22197 (18010221)     85.26664 (19011424)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 690
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK1   ***
                                   INCLUDING SOURCE(S):     L0000494    , L0000495
```

```
, L0000496    , L0000497    , L0000498    ,
                L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       488882.86               488912.68              488942.50
      488972.32              489002.14
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3858905.0 |    112.70473 (18010221)    109.42563 (19011424)    113.67860 (19011424)
   109.16918 (19011424)    105.45303 (18020119)
 3858880.0 |    110.64235 (18010221)    108.78674 (19011424)    111.91306 (19011424)
   106.40209 (19011424)    103.98662 (18020119)
 3858855.1 |    108.39919 (18010221)    108.02725 (19011424)    110.06767 (19011424)
   103.68120 (19011424)    102.49592 (18020119)
 3858830.2 |    106.07035 (18010221)    107.15328 (19011424)    108.19343 (19011424)
   100.95783 (19011424)    100.93334 (18020119)
 3858805.3 |    103.60462 (18010221)    106.06130 (19011424)    106.20498 (19011424)
    99.59462 (20022718)     99.37307 (18020119)
 3858780.3 |    101.35603 (18010221)    105.08647 (19011424)    104.18474 (19011424)
    97.72202 (20022718)     97.79488 (18020119)
 3858755.4 |     98.86331 (18010221)    103.88027 (19011424)    102.06424 (19011424)
    95.91911 (20022718)     96.16452 (18020119)
 3858730.5 |     97.68930 (19011424)    102.52571 (19011424)     99.89226 (19011424)
    94.20279 (20022718)     94.51157 (18020119)
 3858705.5 |     97.22224 (19011424)    101.12041 (19011424)     97.71659 (19011424)
    92.57632 (20022718)     92.83492 (18020119)
 3858680.6 |     96.78777 (19011424)     99.71734 (19011424)     95.52165 (19011424)
    91.60057 (18020119)     91.16969 (18020119)
 3858655.7 |     96.14958 (19011424)     98.21432 (19011424)     93.31347 (19011424)
    90.56982 (18020119)     89.48379 (18020119)
 3858630.8 |     95.44350 (19011424)     96.62257 (19011424)     91.09765 (19011424)
    89.52476 (18020119)     88.69150 (16122922)
 3858605.8 |     94.65019 (19011424)     94.98106 (19011424)     88.87609 (19011424)
    88.44261 (18020119)     88.28516 (16122922)
 3858580.9 |     93.74229 (19011424)     93.29691 (19011424)     87.15503 (20022718)
    87.34187 (18020119)     87.85283 (16122922)
 3858556.0 |     92.79098 (19011424)     91.64207 (19011424)     85.90701 (20022718)
    86.19553 (18020119)     87.38744 (16122922)
```

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1   ***
                                   INCLUDING SOURCE(S):   L0000494   , L0000495 , L0000496   , L0000497   , L0000498   ,
                                      L0000499   , L0000500   , L0000501   , L0000502   , L0000503 , L0000504   , L0000505   , L0000506   ,
                                      L0000507   , L0000508   , L0000509   , L0000510   , L0000511 , L0000512   , L0000513   , L0000514   ,
                                      L0000515   , L0000516   , L0000517   , L0000518   , L0000519 , L0000520   , L0000521   , . . .   ,

                                    *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489031.96   489061.78   489091.60
      489121.42   489151.24
 - - -

```
   121.37548 (20040918)    122.69760 (20040918)
 3858805.3 |    104.25113 (16122922)    110.85979 (16122922)    110.21888 (20040918)
   119.69851 (20040918)    120.81406 (20040918)
 3858780.3 |    103.39411 (16122922)    109.35124 (16122922)    109.11720 (20040918)
   118.10760 (20040918)    118.91478 (20040918)
 3858755.4 |    102.50917 (16122922)    107.84461 (16122922)    108.02342 (20040918)
   116.57479 (20040918)    117.09529 (20040918)
 3858730.5 |    101.60184 (16122922)    106.34088 (16122922)    106.93256 (20040918)
   115.06496 (20040918)    115.31183 (20040918)
 3858705.5 |    100.67131 (16122922)    104.81445 (16122922)    105.85491 (20040918)
   113.57760 (20040918)    113.56331 (20040918)
 3858680.6 |     99.73319 (16122922)    103.28598 (16122922)    104.75194 (20040918)
   112.06346 (20040918)    111.83164 (20040918)
 3858655.7 |     98.78200 (16122922)    101.83978 (16122922)    103.70972 (20040918)
   110.56167 (20040918)    110.14912 (20040918)
 3858630.8 |     97.81932 (16122922)    100.36994 (16122922)    102.67502 (20040918)
   109.10988 (20040918)    108.48195 (20040918)
 3858605.8 |     96.84663 (16122922)     98.90017 (16122922)    101.64788 (20040918)
   107.74919 (20040918)    106.91393 (20040918)
 3858580.9 |     95.86533 (16122922)     97.45729 (16122922)    100.62352 (20040918)
   106.42904 (20040918)    105.39001 (20040918)
 3858556.0 |     94.88844 (16122922)     96.03820 (16122922)     99.61026 (20040918)
   105.10085 (20040918)    103.86684 (20040918)
 3858531.0 |     93.89389 (16122922)     94.62198 (16122922)     98.60821 (20040918)
   103.77969 (20040918)    102.37740 (20040918)
 3858506.1 |     92.89434 (16122922)     93.22436 (16122922)     97.61735 (20040918)
   102.46772 (20040918)    100.92060 (20040918)
 3858481.2 |     91.89923 (16122922)     91.83625 (16122922)     96.64292 (20040918)
   101.20832 (20040918)     99.49534 (20040918)
 3858456.2 |     90.89748 (16122922)     90.46338 (16122922)     95.67446 (20040918)
    99.96566 (20040918)     98.10062 (20040918)
 3858431.3 |     89.88854 (16122922)     89.10306 (16122922)     94.71858 (20040918)
    98.73534 (20040918)     96.71941 (20040918)
 3858406.4 |     88.87839 (16122922)     87.75290 (16122922)     93.76968 (20040918)
    97.52846 (20040918)     95.38092 (20040918)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 692
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK1   ***
                                 INCLUDING SOURCE(S):     L0000494    , L0000495
, L0000496    , L0000497    , L0000498    ,
                 L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                 L0000507    , L0000508    , L0000509    , L0000510    , L0000511
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, L0000512   , L0000513   , L0000514   ,
                L0000515   , L0000516   , L0000517   , L0000518   , L0000519
, L0000520   , L0000521   , . . .   ,

                                *** NETWORK ID: UCART3   ; NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489181.06
 -
- -

 3858905.0 | 121.16041 (20040918)
 3858880.0 | 119.03302 (20040918)
 3858855.1 | 116.95456 (20040918)
 3858830.2 | 115.07649 (19122223)
 3858805.3 | 113.29077 (19122223)
 3858780.3 | 111.56711 (19122223)
 3858755.4 | 109.90479 (19122223)
 3858730.5 | 108.25313 (19122223)
 3858705.5 | 106.63824 (19122223)
 3858680.6 | 105.08447 (19122223)
 3858655.7 | 103.59128 (19122223)
 3858630.8 | 102.14657 (19122223)
 3858605.8 | 100.70600 (19122223)
 3858580.9 | 99.28473 (19122223)
 3858556.0 | 97.92779 (19122223)
 3858531.0 | 96.57132 (19122223)
 3858506.1 | 95.26202 (19122223)
 3858481.2 | 93.98288 (19122223)
 3858456.2 | 92.71161 (19122223)
 3858431.3 | 91.46428 (19122223)
 3858406.4 | 90.26897 (19122223)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK1   ***
                                   INCLUDING SOURCE(S):   L0000494   , L0000495
, L0000496   , L0000497   , L0000498   ,
                L0000499   , L0000500   , L0000501   , L0000502   , L0000503
, L0000504   , L0000505   , L0000506   ,

```
                 L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                 L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489386.10               489460.62              489535.14
      489609.66              489684.18
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |    181.75801 (18011523)    169.06271 (19121118)    147.83823 (19122119)
   134.23694 (16122718)    126.71714 (20010318)
 3861650.6 |    190.60174 (16122202)    172.37015 (19121118)    151.88783 (19010320)
   140.77730 (16122718)    128.22699 (20022002)
 3861625.5 |    198.61640 (16122202)    174.24826 (18120822)    154.55044 (19010320)
   144.61836 (16122718)    129.05408 (20022002)
 3861600.3 |    205.79410 (19123008)    178.90716 (18120822)    155.61567 (19010320)
   146.99135 (16122718)    129.92694 (20022002)
 3861575.2 |    218.19181 (19123008)    182.19010 (19122119)    155.72098 (19122222)
   149.12261 (20010318)    128.79640 (20022002)
 3861550.1 |    224.85576 (19123008)    187.70680 (19122119)    162.85241 (16122718)
   149.77832 (20010318)    130.18829 (16122308)
 3861524.9 |    228.71781 (19123008)    191.87445 (19122119)    168.67309 (16122718)
   148.87352 (20022002)    131.80110 (16122308)
 3861499.8 |    234.99718 (19121118)    193.62861 (19010320)    171.80402 (16122718)
   148.44813 (20022002)    133.51190 (16122308)
 3861474.6 |    242.34308 (19121118)    196.46126 (19010320)    174.05571 (20010318)
   147.43365 (20022002)    134.69585 (16122308)
 3861449.5 |    246.03226 (19121118)    197.21917 (19010320)    175.07710 (20010318)
   149.73754 (16122308)    133.08343 (16122308)
 3861424.4 |    250.87747 (18120822)    202.27352 (16122718)    174.49351 (20010318)
   150.48611 (16122308)    132.55464 (16122308)
 3861399.2 |    252.90453 (19122119)    206.25298 (16122718)    172.68933 (20010318)
   150.99114 (16122308)    131.59864 (16122308)
 3861374.1 |    257.20448 (19122119)    208.51764 (20010318)    170.84659 (20010318)
   150.91759 (16122308)    129.79525 (16122308)
 3861348.9 |    258.05816 (19122119)    209.02469 (20010318)    171.55574 (16122308)
   149.96590 (16122308)    127.06509 (16122308)
 3861323.8 |    256.66649 (19010320)    209.58863 (20010318)    172.36815 (16122308)
   148.70598 (16122308)    126.66846 (16010507)
 3861298.7 |    257.60186 (20010318)    209.08599 (20010318)    172.77141 (16122308)
   147.36588 (16122308)    132.87309 (16010507)
 3861273.5 |    261.47262 (20010318)    207.76726 (20010318)    172.27981 (16122308)
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 ,
  L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 ,
  L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 ,
  L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	489758.70	489833.22	489907.74	489982.26	490056.78
3861675.8	111.02577 (19022504)	106.14423 (16122308)	95.56966 (16122308)	86.09615 (16011801)	81.14129 (16021119)
3861650.6	112.62233 (16010323)	107.11100 (16122308)	94.50940 (16122308)	85.77538 (16021119)	80.99287 (16021119)
3861625.5	116.57844 (16122308)	107.45781 (16122308)	95.20686 (16011801)	87.22569 (16021119)	80.92751 (16021119)
3861600.3	120.54439 (16122308)	107.66280 (16122308)	94.96587 (16122719)	88.76214 (16021119)	81.69655 (15020221)
3861575.2	120.90126 (16122308)	106.23759 (16122308)	94.77913 (16021119)	89.08092 (16021119)	81.68749 (15020221)

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 3861550.1 |    119.73547 (16122308)    103.75552 (16122308)     95.63539 (16021119)
    88.49430 (16021119)     81.78301 (16021120)
 3861524.9 |    118.62472 (16122308)    103.30883 (16122719)     95.71544 (16021119)
    87.94863 (15020221)     82.65126 (16021120)
 3861499.8 |    117.11122 (16122308)    103.36605 (16021119)     95.48297 (16021119)
    88.36405 (16021120)     86.58652 (18020819)
 3861474.6 |    115.42552 (16122308)    103.77967 (16021119)     94.89149 (16021119)
    91.91000 (18020819)     88.66647 (18020819)
 3861449.5 |    113.88353 (16122308)    103.89595 (16021119)     94.77953 (15020221)
    94.06695 (18020819)     90.23817 (16010507)
 3861424.4 |    113.38540 (16021119)    103.82769 (16021119)    100.25573 (18020819)
    96.00929 (16010507)     91.34271 (16010507)
 3861399.2 |    113.68077 (16021119)    105.34173 (18020819)    102.63732 (16010507)
    97.23475 (16010507)     91.75028 (20022720)
 3861374.1 |    113.53522 (16021119)    110.04732 (16010507)    103.91620 (16010507)
    97.80555 (16010507)     92.80878 (20022720)
 3861348.9 |    117.07844 (16010507)    112.42904 (16010507)    104.55221 (16010507)
    98.70488 (20022720)     93.30306 (20022720)
 3861323.8 |    120.94857 (16010507)    112.67034 (16010507)    105.39505 (20022720)
    99.26386 (20022720)     93.34034 (20022720)
 3861298.7 |    122.85476 (16010507)    113.47804 (20022720)    106.01827 (20022720)
    99.89198 (20022720)     93.19506 (20022720)
 3861273.5 |    123.97796 (20120718)    114.36859 (20022720)    106.55751 (20022720)
   100.04670 (20022720)     92.66043 (20022720)
 3861248.4 |    124.20488 (20022720)    114.96628 (20022720)    106.73582 (20022720)
    99.52444 (20022720)     92.28712 (20022720)
 3861223.2 |    124.16840 (20022720)    115.16549 (20022720)    106.49452 (20022720)
    98.91572 (20022720)     91.90127 (20022720)
 3861198.1 |    123.92163 (20120718)    114.89713 (20022720)    106.20729 (20022720)
    98.51630 (20022720)     92.07332 (18120708)
 3861173.0 |    123.63362 (20120718)    114.59312 (20022720)    105.87212 (20022720)
    98.45641 (18120708)     92.89565 (18120708)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 695
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK1   ***
                                  INCLUDING SOURCE(S):     L0000494    , L0000495
, L0000496    , L0000497    , L0000498    ,
                 L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                 L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                 L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,
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*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	490131.30	490205.82	490280.34	490354.86	490429.38
3861675.8	74.86433 (15020221)	69.57574 (15020221)	66.27661 (16021120)	63.28304 (18020819)	64.09273 (18020819)
3861650.6	75.17595 (15020221)	70.73842 (16021120)	67.11720 (16021120)	66.00195 (18020819)	65.54820 (18020819)
3861625.5	75.65223 (15020221)	71.94860 (16021120)	70.76638 (18020819)	68.97659 (18020819)	67.55110 (18020819)
3861600.3	76.97908 (16021120)	73.33303 (18020819)	74.27369 (18020819)	72.75921 (18020819)	70.40826 (18020819)
3861575.2	77.01992 (16021120)	76.98961 (18020819)	75.88340 (18020819)	73.11243 (18020819)	70.19985 (18020819)
3861550.1	79.85937 (18020819)	79.43755 (18020819)	77.44153 (18020819)	73.46221 (16010507)	71.49099 (20022720)
3861524.9	82.94955 (18020819)	80.58045 (18020819)	78.11835 (18020819)	74.75056 (20022720)	71.92380 (20022720)
3861499.8	84.42640 (18020819)	82.01746 (16010507)	78.98463 (16010507)	76.10745 (20022720)	72.07519 (20022720)
3861474.6	85.84460 (16010507)	83.61818 (16010507)	80.61718 (20022720)	76.17721 (20022720)	72.35610 (20022720)
3861449.5	88.10749 (16010507)	84.86882 (20022720)	80.56517 (20022720)	75.69023 (20022720)	71.80239 (20022720)
3861424.4	87.84203 (20022720)	85.31534 (20022720)	80.35601 (20022720)	75.23200 (20022720)	71.11807 (20022720)
3861399.2	88.34249 (20022720)	84.67938 (20022720)	79.64546 (20022720)	74.60047 (20022720)	69.95817 (20022720)
3861374.1	88.66743 (20022720)	84.38501 (20022720)	78.84674 (20022720)	73.69394 (20022720)	69.62665 (18011522)
3861348.9	88.46624 (20022720)	84.16595 (20022720)	78.09461 (20022720)	72.74778 (18011522)	70.04104 (18120921)
3861323.8	88.06443 (20022720)	82.82252 (20022720)	77.26251 (20022720)	73.62311 (18120921)	70.61750 (18120921)
3861298.7	88.21864 (20022720)	81.85791 (20022720)	77.48106 (18120921)	73.95635 (18120921)	70.95723 (18120921)
3861273.5	87.02591 (20022720)	81.65695 (18120921)	77.81231 (18120921)	74.07810 (18120921)	71.66988 (18120708)
3861248.4	85.97014 (18120921)	81.88913 (18120921)	77.99690 (18120708)	74.75291 (18120708)	72.17516 (18120708)
3861223.2	86.34907 (18120708)	82.54294 (18120708)	79.04132 (18120708)		

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1   ***
                                  INCLUDING SOURCE(S):   L0000494   , L0000495 , L0000496   , L0000497   , L0000498   ,
                 L0000499   , L0000500   , L0000501   , L0000502   , L0000503 , L0000504   , L0000505   , L0000506   ,
                 L0000507   , L0000508   , L0000509   , L0000510   , L0000511 , L0000512   , L0000513   , L0000514   ,
                 L0000515   , L0000516   , L0000517   , L0000518   , L0000519 , L0000520   , L0000521   , . . .   ,

                                *** NETWORK ID: UCART4   ; NETWORK TYPE: GRIDCART ***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 490503.90   490578.42   490652.94
      490727.46   490801.98
 - - -

```
 3861499.8 |     68.41650 (20022720)     64.73044 (20022720)     61.36903 (18011122)
    58.72794 (18022523)     57.21413 (18011522)
 3861474.6 |     68.02533 (20022720)     64.06994 (18011122)     60.83369 (18022523)
    59.19578 (18011522)     57.90727 (18011522)
 3861449.5 |     67.47175 (20022720)     63.41808 (18011122)     61.50277 (18011522)
    59.82477 (18011522)     57.81924 (18011522)
 3861424.4 |     66.46216 (18011122)     64.06150 (18011522)     61.98549 (18011522)
    59.87841 (18011522)     58.07817 (18120921)
 3861399.2 |     66.53840 (18011522)     64.43972 (18011522)     62.19077 (18120921)
    60.33666 (18120921)     58.02095 (18120921)
 3861374.1 |     67.01291 (18011522)     64.87296 (18120921)     62.50325 (18120921)
    60.37481 (18120921)     57.97198 (18120708)
 3861348.9 |     67.55768 (18120921)     65.08118 (18120921)     62.52124 (18120921)
    60.40484 (18120708)     58.90409 (18120708)
 3861323.8 |     67.78771 (18120921)     65.00927 (18120921)     62.95522 (18120708)
    61.07090 (18120708)     59.33643 (18120708)
 3861298.7 |     68.03252 (18120708)     66.08241 (18120708)     63.47206 (18120708)
    61.97309 (18120708)     60.02664 (18120708)
 3861273.5 |     68.79322 (18120708)     66.38625 (18120708)     63.88268 (18120708)
    61.96368 (18120708)     60.05674 (18120708)
 3861248.4 |     69.26554 (18120708)     67.21453 (18120708)     63.99132 (18120708)
    61.80558 (18120708)     59.93454 (18120708)
 3861223.2 |     69.73821 (18120708)     67.67808 (18120708)     63.99229 (18120708)
    61.65536 (18120708)     59.58973 (18120708)
 3861198.1 |     70.12021 (18120708)     67.44175 (18120708)     63.89315 (18120708)
    61.22751 (18120708)     58.95288 (19010319)
 3861173.0 |     70.06823 (18120708)     66.97451 (18120708)     63.51854 (18120708)
    61.01414 (20120308)     59.48557 (20120308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 697
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK1   ***
                                  INCLUDING SOURCE(S):     L0000494    , L0000495
, L0000496    , L0000497    , L0000498    ,
                  L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                  L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                  L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                   *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***
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 3861675.8 | 55.21857 (20022720)
 3861650.6 | 55.74361 (18011122)
 3861625.5 | 55.20693 (18011122)
 3861600.3 | 54.29904 (18011122)
 3861575.2 | 53.63387 (18022523)
 3861550.1 | 54.39588 (18022523)
 3861524.9 | 54.84702 (18022523)
 3861499.8 | 55.47134 (18011522)
 3861474.6 | 55.82687 (18011522)
 3861449.5 | 56.06161 (18120921)
 3861424.4 | 55.87076 (18120921)
 3861399.2 | 55.74092 (20120318)
 3861374.1 | 56.59349 (18120708)
 3861348.9 | 57.25768 (18120708)
 3861323.8 | 57.66454 (18120708)
 3861298.7 | 57.75507 (18120708)
 3861273.5 | 57.55746 (18120708)
 3861248.4 | 57.24580 (18120708)
 3861223.2 | 56.74605 (19010319)
 3861198.1 | 56.36500 (19010319)
 3861173.0 | 57.78933 (20120308)

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 491611.20	491641.99	491672.78	491703.57	491734.36
3861693.5	40.65886 (18120921)	40.26130 (18120921)	39.87578 (18120921)	39.20839 (18120921)	38.58697 (18120921)
3861664.1	40.61983 (18120921)	40.05889 (18120921)	39.37720 (18120921)	39.09897 (20120318)	38.82632 (20120318)
3861634.6	40.57515 (20120318)	40.27275 (20120318)	39.90872 (20120318)	39.57105 (20120318)	39.17375 (20120318)
3861605.2	40.97563 (20120318)	40.60636 (20120318)	40.11748 (20120318)	39.71246 (18120708)	39.61798 (18120708)
3861575.7	41.30121 (18120708)	41.13592 (18120708)	40.87949 (18120708)	40.66198 (18120708)	40.35624 (18120708)
3861546.3	42.16153 (18120708)	41.91074 (18120708)	41.50341 (18120708)	41.14050 (18120708)	40.78793 (18120708)
3861516.8	42.64039 (18120708)	42.24527 (18120708)	41.79501 (18120708)	41.29143 (18120708)	40.80141 (18120708)
3861487.4	42.68822 (18120708)	42.18861 (18120708)	41.66856 (18120708)	41.06225 (18120708)	40.43847 (18120708)
3861457.9	42.35255 (18120708)	41.71709 (18120708)	41.06366 (18120708)	40.39261 (18120708)	39.70442 (18120708)
3861428.5	41.70841 (18120708)	40.90316 (18120708)	40.19622 (19010319)	39.73802 (19010319)	39.26727 (19010319)
3861399.0	41.22063 (19010319)	40.63782 (19010319)	40.13137 (19010319)	39.55662 (19010319)	39.02738 (19010319)
3861369.6	40.89179 (19010319)	40.28416 (15013105)	39.85352 (15013105)	39.35227 (15013105)	38.87327 (15013105)
3861340.1	40.61408 (15013105)	40.08393 (15013105)	39.54581 (15013105)	38.99979 (15013105)	38.44600 (15013105)
3861310.7	40.12904 (15013105)	39.49154 (15013105)	38.87939 (15013105)	38.31380 (16120801)	38.00842 (16120801)
3861281.2	40.06515 (16120801)	39.67235 (16120801)	39.27812 (16120801)	38.94092 (16120801)	38.57174 (16120801)
3861251.8	40.90319 (20120308)	40.62105 (20120308)	40.33953 (20120308)	40.12357 (20120308)	39.84288 (20120308)
3861222.3	42.93014 (20120308)	42.57501 (20120308)	42.22256 (20120308)	41.90691 (20120308)	41.59298 (20120308)
3861192.9	44.44440 (20120308)	44.06262 (20120308)	43.71990 (20120308)	43.34419 (20120308)	42.90191 (20120308)
3861163.4	45.52943 (20120308)	45.13146 (20120308)	44.80886 (20120308)	44.34407 (20120308)	43.81285 (20120308)
3861134.0	46.09339 (20120308)	45.80264 (20120308)	45.39649 (20120308)	44.88408 (20120308)	44.30488 (20120308)

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1   ***
                                 INCLUDING SOURCE(S):   L0000494   , L0000495 , L0000496   , L0000497   , L0000498   ,
                 L0000499   , L0000500   , L0000501   , L0000502   , L0000503 , L0000504   , L0000505   , L0000506   ,
                 L0000507   , L0000508   , L0000509   , L0000510   , L0000511 , L0000512   , L0000513   , L0000514   ,
                 L0000515   , L0000516   , L0000517   , L0000518   , L0000519 , L0000520   , L0000521   , . . .   ,

                                  *** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 491765.15   491795.94   491826.73
      491857.52   491888.31
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   37.47852 (19010319)     37.03299 (19010319)
 3861428.5 |     38.78437 (19010319)     38.28972 (19010319)     37.78379 (19010319)
   37.24139 (19010319)     36.83618 (15013105)
 3861399.0 |     38.56168 (15013105)     38.11205 (15013105)     37.65377 (15013105)
   37.21503 (15013105)     36.76722 (15013105)
 3861369.6 |     38.41505 (15013105)     37.88960 (15013105)     37.38523 (15013105)
   36.87277 (15013105)     36.37977 (15013105)
 3861340.1 |     37.88461 (15013105)     37.31587 (15013105)     36.79629 (15013105)
   36.15755 (15013105)     35.94300 (16120801)
 3861310.7 |     37.72720 (16120801)     37.41450 (16120801)     37.12508 (16120801)
   36.77865 (16120801)     36.50748 (16120801)
 3861281.2 |     38.20015 (16120801)     37.82610 (16120801)     37.44954 (16120801)
   37.09739 (16120801)     36.81215 (20120308)
 3861251.8 |     39.59458 (20120308)     39.34627 (20120308)     39.12882 (20120308)
   38.88005 (20120308)     38.60099 (20120308)
 3861222.3 |     41.24733 (20120308)     40.93696 (20120308)     40.66044 (20120308)
   40.38420 (20120308)     40.04535 (20120308)
 3861192.9 |     42.49840 (20120308)     42.09829 (20120308)     41.80267 (20120308)
   41.50675 (20120308)     41.17848 (20120308)
 3861163.4 |     43.32238 (20120308)     42.97671 (20120308)     42.56344 (20120308)
   42.22003 (20120308)     41.84422 (20120308)
 3861134.0 |     43.76756 (20120308)     43.44679 (20120308)     42.84949 (20120308)
   42.42984 (20120308)     41.94518 (20120308)
 3861104.5 |     43.77354 (20120308)     43.16337 (20120308)     42.66657 (20120308)
   42.20836 (20120308)     41.71856 (20120308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 700
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK1   ***
                                  INCLUDING SOURCE(S):     L0000494    , L0000495
, L0000496    , L0000497    , L0000498    ,
                  L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                  L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                  L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                   *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

Y-COORD (METERS)	X-COORD (METERS)				
	491919.10	491949.89	491980.68	492011.47	492042.26
3861693.5	36.32332 (20120318)	35.98276 (20120318)	35.58791 (20120318)	35.16603 (20120318)	35.02120 (18120708)
3861664.1	36.53864 (18120708)	36.42957 (18120708)	36.37534 (18120708)	36.23991 (18120708)	36.05249 (18120708)
3861634.6	37.45747 (18120708)	37.29344 (18120708)	37.07605 (18120708)	36.86160 (18120708)	36.59598 (18120708)
3861605.2	38.05896 (18120708)	37.76014 (18120708)	37.41052 (18120708)	37.03957 (18120708)	36.70218 (18120708)
3861575.7	38.23263 (18120708)	37.80391 (18120708)	37.41168 (18120708)	36.91512 (18120708)	36.53614 (18120708)
3861546.3	38.10022 (18120708)	37.57355 (18120708)	37.02891 (18120708)	36.57578 (18120708)	35.96869 (18120708)
3861516.8	37.55065 (18120708)	36.90296 (18120708)	36.24062 (18120708)	35.72628 (18120708)	35.16108 (19010319)
3861487.4	36.67084 (19010319)	36.30724 (19010319)	35.88309 (19010319)	35.49346 (19010319)	35.15828 (19010319)
3861457.9	36.60027 (19010319)	36.13107 (19010319)	35.73745 (15013105)	35.39885 (15013105)	35.17141 (15013105)
3861428.5	36.48096 (15013105)	36.11489 (15013105)	35.73821 (15013105)	35.32586 (15013105)	35.02769 (15013105)
3861399.0	36.33750 (15013105)	35.89811 (15013105)	35.42357 (15013105)	34.94101 (15013105)	34.54949 (15013105)
3861369.6	35.79781 (15013105)	35.34202 (15013105)	34.77359 (15013105)	34.22490 (15013105)	33.96059 (16120801)
3861340.1	35.57738 (16120801)	35.35778 (16120801)	35.08360 (16120801)	34.80504 (16120801)	34.59286 (16120801)
3861310.7	36.12893 (16120801)	35.79892 (16120801)	35.49050 (16120801)	35.17790 (16120801)	34.90891 (16120801)
3861281.2	36.62577 (20120308)	36.43781 (20120308)	36.24834 (20120308)	36.13857 (20120308)	35.91866 (20120308)
3861251.8	38.38221 (20120308)	38.16244 (20120308)	37.94167 (20120308)	37.74815 (20120308)	37.44108 (20120308)
3861222.3	39.80151 (20120308)	39.52625 (20120308)	39.22114 (20120308)	38.91688 (20120308)	38.58416 (20120308)
3861192.9	40.81960 (20120308)	40.49375 (20120308)	40.13811 (20120308)	39.78416 (20120308)	39.34176 (20120308)
3861163.4	41.43789 (20120308)	41.03410 (20120308)	40.63275 (20120308)	40.26438 (20120308)	39.77610 (20120308)
3861134.0	41.56378 (20120308)	41.11842 (20120308)	40.64420 (20120308)	40.20523 (20120308)	39.76906 (20120308)
3861104.5	41.23244 (20120308)	40.74992 (20120308)	40.27094 (20120308)	39.82711 (20120308)	39.38551 (20120308)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK1   ***
                            INCLUDING SOURCE(S):   L0000494   , L0000495
, L0000496   , L0000497   , L0000498   ,
                L0000499   , L0000500   , L0000501   , L0000502   , L0000503
, L0000504   , L0000505   , L0000506   ,
                L0000507   , L0000508   , L0000509   , L0000510   , L0000511
, L0000512   , L0000513   , L0000514   ,
                L0000515   , L0000516   , L0000517   , L0000518   , L0000519
, L0000520   , L0000521   , . . .   ,

                             *** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 492073.05   492103.84   492134.63
      492165.42   492196.21
 -
- -

 3861693.5 | 34.81157 (18120708)   34.65626 (18120708)   34.50271 (18120708)
    34.32498 (18120708)   34.09798 (18120708)
 3861664.1 | 35.51931 (18120708)   35.26012 (18120708)   35.03234 (18120708)
    34.75530 (18120708)   34.45676 (18120708)
 3861634.6 | 36.20153 (18120708)   35.62486 (18120708)   35.19094 (18120708)
    34.71164 (18120708)   34.48007 (18120708)
 3861605.2 | 36.23605 (18120708)   35.77826 (18120708)   35.19683 (18120708)
    34.54643 (18120708)   34.11927 (18120708)
 3861575.7 | 36.13347 (18120708)   35.40034 (18120708)   34.91263 (18120708)
    34.12738 (18120708)   33.45940 (18120708)
 3861546.3 | 35.26796 (18120708)   34.63351 (18120708)   34.03694 (18120708)
    33.52730 (16122023)   33.18728 (16122023)
 3861516.8 | 34.67009 (19010319)   34.32299 (19010319)   33.91944 (19010319)
    33.57610 (16122023)   33.13670 (16122023)
 3861487.4 | 34.58734 (19010319)   34.18046 (15013105)   33.87462 (15013105)
    33.58127 (15013105)   33.25384 (15013105)
 3861457.9 | 34.64143 (15013105)   34.27272 (15013105)   33.89434 (15013105)
    33.50663 (15013105)   33.10993 (15013105)
 3861428.5 | 34.49850 (15013105)   34.03517 (15013105)   33.56443 (15013105)
    33.13339 (15013105)   32.67124 (15013105)
 3861399.0 | 33.97764 (15013105)   33.44888 (15013105)   32.93806 (15013105)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 ,
L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 ,
L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 ,
L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)
492227.00	

 3861693.5 | 33.89969 (18120708)
 3861664.1 | 34.16307 (18120708)
 3861634.6 | 34.04340 (18120708)
 3861605.2 | 33.59679 (18120708)
 3861575.7 | 32.88170 (18120708)
 3861546.3 | 32.78998 (16122023)
 3861516.8 | 32.78694 (15013105)
 3861487.4 | 32.91625 (15013105)
 3861457.9 | 32.72721 (15013105)
 3861428.5 | 32.20215 (15013105)
 3861399.0 | 31.89326 (16120801)
 3861369.6 | 32.51898 (16120801)
 3861340.1 | 32.82651 (16120801)
 3861310.7 | 33.21411 (20120308)
 3861281.2 | 34.73163 (20120308)
 3861251.8 | 35.87966 (20120308)
 3861222.3 | 36.69663 (20120308)
 3861192.9 | 37.20816 (20120308)
 3861163.4 | 37.38766 (20120308)
 3861134.0 | 37.26430 (20120308)
 3861104.5 | 36.70154 (20120308)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1   ***
                                   INCLUDING SOURCE(S):   L0000494   , L0000495 , L0000496   , L0000497   , L0000498   ,
                L0000499   , L0000500   , L0000501   , L0000502   , L0000503 , L0000504   , L0000505   , L0000506   ,
                L0000507   , L0000508   , L0000509   , L0000510   , L0000511 , L0000512   , L0000513   , L0000514   ,
                L0000515   , L0000516   , L0000517   , L0000518   , L0000519 , L0000520   , L0000521   , . . .   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                               ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        488802.97   3861310.09      141.69988  (20112808)                488863.58
3861309.29      157.21602  (19120419)
        488847.63   3861279.78      151.09741  (20112808)                488850.82
3861262.24      155.57071  (16102717)
        488810.14   3861261.44      152.36316  (16102717)                488810.94
3861289.36      143.19753  (16102717)
        488819.72   3861306.90      144.45425  (20112808)                488816.53
3861235.92      156.12069  (16102717)
        488841.25   3861126.66      178.48051  (16020308)                488879.53
3861121.88      192.57944  (16020308)
        488913.82   3861121.08      205.17868  (16020308)                488925.79
3861092.37      212.00086  (16020308)
        488920.03   3861067.49      203.02430  (16020308)                488996.74
3861113.92      244.73579  (16020308)
        488974.03   3861097.77      232.82047  (16020308)                488931.63
3860976.64      219.65378  (16020308)
        488935.67   3861034.68      206.92225  (16020308)                488959.90
3861061.43      210.01396  (16020308)
        489165.81   3861208.80      643.05625  (18010720)                489317.74
3861109.28      373.13594  (19122119)
        489385.87   3861014.75      258.33493  (16122308)                489372.24
3861112.69      289.43086  (20010318)
        489420.79   3861106.73      236.41908  (16122308)                489436.12
3861037.74      217.17220  (16122308)
        489488.07   3861036.89      200.46986  (20120308)                489473.59
3861110.99      204.82712  (20120308)
        489431.01   3861167.20      235.08488  (20010318)                489662.66
3860915.95      147.79186  (20120308)
        489644.78   3861076.07      153.49210  (20120308)                489659.26
3861099.06      147.56230  (20120308)
        489735.91   3861020.71      136.70228  (20120308)                489700.14
3861029.23      143.29689  (20120308)
        489708.65   3861062.44      141.78783  (20120308)                489779.34
3861099.06      127.75529  (20120308)
        489835.95   3859138.59      103.24298  (16010405)                489885.95
3859138.59      101.84308  (16122521)
        489935.95   3859138.59       97.46909  (20011520)                489985.95
3859138.59       99.24550  (15121808)
        490035.95   3859138.59       97.95617  (15121808)                490085.95
3859138.59       88.12765  (15121808)
        490135.95   3859138.59       78.85750  (20103119)                490185.95
3859138.59       76.57182  (20121324)
        490235.95   3859138.59       79.68544  (20121324)                490285.95
3859138.59       74.71654  (20121324)
        490335.95   3859138.59       63.22453  (20121324)                490385.95
3859138.59       50.77600  (15013024)
        490435.95   3859138.59       50.02475  (15013024)                490485.95
3859138.59       43.52845  (15013024)
        490535.95   3859138.59       38.01224  (19122909)                490585.95
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3859138.59   36.69943 (19122909)
        490635.95   3859138.59   34.07783 (19122909)   490685.95
3859138.59   30.46819 (19122909)
        490735.95   3859138.59   26.23797 (19122909)   490785.95
3859138.59   21.75476 (19122909)
        490835.95   3859138.59   17.36206 (19122909)   490885.95
3859138.59   14.16223 (15031607)
        489835.95   3859188.59   104.49294 (16122521)   489885.95
3859188.59   103.00999 (16122521)
        489935.95   3859188.59   100.73507 (20011520)   489985.95
3859188.59   104.58543 (15121808)
        490035.95   3859188.59   99.77664 (15121808)   490085.95
3859188.59   87.80349 (15121808)
        490135.95   3859188.59   77.91456 (20103119)   490185.95
3859188.59   82.21864 (20121324)
        490235.95   3859188.59   80.04033 (20121324)   490285.95
3859188.59   72.05875 (20121324)
        490335.95   3859188.59   60.06579 (20121324)   490385.95
3859188.59   58.01151 (15013024)
        490435.95   3859188.59   51.29359 (15013024)   490485.95
3859188.59   40.24121 (15013024)
        490535.95   3859188.59   37.54977 (19122909)   490585.95
3859188.59   35.12365 (19122909)
        490635.95   3859188.59   31.60094 (19122909)   490685.95
3859188.59   27.35292 (19122909)
        490735.95   3859188.59   22.78518 (19122909)   490785.95
3859188.59   18.24998 (19122909)
        490835.95   3859188.59   15.36247 (15031607)   490885.95
3859188.59   13.94592 (16120808)
        489835.95   3859238.59   109.28262 (16122521)   489885.95
3859238.59   104.06986 (20011520)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1   ***
                                    INCLUDING SOURCE(S):   L0000494   , L0000495 , L0000496   , L0000497   , L0000498   ,
                L0000499   , L0000500   , L0000501   , L0000502   , L0000503 , L0000504   , L0000505   , L0000506   ,
                L0000507   , L0000508   , L0000509   , L0000510   , L0000511 , L0000512   , L0000513   , L0000514   ,
                L0000515   , L0000516   , L0000517   , L0000518   , L0000519 , L0000520   , L0000521   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
489935.95	3859238.59	107.91986	(15121808)	489985.95	3859238.59	105.32388	(15121808)
490035.95	3859238.59	96.49018	(15121808)	490085.95	3859238.59	85.69257	(20103119)
490135.95	3859238.59	84.80724	(20121324)	490185.95	3859238.59	87.12431	(20121324)
490235.95	3859238.59	80.92443	(20121324)	490285.95	3859238.59	68.86208	(20121324)
490335.95	3859238.59	63.81899	(15013024)	490385.95	3859238.59	60.29292	(15013024)
490435.95	3859238.59	52.87490	(15013024)	490485.95	3859238.59	45.40349	(16010120)
490535.95	3859238.59	38.92179	(19111222)	490585.95	3859238.59	33.84694	(19111222)
490635.95	3859238.59	28.54163	(19122909)	490685.95	3859238.59	24.92167	(19111222)
490735.95	3859238.59	19.42258	(15031607)	490785.95	3859238.59	18.32263	(15031607)
490835.95	3859238.59	16.69316	(15031607)	490885.95	3859238.59	15.62570	(20102217)
489835.95	3859288.59	112.11842	(16122521)	489885.95	3859288.59	108.09775	(20011520)
489935.95	3859288.59	113.58248	(15121808)	489985.95	3859288.59	104.32501	(15121808)
490035.95	3859288.59	91.98348	(15121808)	490085.95	3859288.59	84.53539	(20121324)
490135.95	3859288.59	90.10652	(20121324)	490185.95	3859288.59	88.29809	(20121324)
490235.95	3859288.59	79.02616	(20121324)	490285.95	3859288.59	72.26816	(15013024)
490335.95	3859288.59	68.81313	(15013024)	490385.95	3859288.59	61.03345	(15013024)
490435.95	3859288.59	50.21205	(16010120)	490485.95	3859288.59	48.40962	(16010120)
490535.95	3859288.59	48.41042	(19111222)	490585.95	3859288.59	40.44541	(19111222)
490635.95	3859288.59	36.32903	(19111222)	490685.95	3859288.59	30.92762	(19111222)
490735.95	3859288.59	22.77476	(19111222)	490785.95	3859288.59	20.18314	(15031607)

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        490835.95   3859288.59       18.53472  (20102217)                490885.95
3859288.59       17.84856  (20102217)
        489835.95   3859338.59      112.53681  (16122521)                489885.95
3859338.59      117.28411  (15121808)
        489935.95   3859338.59      116.32344  (15121808)                489985.95
3859338.59      105.19546  (15121808)
        490035.95   3859338.59       90.92591  (20103119)                490085.95
3859338.59       92.44755  (20121324)
        490135.95   3859338.59       93.46790  (20121324)                490185.95
3859338.59       87.66084  (20121324)
        490235.95   3859338.59       79.24410  (15020404)                490285.95
3859338.59       78.67080  (15013024)
        490335.95   3859338.59       72.73792  (15013024)                490385.95
3859338.59       64.47165  (15013024)
        490435.95   3859338.59       60.26621  (16010120)                490485.95
3859338.59       54.87189  (19111222)
        490535.95   3859338.59       52.19500  (19111222)                490585.95
3859338.59       47.02216  (19111222)
        490635.95   3859338.59       41.61776  (19111222)                490685.95
3859338.59       33.31375  (19111222)
        490735.95   3859338.59       26.52044  (16031518)                490785.95
3859338.59       22.90831  (20091005)
        490835.95   3859338.59       22.17763  (20091005)                490885.95
3859338.59       21.84987  (19021208)
        489835.95   3859388.59      116.34773  (20011520)                489885.95
3859388.59      123.38884  (15121808)
        489935.95   3859388.59      119.39094  (15121808)                489985.95
3859388.59      102.14197  (15121808)
        490035.95   3859388.59       93.49578  (20121324)                490085.95
3859388.59       97.56770  (20121324)
        490135.95   3859388.59       94.45250  (20121324)                490185.95
3859388.59       85.89655  (15020404)
        490235.95   3859388.59       84.83176  (15013024)                490285.95
3859388.59       83.38250  (15013024)
        490335.95   3859388.59       76.22396  (15013024)                490385.95
3859388.59       71.13212  (16010120)
        490435.95   3859388.59       67.24795  (16010120)                490485.95
3859388.59       63.63019  (19111222)
        490535.95   3859388.59       58.60000  (19111222)                490585.95
3859388.59       51.63079  (19111222)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 705
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK1   ***
```

INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490635.95	3859388.59	44.14727	(19111222)	490685.95	3859388.59	34.75803	(20022004)
490735.95	3859388.59	26.40573	(19120107)	490785.95	3859388.59	25.51800	(20091005)
490835.95	3859388.59	26.65982	(19021208)	490885.95	3859388.59	26.16313	(19021208)
489835.95	3859438.59	127.07209	(15121808)	489885.95	3859438.59	128.88052	(15121808)
489935.95	3859438.59	117.31087	(15121808)	489985.95	3859438.59	98.84920	(20103119)
490035.95	3859438.59	100.29581	(20121324)	490085.95	3859438.59	99.65511	(20121324)
490135.95	3859438.59	92.56424	(20121324)	490185.95	3859438.59	89.12633	(15013024)
490235.95	3859438.59	89.51695	(15013024)	490285.95	3859438.59	85.04319	(15013024)
490335.95	3859438.59	79.07494	(16010120)	490385.95	3859438.59	75.62471	(16010120)
490435.95	3859438.59	71.02913	(19111222)	490485.95	3859438.59	66.76500	(19111222)
490535.95	3859438.59	60.94399	(19111222)	490585.95	3859438.59	54.47614	(20022004)
490635.95	3859438.59	48.53458	(20022004)	490685.95	3859438.59	41.43694	(19120107)
490735.95	3859438.59	37.64079	(19120107)	490785.95	3859438.59	32.79420	(19120107)
490835.95	3859438.59	30.83030	(18031023)	490885.95	3859438.59	29.61345	(18031023)
490085.95	3859488.59	99.09855	(20121324)	490135.95	3859488.59	94.32194	(15020404)
490185.95	3859488.59	94.39177	(15013024)	490235.95			

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3859488.59       91.81438  (15013024)
        490285.95   3859488.59       84.66664  (16010120)                490335.95
3859488.59       83.02208  (16010120)
        490385.95   3859488.59       77.31561  (16010120)                490435.95
3859488.59       74.06522  (19111222)
        490485.95   3859488.59       68.44382  (19111222)                490535.95
3859488.59       63.36827  (20022004)
        490585.95   3859488.59       57.90553  (20120808)                490635.95
3859488.59       52.81296  (20120808)
        490685.95   3859488.59       48.40369  (19120107)                490735.95
3859488.59       42.96708  (19120107)
        490785.95   3859488.59       37.92915  (19120107)                490835.95
3859488.59       35.27416  (18031023)
        490885.95   3859488.59       36.07459  (18011120)                490085.95
3859538.59       98.95538  (15020404)
        490135.95   3859538.59       97.79750  (15013024)                490185.95
3859538.59       96.73055  (15013024)
        490235.95   3859538.59       91.53930  (15013024)                490285.95
3859538.59       88.67115  (16010120)
        490335.95   3859538.59       84.16718  (16010120)                490385.95
3859538.59       79.60648  (19111222)
        490435.95   3859538.59       74.74819  (19111222)                490485.95
3859538.59       70.98129  (20022004)
        490535.95   3859538.59       67.11054  (20120808)                490585.95
3859538.59       61.90520  (20120808)
        490635.95   3859538.59       56.74053  (19120107)                490685.95
3859538.59       52.22258  (19120107)
        490735.95   3859538.59       46.12501  (19120107)                490785.95
3859538.59       42.62921  (18011120)
        490835.95   3859538.59       43.53187  (18011120)                490885.95
3859538.59       41.05406  (18011120)
        490135.95   3859588.59      100.90253  (15013024)                490185.95
3859588.59       96.35627  (15013024)
        490235.95   3859588.59       92.44586  (16010120)                490285.95
3859588.59       89.30881  (16010120)
        490335.95   3859588.59       83.70341  (19111222)                490385.95
3859588.59       79.83528  (19111222)
        490435.95   3859588.59       77.84411  (20022004)                490485.95
3859588.59       74.75672  (20120808)
        490535.95   3859588.59       70.10993  (20120808)                490585.95
3859588.59       64.51751  (19120107)
        490635.95   3859588.59       59.24127  (19120107)                490685.95
3859588.59       54.02417  (19120107)
        490735.95   3859588.59       50.02478  (18011120)                490785.95
3859588.59       50.02258  (18011120)
        490835.95   3859588.59       49.25439  (18011120)                490885.95
3859588.59       46.64200  (18011120)
        490135.95   3859638.59      100.06120  (15013024)                490185.95
3859638.59       95.60936  (16010120)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK1   ***
                                INCLUDING SOURCE(S):   L0000494   , L0000495
, L0000496   , L0000497   , L0000498   ,
                  L0000499   , L0000500   , L0000501   , L0000502   , L0000503
, L0000504   , L0000505   , L0000506   ,
                  L0000507   , L0000508   , L0000509   , L0000510   , L0000511
, L0000512   , L0000513   , L0000514   ,
                  L0000515   , L0000516   , L0000517   , L0000518   , L0000519
, L0000520   , L0000521   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        490235.95   3859638.59   93.05059 (16010120)   490285.95
3859638.59   87.46071 (16010120)
        490335.95   3859638.59   83.58353 (20022004)   490385.95
3859638.59   82.35600 (20120808)
        490435.95   3859638.59   80.65432 (20120808)   490485.95
3859638.59   76.62022 (20120808)
        490535.95   3859638.59   71.18962 (20120808)   490585.95
3859638.59   66.64100 (19120107)
        490635.95   3859638.59   60.50268 (19120107)   490685.95
3859638.59   56.90855 (18011120)
        490735.95   3859638.59   56.84528 (18011120)   490785.95
3859638.59   55.55798 (18011120)
        490835.95   3859638.59   53.87039 (18011120)   490885.95
3859638.59   51.65392 (18011120)
        490135.95   3859688.59   99.23977 (16010120)   490185.95
3859688.59   96.82889 (16010120)
        490235.95   3859688.59   91.39746 (16010120)   490285.95
3859688.59   86.29309 (19111222)
        490335.95   3859688.59   85.95996 (20120808)   490385.95
3859688.59   85.07296 (20120808)
        490435.95   3859688.59   81.18495 (20120808)   490485.95
3859688.59   76.20481 (20120808)

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        490535.95   3859688.59       71.04065  (19120107)              490585.95
3859688.59       66.47136  (19120107)
        490635.95   3859688.59       62.87486  (18011120)              490685.95
3859688.59       62.94779  (18011120)
        490735.95   3859688.59       61.33435  (18011120)              490785.95
3859688.59       58.98326  (18011120)
        490835.95   3859688.59       56.69778  (18011120)              490885.95
3859688.59       55.77224  (18011120)
        490085.95   3859738.59      104.28996  (15013024)              490135.95
3859738.59      100.73168  (16010120)
        490185.95   3859738.59       95.49327  (16010120)              490235.95
3859738.59       89.70780  (20022004)
        490285.95   3859738.59       89.47236  (20120808)              490335.95
3859738.59       88.15846  (20120808)
        490385.95   3859738.59       84.10325  (20120808)              490435.95
3859738.59       80.03086  (20120808)
        490485.95   3859738.59       74.82361  (19120107)              490535.95
3859738.59       70.81151  (19120107)
        490585.95   3859738.59       67.54434  (18011120)              490635.95
3859738.59       68.09951  (18011120)
        490685.95   3859738.59       67.06713  (18011120)              490735.95
3859738.59       65.16227  (18011120)
        490785.95   3859738.59       62.98008  (18011120)              490835.95
3859738.59       60.46414  (19120108)
        490885.95   3859738.59       60.88943  (19120108)              490085.95
3859788.59      104.76250  (16010120)
        490135.95   3859788.59       99.79326  (16010120)              490185.95
3859788.59       93.19960  (20022004)
        490235.95   3859788.59       92.80977  (20120808)              490285.95
3859788.59       91.35223  (20120808)
        490335.95   3859788.59       88.98108  (20120808)              490385.95
3859788.59       84.57346  (20120808)
        490435.95   3859788.59       78.81024  (19120107)              490485.95
3859788.59       74.37183  (19120107)
        490535.95   3859788.59       71.17662  (18011120)              490585.95
3859788.59       71.98252  (18011120)
        490635.95   3859788.59       71.10632  (18011120)              490685.95
3859788.59       69.30484  (18011120)
        490735.95   3859788.59       67.75799  (19120108)              490785.95
3859788.59       68.80432  (19120108)
        490835.95   3859788.59       67.92313  (19120108)              490885.95
3859788.59       63.71685  (19120108)
        490085.95   3859838.59      104.19666  (16010120)              490135.95
3859838.59       96.87442  (19111222)
        490185.95   3859838.59       96.08778  (20120808)              490235.95
3859838.59       93.93675  (20120808)
        490285.95   3859838.59       90.94895  (20120808)              490335.95
3859838.59       87.12814  (20120808)
        490385.95   3859838.59       82.06110  (19120107)              490435.95
3859838.59       77.16881  (19120107)
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 ,
L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 ,
L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 ,
L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490885.95	3859838.59	68.49060	(19120108)	490085.95	3859888.59	101.40930	(16010120)
490135.95	3859888.59	99.65314	(20120808)	490185.95	3859888.59	97.04483	(20120808)
490235.95	3859888.59	93.79382	(20120808)	490285.95	3859888.59	89.78695	(20120808)
490335.95	3859888.59	84.41174	(19120107)	490385.95	3859888.59	79.41491	(19120107)
490435.95	3859888.59	75.44794	(19122324)	490485.95	3859888.59	75.24040	(18011120)
490535.95	3859888.59	75.58116	(18011120)	490585.95	3859888.59	77.20723	(19120108)
490635.95	3859888.59	78.79026	(19120108)	490685.95			

3859888.59 79.15444 (19120108)
490735.95 3859888.59 78.67168 (19120108) 490785.95
3859888.59 77.77460 (19120108)
490835.95 3859888.59 75.48845 (19120108) 490885.95
3859888.59 71.01073 (19120108)
490135.95 3859938.59 100.49018 (20120808) 490185.95
3859938.59 96.89598 (20120808)
490235.95 3859938.59 92.54943 (20120808) 490285.95
3859938.59 86.88728 (19120107)
490335.95 3859938.59 81.83249 (19120107) 490385.95
3859938.59 77.92629 (19122324)
490435.95 3859938.59 74.34718 (18011120) 490485.95
3859938.59 74.15592 (18011120)
490535.95 3859938.59 77.96604 (19120108) 490585.95
3859938.59 82.18245 (19120108)
490635.95 3859938.59 82.16258 (19120108) 490685.95
3859938.59 81.33831 (19120108)
490735.95 3859938.59 79.52986 (19120108) 490785.95
3859938.59 78.02655 (19120108)
490835.95 3859938.59 76.04363 (19120108) 490885.95
3859938.59 74.92222 (19120108)
490135.95 3859988.59 100.11314 (20120808) 490185.95
3859988.59 95.10272 (20120808)
490235.95 3859988.59 88.51913 (19120107) 490285.95
3859988.59 83.66017 (19120107)
490335.95 3859988.59 82.97629 (18011120) 490385.95
3859988.59 78.33911 (18011120)
490435.95 3859988.59 76.12219 (18011120) 490485.95
3859988.59 75.10639 (19120108)
490535.95 3859988.59 77.52457 (19120108) 490585.95
3859988.59 82.39791 (19120108)
490635.95 3859988.59 84.42886 (19120108) 490685.95
3859988.59 82.29294 (19120108)
490735.95 3859988.59 80.49403 (19120108) 490785.95
3859988.59 78.32652 (19120108)
490835.95 3859988.59 75.80435 (19120108) 490885.95
3859988.59 72.82538 (19120108)
490135.95 3860038.59 98.19754 (20120808) 490185.95
3860038.59 91.96248 (19120107)
490235.95 3860038.59 87.72211 (18011120) 490285.95
3860038.59 86.57409 (18011120)
490335.95 3860038.59 85.34015 (19120108) 490385.95
3860038.59 80.99665 (18011120)
490435.95 3860038.59 79.56495 (19120108) 490485.95
3860038.59 78.97315 (19120108)
490535.95 3860038.59 79.77847 (19120108) 490585.95
3860038.59 79.96523 (19120108)
490635.95 3860038.59 79.00416 (19120108) 490685.95
3860038.59 81.63447 (19120108)
490735.95 3860038.59 79.84831 (19120108) 490785.95

3860038.59   76.70708 (19120108)
        490835.95   3860038.59   72.82516 (19120108)   490885.95
3860038.59   68.35259 (19120708)
        490135.95   3860088.59   94.57333 (19120107)   490185.95
3860088.59   93.31677 (19120108)
        490235.95   3860088.59   92.71987 (19120108)   490285.95
3860088.59   93.72245 (19120108)
        490335.95   3860088.59   87.49036 (19120108)   490385.95
3860088.59   85.78212 (19120108)
        490435.95   3860088.59   83.78992 (19120108)   490485.95
3860088.59   81.62053 (19120108)
        490535.95   3860088.59   80.43196 (19120108)   490585.95
3860088.59   80.56885 (19120108)
        490635.95   3860088.59   77.90242 (19120108)   490685.95
3860088.59   77.73079 (19120108)
        490735.95   3860088.59   76.70664 (19120108)   490785.95
3860088.59   73.13301 (19120108)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1   ***
                                  INCLUDING SOURCE(S):   L0000494   , L0000495 , L0000496   , L0000497   , L0000498   ,
                  L0000499   , L0000500   , L0000501   , L0000502   , L0000503 , L0000504   , L0000505   , L0000506   ,
                  L0000507   , L0000508   , L0000509   , L0000510   , L0000511 , L0000512   , L0000513   , L0000514   ,
                  L0000515   , L0000516   , L0000517   , L0000518   , L0000519 , L0000520   , L0000521   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
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        490235.95   3860138.59       98.92625  (19120108)                490285.95
3860138.59       94.54570  (19120108)
        490335.95   3860138.59       92.86581  (19120108)                490385.95
3860138.59       89.04207  (19120108)
        490435.95   3860138.59       86.15227  (19120108)                490485.95
3860138.59       83.05965  (19120108)
        490535.95   3860138.59       81.21852  (19120108)                490585.95
3860138.59       78.79991  (19120108)
        490635.95   3860138.59       75.58773  (19120108)                490685.95
3860138.59       70.74495  (19120108)
        490735.95   3860138.59       68.32983  (19120708)                490785.95
3860138.59       66.66991  (19120708)
        490835.95   3860138.59       64.96909  (16010208)                490885.95
3860138.59       61.11589  (16010208)
        490935.95   3860138.59       57.89490  (16010208)                490985.95
3860138.59       56.93819  (18011822)
        491035.95   3860138.59       55.70667  (18011822)                490135.95
3860188.59      107.39580  (19120108)
        490185.95   3860188.59      106.31371  (19120108)                490235.95
3860188.59      100.46983  (19120108)
        490285.95   3860188.59       97.10684  (19120108)                490335.95
3860188.59       93.69762  (19120108)
        490385.95   3860188.59       91.21216  (19120108)                490435.95
3860188.59       87.49544  (19120108)
        490485.95   3860188.59       83.33967  (19120108)                490535.95
3860188.59       80.23001  (19120108)
        490585.95   3860188.59       77.19957  (19120108)                490635.95
3860188.59       69.97439  (19120708)
        490685.95   3860188.59       67.53419  (16010208)                490735.95
3860188.59       65.59860  (16010208)
        490785.95   3860188.59       63.29660  (16010208)                490835.95
3860188.59       60.89076  (16010208)
        490885.95   3860188.59       59.95906  (18011822)                490935.95
3860188.59       58.64960  (18011822)
        490985.95   3860188.59       57.10165  (18011822)                491035.95
3860188.59       55.55537  (15010721)
        491085.95   3860188.59       54.43315  (15010721)                491135.95
3860188.59       53.26083  (15010721)
        490135.95   3860238.59      105.75507  (19120108)                490185.95
3860238.59      105.22021  (19120108)
        490235.95   3860238.59      103.22812  (19120108)                490285.95
3860238.59      100.29131  (19120108)
        490335.95   3860238.59       96.49482  (19120108)                490385.95
3860238.59       93.10025  (19120108)
        490435.95   3860238.59       89.13825  (19120108)                490485.95
3860238.59       82.55115  (19120108)
        490535.95   3860238.59       76.72338  (19120108)                490585.95
3860238.59       71.03949  (16010208)
        490635.95   3860238.59       68.93171  (16010208)                490685.95
3860238.59       66.46757  (16010208)
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        490735.95   3860238.59       64.16834  (18011822)                490785.95
3860238.59       62.81846  (18011822)
        490835.95   3860238.59       61.37722  (18011822)                490885.95
3860238.59       59.61750  (18011822)
        490935.95   3860238.59       58.22527  (15010721)                490985.95
3860238.59       56.89604  (15010721)
        491035.95   3860238.59       55.51439  (15010721)                491085.95
3860238.59       54.00086  (15010721)
        491135.95   3860238.59       52.38728  (15010721)                490135.95
3860288.59      107.69263  (19120108)
        490185.95   3860288.59      106.56578  (19120108)                490235.95
3860288.59      104.89186  (19120108)
        490285.95   3860288.59      100.77691  (19120108)                490335.95
3860288.59       96.73207  (19120108)
        490385.95   3860288.59       92.08077  (19120108)                490435.95
3860288.59       86.14072  (19120108)
        490485.95   3860288.59       79.25108  (19120708)                490535.95
3860288.59       72.70954  (16010208)
        490585.95   3860288.59       69.97841  (16010208)                490635.95
3860288.59       67.56149  (18011822)
        490685.95   3860288.59       65.82177  (18011822)                490735.95
3860288.59       64.16471  (18011822)
        490785.95   3860288.59       62.48355  (19011921)                490835.95
3860288.59       60.99584  (19011921)
        490885.95   3860288.59       59.42081  (19011921)                490935.95
3860288.59       57.80654  (15010721)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 709
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK1   ***
                                 INCLUDING SOURCE(S):     L0000494    , L0000495
, L0000496    , L0000497    , L0000498    ,
                 L0000499    , L0000500    , L0000501    , L0000502    , L0000503
, L0000504    , L0000505    , L0000506    ,
                 L0000507    , L0000508    , L0000509    , L0000510    , L0000511
, L0000512    , L0000513    , L0000514    ,
                 L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490985.95	3860288.59	56.08539	(15010721)	491035.95	3860288.59	54.26678	(15010721)
491085.95	3860288.59	52.91350	(15120221)	490135.95	3860338.59	109.02809	(19120108)
490185.95	3860338.59	107.35439	(19120108)	490235.95	3860338.59	104.87197	(19120108)
490285.95	3860338.59	100.51124	(19120108)	490335.95	3860338.59	94.35005	(19120108)
490385.95	3860338.59	87.27600	(19120108)	490435.95	3860338.59	80.10278	(19120708)
490485.95	3860338.59	74.74261	(16010208)	490535.95	3860338.59	71.53421	(16010208)
490585.95	3860338.59	68.88310	(18011822)	490635.95	3860338.59	67.21789	(19011921)
490685.95	3860338.59	65.66418	(19011921)	490735.95	3860338.59	63.91424	(19011921)
490785.95	3860338.59	62.06405	(19011921)	490835.95	3860338.59	60.18992	(15010721)
490885.95	3860338.59	58.24725	(15010721)	490935.95	3860338.59	56.81098	(15120221)
490985.95	3860338.59	55.46586	(15120221)	491035.95	3860338.59	54.62710	(20010317)
491085.95	3860338.59	53.80871	(20010317)	490135.95	3860388.59	110.62742	(19120108)
490185.95	3860388.59	106.75902	(19120108)	490235.95	3860388.59	102.40407	(19120108)
490285.95	3860388.59	95.78163	(19120108)	490335.95	3860388.59	87.49478	(19120708)
490385.95	3860388.59	81.69480	(16010208)	490435.95	3860388.59	76.75965	(16010208)
490485.95	3860388.59	73.36063	(16010208)	490535.95	3860388.59	70.08065	(19011921)
490585.95	3860388.59	68.50912	(19011921)	490635.95	3860388.59	67.01553	(19011921)
490685.95	3860388.59	64.93536	(19011921)	490735.95	3860388.59	62.78364	(19011921)
490785.95	3860388.59	61.51944	(20010317)	490835.95	3860388.59	60.47299	(20010317)
490135.95	3860438.59	108.37807	(19120108)	490185.95	3860438.59	103.74150	(19120108)
490235.95	3860438.59	95.74730	(19120108)	490285.95	3860438.59	87.87196	(16010208)
490335.95	3860438.59	83.96624	(16010208)	490385.95	3860438.59	78.75436	(16010208)
490435.95	3860438.59	73.62428	(16010208)	490485.95			

3860438.59   71.75538 (19011921)
        490535.95   3860438.59   70.09512 (20010317)   490585.95
3860438.59   68.67321 (20010317)
        490635.95   3860438.59   67.24215 (20010317)   490685.95
3860438.59   65.82201 (20010317)
        490735.95   3860438.59   64.43355 (20010317)   490785.95
3860438.59   63.06144 (20010317)
        490835.95   3860438.59   61.72881 (20010317)   490135.95
3860488.59   104.67125 (19120108)
        490185.95   3860488.59   95.13643 (19120708)   490235.95
3860488.59   89.84000 (16010208)
        490285.95   3860488.59   86.74397 (16010208)   490335.95
3860488.59   79.44151 (16010208)
        490385.95   3860488.59   76.99331 (20010317)   490435.95
3860488.59   74.82643 (20010317)
        490485.95   3860488.59   73.22593 (20010317)   490535.95
3860488.59   71.59776 (20010317)
        490585.95   3860488.59   69.89374 (20010317)   490635.95
3860488.59   68.20150 (20010317)
        490685.95   3860488.59   66.54938 (20010317)   490735.95
3860488.59   64.93638 (20010317)
        490785.95   3860488.59   63.34475 (20010317)   490135.95
3860538.59   97.64132 (16010208)
        490185.95   3860538.59   95.38315 (16010208)   490235.95
3860538.59   86.24293 (16010208)
        490285.95   3860538.59   82.51627 (20010317)   490335.95
3860538.59   79.94839 (20010317)
        490385.95   3860538.59   77.46415 (20010317)   490435.95
3860538.59   75.30772 (20010317)
        490485.95   3860538.59   73.26548 (20010317)   490535.95
3860538.59   70.14821 (20010317)
        490585.95   3860538.59   70.00962 (20010317)   490635.95
3860538.59   68.15076 (20010317)
        490685.95   3860538.59   66.29299 (20010317)   490735.95
3860538.59   64.44048 (20010317)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1   ***
                                   INCLUDING SOURCE(S):   L0000494   , L0000495 , L0000496   , L0000497   , L0000498   ,
                L0000499   , L0000500   , L0000501   , L0000502   , L0000503 , L0000504   , L0000505   , L0000506   ,
                L0000507   , L0000508   , L0000509   , L0000510   , L0000511

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, L0000512    , L0000513    , L0000514    ,
                L0000515    , L0000516    , L0000517    , L0000518    , L0000519
, L0000520    , L0000521    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        490785.95   3860538.59       62.58218  (20010317)                490135.95
3860588.59       96.60370  (16010208)
        490185.95   3860588.59       88.91267  (20010317)                490235.95
3860588.59       85.70004  (20010317)
        490285.95   3860588.59       82.75040  (20010317)                490335.95
3860588.59       80.35255  (20010317)
        490385.95   3860588.59       78.01158  (20010317)                490435.95
3860588.59       74.00817  (20010317)
        490485.95   3860588.59       73.69050  (15120221)                490535.95
3860588.59       69.82424  (20010317)
        490585.95   3860588.59       69.31530  (20010317)                490635.95
3860588.59       67.14857  (20010317)
        490685.95   3860588.59       64.96978  (20010317)                490735.95
3860588.59       63.17298  (19122321)
        490785.95   3860588.59       61.61987  (20122021)                490135.95
3860638.59       95.63869  (19011921)
        490185.95   3860638.59       89.62554  (19011921)                490235.95
3860638.59       85.43880  (20010317)
        490285.95   3860638.59       82.96928  (20010317)                490335.95
3860638.59       80.21515  (20010317)
        490385.95   3860638.59       77.59087  (20010317)                490435.95
3860638.59       75.04601  (20010317)
        490485.95   3860638.59       72.47635  (20010317)                490535.95
3860638.59       70.18126  (19122321)
        490585.95   3860638.59       68.30449  (19122321)                490635.95
3860638.59       66.55943  (20122021)
        490685.95   3860638.59       64.92568  (20122021)                490735.95
3860638.59       63.30163  (20122021)
        490785.95   3860638.59       61.77909  (20122021)                490135.95
3860688.59       90.49837  (19011921)
        490185.95   3860688.59       93.58054  (20010317)                490235.95
3860688.59       82.95752  (20010317)
        490285.95   3860688.59       82.14436  (20010317)                490335.95
3860688.59       78.94864  (20010317)
        490385.95   3860688.59       76.33732  (19122321)                490435.95
3860688.59       74.05275  (19122321)
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        490485.95   3860688.59       71.88213  (20122021)                490535.95
3860688.59       69.93915  (20122021)
        490585.95   3860688.59       68.07542  (20122021)                490635.95
3860688.59       66.27883  (20122021)
        490685.95   3860688.59       64.54127  (20122021)                490735.95
3860688.59       62.83022  (20122021)
        490785.95   3860688.59       61.29091  (19013104)                490135.95
3860738.59       90.82864  (20010317)
        490185.95   3860738.59       87.16205  (20010317)                490235.95
3860738.59       83.88010  (19122321)
        490285.95   3860738.59       81.16015  (19013104)                490335.95
3860738.59       78.65767  (19013104)
        490385.95   3860738.59       76.32947  (19013104)                490435.95
3860738.59       74.11184  (19013104)
        490485.95   3860738.59       72.09069  (19013104)                490535.95
3860738.59       70.01592  (19013104)
        490585.95   3860738.59       68.10723  (19013104)                490635.95
3860738.59       66.35405  (19013104)
        490685.95   3860738.59       64.77428  (19013104)                490735.95
3860738.59       63.23919  (19013104)
        490785.95   3860738.59       61.77444  (19013104)                490135.95
3860788.59       94.14660  (20120308)
        490185.95   3860788.59       89.98824  (20120308)                490235.95
3860788.59       86.03060  (15121708)
        490285.95   3860788.59       82.82061  (15121708)                490335.95
3860788.59       79.67481  (15121708)
        490385.95   3860788.59       77.05456  (15121708)                490435.95
3860788.59       74.37876  (18121424)
        490485.95   3860788.59       72.39457  (18121424)                490535.95
3860788.59       70.38181  (18121424)
        490585.95   3860788.59       68.24938  (18121424)                490635.95
3860788.59       66.41791  (18121424)
        490685.95   3860788.59       64.80583  (18121424)                490735.95
3860788.59       63.36796  (18121424)
        490785.95   3860788.59       61.82969  (18121424)                489985.95
3860838.59      107.33505  (20120308)
        490035.95   3860838.59      103.45535  (20120308)                490085.95
3860838.59       99.97458  (20120308)
        490135.95   3860838.59       96.54548  (20120308)                490185.95
3860838.59       92.69984  (20120308)
        490235.95   3860838.59       89.13229  (20120308)                490285.95
3860838.59       85.98733  (20120308)
        490335.95   3860838.59       82.68686  (20120308)                490385.95
3860838.59       79.64349  (20120308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK1 ***
INCLUDING SOURCE(S): L0000494 , L0000495 , L0000496 , L0000497 , L0000498 ,
L0000499 , L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 ,
L0000507 , L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 ,
L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490435.95	3860838.59	76.99274	(20120308)	490485.95	3860838.59	74.44495	(15121708)
490535.95	3860838.59	72.10713	(15121708)	490585.95	3860838.59	69.66154	(15121708)
490635.95	3860838.59	67.31175	(15121708)	490685.95	3860838.59	65.30165	(15121708)
490735.95	3860838.59	63.53946	(15121708)	490785.95	3860838.59	61.80108	(19013106)
490835.95	3860838.59	60.32750	(19013106)	489835.95	3860888.59	122.56892	(20120308)
489885.95	3860888.59	117.06888	(20120308)	489935.95	3860888.59	112.14908	(20120308)
489985.95	3860888.59	107.92457	(20120308)	490035.95	3860888.59	103.98634	(20120308)
490085.95	3860888.59	100.51829	(20120308)	490135.95	3860888.59	96.94112	(20120308)
490185.95	3860888.59	93.35050	(20120308)	490235.95	3860888.59	90.15361	(20120308)
490285.95	3860888.59	87.11120	(20120308)	490335.95	3860888.59	84.12136	(20120308)
490385.95	3860888.59	81.62898	(20120308)	490435.95	3860888.59	79.30418	(20120308)
490485.95	3860888.59	76.85865	(20120308)	490535.95	3860888.59	74.40088	(20120308)
490585.95	3860888.59	71.89840	(20120308)	490635.95	3860888.59	69.40065	(20120308)
490685.95	3860888.59	67.14174	(20120308)	490735.95			

3860888.59 65.26488 (15121708)
490785.95 3860888.59 63.45934 (15121708) 490835.95
3860888.59 61.91552 (15121708)
490885.95 3860888.59 60.58172 (15121708) 490935.95
3860888.59 59.06550 (15121708)
489835.95 3860938.59 122.74354 (20120308) 489885.95
3860938.59 116.97662 (20120308)
489935.95 3860938.59 112.26186 (20120308) 489985.95
3860938.59 107.95315 (20120308)
490035.95 3860938.59 103.91792 (20120308) 490085.95
3860938.59 100.15339 (20120308)
490135.95 3860938.59 96.18919 (20120308) 490185.95
3860938.59 93.10769 (20120308)
490235.95 3860938.59 90.13810 (20120308) 490285.95
3860938.59 87.41594 (20120308)
490335.95 3860938.59 84.51214 (20120308) 490385.95
3860938.59 82.23776 (20120308)
490435.95 3860938.59 80.03756 (20120308) 490485.95
3860938.59 77.72177 (20120308)
490535.95 3860938.59 75.54956 (20120308) 490585.95
3860938.59 73.26125 (20120308)
490635.95 3860938.59 71.05615 (20120308) 490685.95
3860938.59 69.01524 (20120308)
490735.95 3860938.59 67.05631 (20120308) 490785.95
3860938.59 65.19510 (20120308)
490835.95 3860938.59 63.66475 (20120308) 490885.95
3860938.59 62.21838 (20120308)
490935.95 3860938.59 60.51753 (20120308) 489835.95
3860988.59 123.58149 (20120308)
489885.95 3860988.59 117.98255 (20120308) 489935.95
3860988.59 112.85167 (20120308)
489985.95 3860988.59 108.25981 (20120308) 490035.95
3860988.59 103.97404 (20120308)
490085.95 3860988.59 100.24365 (20120308) 490135.95
3860988.59 96.56419 (20120308)
490185.95 3860988.59 93.53800 (20120308) 490235.95
3860988.59 90.11535 (20120308)
490285.95 3860988.59 87.15735 (20120308) 490335.95
3860988.59 84.55458 (20120308)
490385.95 3860988.59 82.16397 (20120308) 490435.95
3860988.59 80.22494 (20120308)
490485.95 3860988.59 77.97479 (20120308) 490535.95
3860988.59 75.69324 (20120308)
490585.95 3860988.59 73.58338 (20120308) 490635.95
3860988.59 71.68156 (20120308)
490685.95 3860988.59 69.68978 (20120308) 490735.95
3860988.59 67.75541 (20120308)
490785.95 3860988.59 66.08446 (20120308) 490835.95
3860988.59 64.62512 (20120308)
490885.95 3860988.59 63.33578 (20120308) 490935.95

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK1   ***
                                   INCLUDING SOURCE(S):   L0000494   , L0000495
, L0000496   , L0000497   , L0000498   ,
                  L0000499   , L0000500   , L0000501   , L0000502   , L0000503
, L0000504   , L0000505   , L0000506   ,
                  L0000507   , L0000508   , L0000509   , L0000510   , L0000511
, L0000512   , L0000513   , L0000514   ,
                  L0000515   , L0000516   , L0000517   , L0000518   , L0000519
, L0000520   , L0000521   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        489935.95   3861038.59   112.88126 (20120308)   489985.95
3861038.59   108.00264 (20120308)
        490035.95   3861038.59   103.72783 (20120308)   490085.95
3861038.59   99.82913 (20120308)
        490135.95   3861038.59   96.25776 (20120308)   490185.95
3861038.59   92.92073 (20120308)
        490235.95   3861038.59   89.95970 (20120308)   490285.95
3861038.59   86.83014 (20120308)
        490335.95   3861038.59   84.04550 (20120308)   490385.95
3861038.59   81.94710 (20120308)
        490435.95   3861038.59   79.94376 (20120308)   490485.95
3861038.59   77.76229 (20120308)
        490535.95   3861038.59   75.56131 (20120308)   490585.95
3861038.59   73.43527 (20120308)
        490635.95   3861038.59   71.38454 (20120308)   490685.95
3861038.59   69.47004 (20120308)
        490735.95   3861038.59   67.70065 (20120308)   490785.95
3861038.59   66.12620 (20120308)

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        490835.95   3861038.59       64.69036  (20120308)                490885.95
3861038.59       63.29229  (20120308)
        490935.95   3861038.59       61.99180  (20120308)                489835.95
3861088.59      122.63790  (20120308)
        489885.95   3861088.59      116.46983  (20120308)                489935.95
3861088.59      111.04400  (20120308)
        489985.95   3861088.59      106.10193  (20120308)                490035.95
3861088.59      101.75796  (20120308)
        490085.95   3861088.59       98.06246  (20120308)                490135.95
3861088.59       94.83747  (20120308)
        490185.95   3861088.59       91.97510  (20120308)                490235.95
3861088.59       88.62540  (20120308)
        490285.95   3861088.59       85.61247  (20120308)                490335.95
3861088.59       82.75347  (20120308)
        490385.95   3861088.59       80.59761  (20120308)                490435.95
3861088.59       78.36861  (20120308)
        490485.95   3861088.59       76.26917  (20120308)                490535.95
3861088.59       74.41731  (20120308)
        490585.95   3861088.59       72.33212  (20120308)                490635.95
3861088.59       70.20900  (20120308)
        490685.95   3861088.59       68.35596  (20120308)                490735.95
3861088.59       66.72612  (20120308)
        490785.95   3861088.59       65.18557  (20120308)                490835.95
3861088.59       63.74925  (20120308)
        490885.95   3861088.59       62.40688  (20120308)                490935.95
3861088.59       61.19683  (20120308)
        489020.79   3862564.85       78.79599  (20022108)                489043.15
3862350.21       90.83999  (15010903)
        489072.96   3862287.60       97.22045  (15010903)                488980.55
3862078.92      116.59165  (15020218)
        489037.19   3862822.72       63.36261  (20022108)                489120.66
3863016.49       55.10092  (19121703)
        489037.19   3863350.37       44.06468  (19121703)

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 713
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                   INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
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L0000560 , L0000561 , L0000562 , L0000563 , L0000564
, L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	489237.26	489256.56	489275.86	489295.16	489314.46
3859957.1	12.27274 (16122020)	12.11271 (16122020)	12.01760 (16122020)	11.95709 (15121719)	11.91162 (15121719)
3859937.6	12.01259 (16122020)	11.88205 (15121719)	11.87530 (15121719)	11.86599 (15121719)	11.82259 (15121719)
3859918.2	11.84223 (15121719)	11.77766 (15121719)	11.77091 (15121719)	11.73116 (15121719)	11.71844 (15121719)
3859898.8	11.74955 (15121719)	11.70092 (15121719)	11.69546 (15121719)	11.67425 (15121719)	11.66347 (15121719)
3859879.4	11.66796 (15121719)	11.63623 (15121719)	11.65560 (15121719)	11.65160 (15121719)	11.63196 (15121719)
3859860.0	11.57760 (15121719)	11.54758 (15121719)	11.55532 (15121719)	11.55077 (15121719)	11.53077 (15121719)
3859840.5	11.47968 (15121719)	11.44953 (15121719)	11.44555 (15121719)	11.43973 (15121719)	11.43105 (15121719)
3859821.1	11.37440 (15121719)	11.34241 (15121719)	11.31284 (15121719)	11.30447 (15121719)	11.30748 (15121719)
3859801.7	11.26103 (15121719)	11.22461 (15121719)	11.21748 (15121719)	11.19603 (15121719)	11.21102 (15121719)
3859782.3	11.15806 (15121719)	11.11987 (15121719)	11.12340 (15121719)	11.07505 (15121719)	11.10328 (15121719)
3859762.9	11.06600 (15121719)	11.02770 (15121719)	11.01899 (15121719)	10.98253 (15121719)	10.98304 (15121719)
3859743.4	10.97508 (15121719)	10.93673 (15121719)	10.91591 (15121719)	10.89129 (15121719)	10.87829 (15121719)
3859724.0	10.87581 (15121719)	10.84692 (15121719)	10.82593 (15121719)	10.80127 (15121719)	10.78808 (15121719)
3859704.6	10.77761 (15121719)	10.73644 (15121719)	10.73710 (15121719)	10.71239 (15121719)	10.71148 (15121719)
3859685.2	10.67951 (15121719)	10.64920 (15121719)	10.66035 (15121719)	10.64882 (15121719)	10.64772 (15121719)
3859665.8	10.59327 (15121719)	10.57355 (15121719)	10.58379 (15121719)	10.59347 (15121719)	10.58149 (15121719)
3859646.4	10.49819 (15121719)	10.47748 (15121719)	10.46542 (15121719)	10.47432 (15121719)	10.44788 (15121719)
3859626.9	10.40395 (15121719)	10.38221 (15121719)	10.34559 (15121719)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489333.76	489353.06	489372.36	489391.66	489410.96
3859957.1	11.83986 (15121719)	11.78037 (15121719)	11.67000 (15121719)	11.49668 (15121719)	11.29932 (15121719)
3859937.6	11.79175 (15121719)	11.75616 (15121719)	11.67551 (15121719)	11.54162 (15121719)	11.39112 (15121719)
3859918.2	11.70489 (15121719)	11.67051 (15121719)	11.57267 (15121719)	11.44108 (15121719)	11.26650 (15121719)
3859898.8	11.65181 (15121719)	11.62067 (15121719)	11.54979 (15121719)	11.44903 (15121719)	11.29135 (15121719)
3859879.4	11.62344 (15121719)	11.58367 (15121719)	11.53691 (15121719)	11.46553 (15121719)	11.38706 (15121719)
3859860.0	11.52176 (15121719)	11.49668 (15121719)	11.46718 (15121719)	11.40108 (15121719)	11.34544 (15121719)

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 3859840.5 |     11.42157 (15121719)     11.39639 (15121719)     11.38295 (15121719)
    11.33557 (15121719)     11.28324 (15121719)
 3859821.1 |     11.29633 (15121719)     11.28361 (15121719)     11.26836 (15121719)
    11.25278 (15121719)     11.21883 (15121719)
 3859801.7 |     11.22559 (15121719)     11.18664 (15121719)     11.18666 (15121719)
    11.18620 (15121719)     11.16943 (15121719)
 3859782.3 |     11.12975 (15121719)     11.09113 (15121719)     11.09077 (15121719)
    11.08994 (15121719)     11.08865 (15121719)
 3859762.9 |     10.98302 (15121719)     10.98249 (15121719)     10.92270 (15121719)
    10.92040 (15121719)     10.93290 (15121719)
 3859743.4 |     10.87761 (15121719)     10.86268 (15121719)     10.83099 (15121719)
    10.81325 (15121719)     10.80978 (15121719)
 3859724.0 |     10.77368 (15121719)     10.75706 (15121719)     10.75448 (15121719)
    10.73692 (15121719)     10.71808 (15121719)
 3859704.6 |     10.71002 (15121719)     10.69506 (15121719)     10.67884 (15121719)
    10.66015 (15121719)     10.65523 (15121719)
 3859685.2 |     10.63409 (15121719)     10.60546 (15121719)     10.57429 (15121719)
    10.55554 (15121719)     10.54919 (15121719)
 3859665.8 |     10.55680 (15121719)     10.51616 (15121719)     10.45788 (15121719)
    10.42218 (15121719)     10.41388 (15121719)
 3859646.4 |     10.43204 (15121719)     10.40103 (15121719)     10.36842 (15121719)
    10.33180 (15121719)     10.29217 (15121719)
 3859626.9 |     10.30661 (15121719)     10.29949 (15121719)     10.27821 (15121719)
    10.22564 (15121719)     10.18520 (15121719)
 3859607.5 |     10.20655 (15121719)     10.19756 (15121719)     10.17302 (15121719)
    10.11969 (15121719)     10.09093 (15121719)
 3859588.1 |     10.09250 (15121719)     10.06744 (15121719)     10.04122 (15121719)
     9.99817 (15121719)      9.96658 (15121719)
 3859568.7 |      9.96495 (15121719)      9.95114 (15121719)      9.90813 (15121719)
     9.87502 (15121719)      9.85410 (15121719)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 715
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                   INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                  L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
```

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	489430.26	489449.56	489468.86	489488.16	489507.46
3859957.1	11.11245 (15121719)	10.81043 (15121719)	10.58450 (15121719)	10.10602 (15121719)	9.83980 (15121719)
3859937.6	11.24957 (15121719)	11.03942 (15121719)	10.90643 (15121719)	10.67549 (15121719)	10.55645 (15121719)
3859918.2	11.04540 (15121719)	10.92020 (15121719)	10.87960 (15121719)	10.80763 (15121719)	10.73219 (15121719)
3859898.8	11.11399 (15121719)	10.91781 (15121719)	10.79285 (15121719)	10.75259 (15121719)	10.77148 (15121719)
3859879.4	11.27851 (15121719)	10.96220 (15121719)	10.70768 (15121719)	10.69739 (15121719)	10.85630 (15121719)
3859860.0	11.28497 (15121719)	11.13420 (15121719)	10.96431 (15121719)	10.90803 (15121719)	10.94980 (15121719)
3859840.5	11.24444 (15121719)	11.16372 (15121719)	11.07722 (15121719)	10.98417 (15121719)	10.93243 (15121719)
3859821.1	11.14763 (15121719)	11.06853 (15121719)	11.02402 (15121719)	10.95766 (15121719)	10.84183 (15121719)
3859801.7	11.11996 (15121719)	11.04887 (15121719)	10.97010 (15121719)	10.90578 (15121719)	10.81759 (15121719)
3859782.3	11.07114 (15121719)	11.02127 (15121719)	10.93166 (15121719)	10.83263 (15121719)	10.76709 (15121719)
3859762.9	10.92980 (15121719)	10.95755 (15121719)	10.90586 (15121719)	10.75972 (15121719)	10.59383 (15121719)
3859743.4	10.82097 (15121719)	10.86211 (15121719)	10.81051 (15121719)	10.68433 (15121719)	10.50346 (15121719)
3859724.0	10.71305 (15121719)	10.75254 (15121719)	10.69976 (15121719)	10.59026 (15121719)	10.43155 (15121719)
3859704.6	10.63497 (15121719)	10.65726 (15121719)	10.61865 (15121719)	10.49515 (15121719)	10.35812 (15121719)
3859685.2	10.54151 (15121719)	10.54621 (15121719)	10.50690 (15121719)	10.39852 (15121719)	10.28035 (15121719)
3859665.8	10.40400 (15121719)	10.42190 (15121719)	10.39282 (15121719)	10.29996 (15121719)	10.19905 (15121719)
3859646.4	10.27992 (15121719)	10.30910 (15121719)	10.27868 (15121719)	10.18404 (15121719)	10.09790 (15121719)
3859626.9	10.15508 (15121719)	10.19619 (15121719)	10.16153 (15121719)	10.09586 (15121719)	10.03996 (15121719)
3859607.5	10.07338 (15121719)	10.08022 (15121719)	10.07193 (15121719)	10.03158 (15121719)	9.98984 (15121719)
3859588.1	9.94610 (15121719)	9.92298 (15121719)	9.89716 (15121719)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489526.76	489546.06	489565.36	489584.66	489603.96
3859957.1	9.75363 (15121719)	9.69772 (15121719)	9.53062 (15121719)	9.24721 (15121719)	8.67758 (15121719)
3859937.6	10.57708 (15121719)	10.52716 (15121719)	10.40242 (15121719)	10.15829 (15121719)	9.81813 (15121719)
3859918.2	10.75190 (15121719)	10.67599 (15121719)	10.40051 (15121719)	10.24226 (15121719)	10.07605 (15121719)
3859898.8	10.79061 (15121719)	10.65751 (15121719)	10.58311 (15121719)	10.53922 (15121719)	10.22957 (15121719)
3859879.4	10.84733 (15121719)	10.66668 (15121719)	10.62658 (15121719)	10.64575 (15121719)	10.47976 (15121719)
3859860.0	10.91756 (15121719)	10.77942 (15121719)	10.77033 (15121719)	10.76082 (15121719)	10.55147 (15121719)
3859840.5	10.87854 (15121719)	10.82000 (15121719)	10.78659 (15121719)	10.77718 (15121719)	10.60803 (15121719)
3859821.1	10.78873 (15121719)	10.75466 (15121719)	10.72160 (15121719)	10.68709 (15121719)	10.67565 (15121719)

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 3859801.7 |     10.74406 (15121719)     10.69041 (15121719)     10.68042 (15121719)
    10.66922 (15121719)     10.63084 (15121719)
 3859782.3 |     10.69618 (15121719)     10.62211 (15121719)     10.61083 (15121719)
    10.61995 (15121719)     10.56111 (15121719)
 3859762.9 |     10.62588 (15121719)     10.57260 (15121719)     10.53869 (15121719)
    10.52381 (15121719)     10.46383 (15121719)
 3859743.4 |     10.57141 (15121719)     10.49874 (15121719)     10.46351 (15121719)
    10.42575 (15121719)     10.38527 (15121719)
 3859724.0 |     10.49430 (15121719)     10.42303 (15121719)     10.36537 (15121719)
    10.34514 (15121719)     10.32227 (15121719)
 3859704.6 |     10.41405 (15121719)     10.34258 (15121719)     10.28374 (15121719)
    10.26043 (15121719)     10.23435 (15121719)
 3859685.2 |     10.33025 (15121719)     10.25828 (15121719)     10.19944 (15121719)
    10.17298 (15121719)     10.12455 (15121719)
 3859665.8 |     10.24399 (15121719)     10.15339 (15121719)     10.10969 (15121719)
    10.06326 (15121719)     10.03142 (18010220)
 3859646.4 |     10.15238 (15121719)     10.06193 (15121719)     10.00001 (15121719)
     9.98082 (18010220)      9.96263 (18010220)
 3859626.9 |     10.04268 (15121719)      9.99286 (18010220)      9.96198 (18010220)
     9.94708 (18010220)      9.91488 (18010220)
 3859607.5 |      9.98299 (18010220)      9.95499 (18010220)      9.94256 (18010220)
     9.92905 (18010220)      9.86704 (18010220)
 3859588.1 |      9.85317 (18010220)      9.84045 (18010220)      9.85915 (18010220)
     9.84778 (18010220)      9.80392 (18010220)
 3859568.7 |      9.71020 (18010220)      9.71278 (18010220)      9.74832 (18010220)
     9.76909 (18010220)      9.74306 (18010220)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 717
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                 INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                 L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                 L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                 L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
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  Y-COORD  |                                                X-COORD (METERS)
  (METERS) |       489623.26
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |      8.79392 (16020308)
 3859937.6 |      8.98644 (15121719)
 3859918.2 |      9.49767 (15121719)
 3859898.8 |     10.05861 (15121719)
 3859879.4 |     10.33714 (15121719)
 3859860.0 |     10.48006 (15121719)
 3859840.5 |     10.59588 (15121719)
 3859821.1 |     10.63803 (15121719)
 3859801.7 |     10.64217 (15121719)
 3859782.3 |     10.61053 (15121719)
 3859762.9 |     10.59142 (15121719)
 3859743.4 |     10.52184 (15121719)
 3859724.0 |     10.42812 (15121719)
 3859704.6 |     10.31324 (15121719)
 3859685.2 |     10.19613 (18010220)
 3859665.8 |     10.10669 (18010220)
 3859646.4 |     10.01986 (18010220)
 3859626.9 |      9.93569 (18010220)
 3859607.5 |      9.85423 (18010220)
 3859588.1 |      9.77423 (18010220)
 3859568.7 |      9.68086 (18010220)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                    INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                  L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                    *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

Y-COORD (METERS)	X-COORD (METERS)				
	489260.34	489284.99	489309.64	489334.29	489358.94
3859173.4	8.33781 (18010220)	8.27792 (18010220)	8.35881 (18010220)	8.39851 (18010220)	8.38701 (18010220)
3859151.9	8.28349 (18010220)	8.30752 (18010220)	8.33331 (18010220)	8.34794 (18010220)	8.33798 (18010220)
3859130.3	8.25684 (18010220)	8.29437 (18010220)	8.29613 (18010220)	8.29928 (18010220)	8.28955 (18010220)
3859108.7	8.23116 (18010220)	8.25714 (18010220)	8.24802 (18010220)	8.23845 (18010220)	8.23120 (18010220)
3859087.1	8.19447 (18010220)	8.19741 (18010220)	8.20169 (18010220)	8.19351 (18010220)	8.18796 (18010220)
3859065.6	8.14744 (18010220)	8.15157 (18010220)	8.15569 (18010220)	8.13791 (18010220)	8.14660 (18010220)
3859044.0	8.08906 (18010220)	8.09411 (18010220)	8.10067 (18010220)	8.09679 (18010220)	8.09307 (18010220)
3859022.4	8.04538 (18010220)	8.05165 (18010220)	8.05954 (18010220)	8.05574 (18010220)	8.05566 (18010220)
3859000.9	7.98001 (18010220)	7.99921 (18010220)	8.02009 (18010220)	8.01804 (18010220)	8.02019 (18010220)
3858979.3	7.92675 (18010220)	7.94708 (18010220)	7.98047 (18010220)	7.98213 (18010220)	7.98664 (18010220)
3858957.7	7.89977 (18010220)	7.92107 (18010220)	7.93328 (18010220)	7.95875 (18010220)	7.96563 (18010220)
3858936.1	7.86271 (18010220)	7.88518 (18010220)	7.89906 (18010220)	7.91564 (18010220)	7.92164 (18010220)
3858914.6	7.82721 (18010220)	7.84045 (18010220)	7.85317 (18010220)	7.87156 (18010220)	7.89310 (18010220)
3858893.0	7.79327 (18010220)	7.79485 (18010220)	7.80224 (18010220)	7.83292 (18010220)	7.87510 (18010220)
3858871.4	7.77068 (18010220)	7.77407 (18010220)	7.77389 (18010220)	7.80580 (18010220)	7.82454 (18010220)
3858849.9	7.74852 (18010220)	7.74442 (18010220)	7.75600 (18010220)	7.77333 (18010220)	7.79912 (18010220)
3858828.3	7.70568 (18010220)	7.71598 (18010220)	7.72314 (18010220)	7.75559 (18010220)	7.77388 (18010220)
3858806.7	7.67642 (18010220)	7.68849 (18010220)	7.69675 (18010220)	7.72930 (18010220)	7.74829 (18010220)
3858785.2	7.64001 (18010220)	7.65505 (18010220)	7.67810 (18010220)	7.70272 (18010220)	7.72827 (18010220)
3858763.6	7.59849 (18010220)	7.62058 (18010220)	7.64424 (18010220)	7.66810 (18010220)	7.68952 (18010220)
3858742.0	7.54520 (18010220)	7.56857 (18010220)	7.59102 (18010220)	7.61562 (18010220)	7.63962 (18010220)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489383.59	489408.24	489432.89	489457.54	489482.19
3859173.4	8.40381 (18010220)	8.40886 (18010220)	8.40043 (18010220)	8.38096 (18010220)	8.36178 (18010220)
3859151.9	8.35604 (18010220)	8.36116 (18010220)	8.35603 (18010220)	8.33759 (18010220)	8.33723 (18010220)
3859130.3	8.29558 (18010220)	8.31675 (18010220)	8.30035 (18010220)	8.29800 (18010220)	8.30060 (18010220)
3859108.7	8.25177 (18010220)	8.27432 (18010220)	8.24560 (18010220)	8.24753 (18010220)	8.26652 (18010220)
3859087.1	8.22246 (18010220)	8.22136 (18010220)	8.20827 (18010220)	8.19729 (18010220)	8.23179 (18010220)
3859065.6	8.16992 (18010220)	8.15660 (18010220)	8.17319 (18010220)	8.17805 (18010220)	8.21445 (18010220)
3859044.0	8.11796 (18010220)	8.10912 (18010220)	8.14037 (18010220)	8.15993 (18010220)	8.18680 (18010220)
3859022.4	8.08216 (18010220)	8.09983 (18010220)	8.12108 (18010220)	8.13166 (18010220)	8.15029 (18010220)
3859000.9	8.03700 (18010220)	8.05395 (18010220)	8.08846 (18010220)	8.10530 (18010220)	8.13708 (18010220)
3858979.3	7.99132 (18010220)	8.02463 (18010220)	8.06091 (18010220)		

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      489580.79              489605.44
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489630.09	489654.74	489679.39	489704.04	489728.69
3859173.4	8.54345 (18010220)	8.60104 (18010220)	8.67444 (18010220)	8.73937 (18010220)	8.80638 (18010220)
3859151.9	8.53533 (18010220)	8.59437 (18010220)	8.65691 (18010220)	8.71195 (18010220)	8.77794 (18010220)
3859130.3	8.51624 (18010220)	8.57651 (18010220)	8.62934 (18010220)	8.68422 (18010220)	8.74764 (18010220)
3859108.7	8.49807 (18010220)	8.53055 (18010220)	8.59272 (18010220)	8.65389 (18010220)	8.69577 (18010220)
3859087.1	8.46200 (18010220)	8.51216 (18010220)	8.57170 (18010220)	8.62048 (18010220)	8.66559 (18010220)
3859065.6	8.43354 (18010220)	8.48270 (18010220)	8.53899 (18010220)	8.59071 (18010220)	8.65731 (15102517)
3859044.0	8.41315 (18010220)	8.45839 (18010220)	8.49750 (18010220)	8.55596 (15102517)	8.65574 (15102517)
3859022.4	8.37650 (18010220)	8.41884 (18010220)	8.45400 (18010220)	8.55882 (15102517)	8.64910 (15102517)
3859000.9	8.34958 (18010220)	8.38376 (18010220)	8.44406 (15102517)	8.53479 (15102517)	8.61444 (15102517)
3858979.3	8.31505 (18010220)	8.37366 (15102517)	8.44316 (15102517)	8.52369 (15102517)	8.59115 (15102517)
3858957.7	8.30463 (15102517)	8.39428 (15102517)	8.45468 (15102517)	8.54307 (15102517)	8.59686 (15102517)
3858936.1	8.32579 (15102517)	8.40640 (15102517)	8.43665 (15102517)		

```
    8.51218 (15102517)      8.55291 (15102517)
 3858914.6 |      8.33901 (15102517)      8.38997 (15102517)      8.42853 (15102517)
    8.47179 (15102517)      8.49989 (15102517)
 3858893.0 |      8.34325 (15102517)      8.38327 (15102517)      8.40988 (15102517)
    8.44023 (15102517)      8.43873 (15102517)
 3858871.4 |      8.31979 (15102517)      8.34847 (15102517)      8.38098 (15102517)
    8.39900 (15102517)      8.37076 (15102517)
 3858849.9 |      8.30511 (15102517)      8.30489 (15102517)      8.32571 (15102517)
    8.33308 (15102517)      8.31320 (15102517)
 3858828.3 |      8.28048 (15102517)      8.26975 (15102517)      8.27927 (15102517)
    8.27677 (15102517)      8.25003 (15102517)
 3858806.7 |      8.21415 (15102517)      8.21004 (15102517)      8.22529 (15102517)
    8.21451 (15102517)      8.18279 (15102517)
 3858785.2 |      8.17273 (15102517)      8.12890 (15102517)      8.15100 (15102517)
    8.12042 (15102517)      8.09974 (15102517)
 3858763.6 |      8.12346 (15102517)      8.07296 (15102517)      8.07299 (15102517)
    8.03959 (15102517)      8.00952 (15102517)
 3858742.0 |      8.08101 (15102517)      8.03998 (15102517)      8.01899 (15102517)
    7.99516 (15102517)      7.92975 (15102517)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 722
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                 INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                 L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                 L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                 L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                X-COORD (METERS)
  (METERS) |       489753.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3859173.4 |      8.86471 (18010220)
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 3859151.9 |      8.83391 (18010220)
 3859130.3 |      8.78935 (18010220)
 3859108.7 |      8.74222 (18010220)
 3859087.1 |      8.75678 (15102517)
 3859065.6 |      8.77988 (15102517)
 3859044.0 |      8.76696 (15102517)
 3859022.4 |      8.74779 (15102517)
 3859000.9 |      8.72032 (15102517)
 3858979.3 |      8.68257 (15102517)
 3858957.7 |      8.61608 (15102517)
 3858936.1 |      8.55994 (15102517)
 3858914.6 |      8.49581 (15102517)
 3858893.0 |      8.44186 (15102517)
 3858871.4 |      8.36537 (15102517)
 3858849.9 |      8.30035 (15102517)
 3858828.3 |      8.21713 (15102517)
 3858806.7 |      8.15991 (15102517)
 3858785.2 |      8.08829 (15102517)
 3858763.6 |      7.99778 (15102517)
 3858742.0 |      7.91988 (15102517)
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                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                  INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                  L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                   *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       488584.66              488614.48              488644.30
      488674.12              488703.94
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
```

3858905.0 | 8.18667 (15102517) 8.16936 (15102517) 8.12804 (15102517)
    8.10343 (15102517) 8.06334 (15102517)
3858880.0 | 8.12491 (15102517) 8.09684 (15102517) 8.06371 (15102517)
    8.05024 (15102517) 7.97130 (15102517)
3858855.1 | 8.05407 (15102517) 8.04474 (15102517) 7.98909 (15102517)
    7.94928 (15102517) 7.90586 (15102517)
3858830.2 | 7.99337 (15102517) 7.98283 (15102517) 7.88994 (15102517)
    7.78000 (15102517) 7.86719 (15102517)
3858805.3 | 7.85784 (15102517) 7.74344 (15102517) 7.83931 (15102517)
    7.80951 (15102517) 7.82888 (15102517)
3858780.3 | 7.85226 (15102517) 7.83947 (15102517) 7.80112 (15102517)
    7.75948 (15102517) 7.72732 (15102517)
3858755.4 | 7.81339 (15102517) 7.80081 (15102517) 7.75169 (15102517)
    7.71024 (15102517) 7.67848 (15102517)
3858730.5 | 7.75459 (15102517) 7.73005 (15102517) 7.69133 (15102517)
    7.67422 (15102517) 7.64369 (15102517)
3858705.5 | 7.69630 (15102517) 7.68206 (15102517) 7.63183 (15102517)
    7.61472 (15102517) 7.59726 (15102517)
3858680.6 | 7.62756 (15102517) 7.62398 (15102517) 7.53634 (15102517)
    7.51822 (15102517) 7.50017 (15102517)
3858655.7 | 7.55911 (15102517) 7.56639 (15102517) 7.52801 (15102517)
    7.48680 (15102517) 7.45749 (15102517)
3858630.8 | 7.48019 (15102517) 7.48756 (15102517) 7.46018 (15102517)
    7.43171 (15102517) 7.40369 (15102517)
3858605.8 | 7.40085 (15102517) 7.40859 (15102517) 7.39318 (15102517)
    7.37857 (15102517) 7.35217 (15102517)
3858580.9 | 7.33436 (15102517) 7.34286 (15102517) 7.32817 (15102517)
    7.32761 (15102517) 7.28873 (15102517)
3858556.0 | 7.31707 (15102517) 7.30308 (15102517) 7.27765 (15102517)
    7.26511 (15102517) 7.24228 (15102517)
3858531.0 | 7.22892 (15102517) 7.22761 (15102517) 7.22845 (15102517)
    7.21898 (15102517) 7.19865 (15102517)
3858506.1 | 7.17927 (15102517) 7.17967 (15102517) 7.15679 (15102517)
    7.14842 (15102517) 7.12980 (15102517)
3858481.2 | 7.11924 (15102517) 7.12141 (15102517) 7.08640 (15102517)
    7.09421 (15102517) 7.07795 (18010220)
3858456.2 | 7.06066 (15102517) 7.05183 (15102517) 7.04507 (15102517)
    7.05568 (15102517) 7.04249 (15102517)
3858431.3 | 7.00422 (15102517) 6.99743 (15102517) 7.00716 (15102517)
    7.02074 (15102517) 7.00981 (15102517)
3858406.4 | 6.97654 (15102517) 6.95951 (15102517) 6.99874 (15102517)
    7.00224 (15102517) 6.98080 (15102517)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 488733.76	488763.58	488793.40	488823.22	488853.04
3858905.0	8.01859 (15102517)	7.92542 (15102517)	7.94627 (15102517)	7.90653 (15102517)	7.84761 (15102517)
3858880.0	7.89566 (15102517)	7.88735 (15102517)	7.86350 (15102517)	7.88439 (15102517)	7.81332 (15102517)
3858855.1	7.81490 (15102517)	7.90572 (15102517)	7.82661 (15102517)	7.80292 (15102517)	7.76339 (15102517)
3858830.2	7.84757 (15102517)	7.82678 (15102517)	7.79044 (15102517)	7.75320 (15102517)	7.71522 (15102517)
3858805.3	7.78345 (15102517)	7.74828 (15102517)	7.71211 (15102517)	7.69020 (15102517)	7.65286 (18010220)
3858780.3	7.70643 (15102517)	7.67133 (15102517)	7.63524 (15102517)	7.61315 (15102517)	7.58535 (18010220)
3858755.4	7.63085 (15102517)	7.61008 (15102517)	7.57408 (15102517)	7.54790 (18010220)	7.53934 (18010220)
3858730.5	7.59795 (15102517)	7.56487 (15102517)	7.53080 (15102517)	7.50274 (18010220)	7.50776 (18010220)
3858705.5	7.56630 (15102517)	7.52164 (15102517)	7.47514 (15102517)	7.46504 (18010220)	7.47085 (18010220)
3858680.6	7.49636 (15102517)	7.48062 (15102517)	7.43681 (15102517)	7.42851 (18010220)	7.41508 (18010220)
3858655.7	7.42833 (15102517)	7.41315 (15102517)	7.37951 (18010220)	7.38590 (18010220)	7.38048 (18010220)
3858630.8	7.37532 (15102517)	7.36332 (15102517)	7.33753 (18010220)	7.34555 (18010220)	7.34048 (18010220)
3858605.8	7.32583 (15102517)	7.31638 (15102517)	7.29216 (18010220)	7.29883 (18010220)	7.29357 (18010220)

 3858580.9 | 7.26519 (15102517)   7.25755 (15102517)   7.25181 (18010220)
     7.24679 (18010220)   7.24888 (18010220)
 3858556.0 | 7.20665 (15102517)   7.19994 (18010220)   7.20067 (18010220)
     7.20868 (18010220)   7.21689 (18010220)
 3858531.0 | 7.17993 (15102517)   7.15521 (18010220)   7.16868 (18010220)
     7.17668 (18010220)   7.18475 (18010220)
 3858506.1 | 7.12252 (18010220)   7.12355 (18010220)   7.12592 (18010220)
     7.13382 (18010220)   7.14178 (18010220)
 3858481.2 | 7.07905 (18010220)   7.08142 (18010220)   7.08373 (18010220)
     7.09152 (18010220)   7.08640 (18010220)
 3858456.2 | 7.03755 (18010220)   7.03982 (18010220)   7.04004 (18010220)
     7.04749 (18010220)   7.03706 (18010220)
 3858431.3 | 7.00663 (18010220)   7.00385 (18010220)   6.99335 (18010220)
     7.00597 (18010220)   7.01332 (18010220)
 3858406.4 | 6.96589 (18010220)   6.96583 (18010220)   6.95775 (18010220)
     6.96258 (18010220)   6.99519 (15102517)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2   ***
                                  INCLUDING SOURCE(S):   L0000539   , L0000540 , L0000541   , L0000542   , L0000543   ,
                 L0000544   , L0000545   , L0000546   , L0000547   , L0000548 , L0000549   , L0000550   , L0000551   ,
                 L0000552   , L0000553   , L0000554   , L0000555   , L0000556 , L0000557   , L0000558   , L0000559   ,
                 L0000560   , L0000561   , L0000562   , L0000563   , L0000564 , L0000565   , L0000566   , . . .   ,

                                  *** NETWORK ID: UCART3   ; NETWORK TYPE: GRIDCART ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

  Y-COORD | X-COORD (METERS)
  (METERS) | 488882.86   488912.68   488942.50
      488972.32   489002.14
 -

 3858905.0 | 7.87101 (15102517)   7.84943 (18010220)   7.86744 (18010220)
     7.83882 (18010220)   7.82504 (18010220)
 3858880.0 | 7.79440 (18010220)   7.78994 (18010220)   7.80729 (18010220)

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     7.79582 (18010220)      7.77540 (18010220)
 3858855.1 |      7.74278 (18010220)      7.73109 (18010220)      7.75036 (18010220)
     7.73928 (18010220)      7.71806 (18010220)
 3858830.2 |      7.69285 (18010220)      7.67467 (18010220)      7.68653 (18010220)
     7.65777 (18010220)      7.68011 (18010220)
 3858805.3 |      7.65122 (18010220)      7.64167 (18010220)      7.63137 (18010220)
     7.56780 (18010220)      7.62703 (18010220)
 3858780.3 |      7.57519 (18010220)      7.56422 (18010220)      7.56970 (18010220)
     7.55137 (18010220)      7.55710 (18010220)
 3858755.4 |      7.52276 (18010220)      7.51976 (18010220)      7.52609 (18010220)
     7.52535 (18010220)      7.51532 (18010220)
 3858730.5 |      7.49317 (18010220)      7.49159 (18010220)      7.49145 (18010220)
     7.49178 (18010220)      7.48299 (18010220)
 3858705.5 |      7.46420 (18010220)      7.45681 (18010220)      7.45023 (18010220)
     7.45129 (18010220)      7.45894 (18010220)
 3858680.6 |      7.40106 (18010220)      7.40882 (18010220)      7.41003 (18010220)
     7.41000 (18010220)      7.41226 (18010220)
 3858655.7 |      7.36757 (18010220)      7.36895 (18010220)      7.37073 (18010220)
     7.38722 (18010220)      7.38133 (18010220)
 3858630.8 |      7.32804 (18010220)      7.33661 (18010220)      7.33030 (18010220)
     7.34664 (18010220)      7.34361 (18010220)
 3858605.8 |      7.28929 (18010220)      7.30441 (18010220)      7.29882 (18010220)
     7.30852 (18010220)      7.30645 (18010220)
 3858580.9 |      7.25734 (18010220)      7.27210 (18010220)      7.26712 (18010220)
     7.26475 (18010220)      7.26719 (18010220)
 3858556.0 |      7.21948 (18010220)      7.22824 (18010220)      7.22931 (18010220)
     7.22771 (18010220)      7.22482 (18010220)
 3858531.0 |      7.18194 (18010220)      7.18271 (18010220)      7.18626 (18010220)
     7.18824 (18010220)      7.19368 (18010220)
 3858506.1 |      7.13689 (18010220)      7.14001 (18010220)      7.13612 (18010220)
     7.14105 (18010220)      7.15253 (15102517)
 3858481.2 |      7.08924 (18010220)      7.09550 (18010220)      7.09452 (18010220)
     7.10808 (15102517)      7.13169 (15102517)
 3858456.2 |      7.04002 (18010220)      7.05380 (18010220)      7.06464 (15102517)
     7.10184 (15102517)      7.13205 (15102517)
 3858431.3 |      7.02038 (15102517)      7.02217 (15102517)      7.05738 (15102517)
     7.08546 (15102517)      7.11961 (15102517)
 3858406.4 |      6.99583 (15102517)      6.99880 (15102517)      7.04004 (15102517)
     7.08652 (15102517)      7.11689 (15102517)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 726
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                   INCLUDING SOURCE(S):     L0000539    , L0000540
```

```
, L0000541    , L0000542    , L0000543    ,
                L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489031.96              489061.78              489091.60
      489121.42              489151.24
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3858905.0 |      7.82045 (18010220)      7.81526 (18010220)      7.81182 (18010220)
     7.80926 (18010220)      7.81635 (18010220)
 3858880.0 |      7.77083 (18010220)      7.76784 (18010220)      7.76562 (18010220)
     7.76290 (18010220)      7.75261 (18010220)
 3858855.1 |      7.73254 (18010220)      7.73098 (18010220)      7.72102 (18010220)
     7.70981 (18010220)      7.69923 (18010220)
 3858830.2 |      7.68711 (18010220)      7.68658 (18010220)      7.65786 (18010220)
     7.64729 (18010220)      7.66857 (18010220)
 3858805.3 |      7.63474 (18010220)      7.62468 (18010220)      7.63437 (18010220)
     7.62758 (18010220)      7.61092 (18010220)
 3858780.3 |      7.57382 (18010220)      7.57442 (18010220)      7.58503 (18010220)
     7.58652 (18010220)      7.58296 (18010220)
 3858755.4 |      7.52420 (18010220)      7.52574 (18010220)      7.52674 (18010220)
     7.53999 (18010220)      7.53543 (18010220)
 3858730.5 |      7.49264 (18010220)      7.47670 (18010220)      7.48073 (18010220)
     7.49531 (18010220)      7.49257 (18010220)
 3858705.5 |      7.46146 (18010220)      7.45534 (18010220)      7.46059 (18010220)
     7.44923 (18010220)      7.45158 (18010220)
 3858680.6 |      7.42310 (18010220)      7.43517 (18010220)      7.44620 (18010220)
     7.43016 (18010220)      7.44129 (18010220)
 3858655.7 |      7.38553 (18010220)      7.38177 (18010220)      7.40299 (18010220)
     7.41246 (18010220)      7.41443 (18010220)
 3858630.8 |      7.34623 (18010220)      7.34604 (18010220)      7.36104 (18010220)
     7.38325 (18010220)      7.39147 (18010220)
 3858605.8 |      7.30962 (18010220)      7.31681 (18010220)      7.31658 (18010220)
     7.33860 (18010220)      7.35067 (18010220)
 3858580.9 |      7.27330 (18010220)      7.28108 (18010220)      7.28167 (18010220)
     7.29287 (18010220)      7.29629 (15102517)
 3858556.0 |      7.23165 (18010220)      7.23651 (18010220)      7.24612 (18010220)
     7.26052 (15102517)      7.30798 (15102517)
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 3858905.0 | 7.79556 (18010220)
 3858880.0 | 7.75203 (18010220)
 3858855.1 | 7.70168 (18010220)
 3858830.2 | 7.65354 (18010220)
 3858805.3 | 7.60472 (18010220)
 3858780.3 | 7.56995 (18010220)
 3858755.4 | 7.54509 (18010220)
 3858730.5 | 7.50426 (18010220)

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2   ***
                                  INCLUDING SOURCE(S):   L0000539   , L0000540 , L0000541   , L0000542   , L0000543   ,
                L0000544   , L0000545   , L0000546   , L0000547   , L0000548 , L0000549   , L0000550   , L0000551   ,
                L0000552   , L0000553   , L0000554   , L0000555   , L0000556 , L0000557   , L0000558   , L0000559   ,
                L0000560   , L0000561   , L0000562   , L0000563   , L0000564 , L0000565   , L0000566   , . . .   ,

                                   *** NETWORK ID: UCART4   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489386.10   489460.62   489535.14
      489609.66   489684.18
 -

 3861675.8 | 30.20700 (16012108)   30.42206 (16012108)   30.16360 (16102717)
    30.08832 (16102717)   29.93034 (16102717)
 3861650.6 | 31.49135 (16012108)   31.73515 (16012108)   31.56904 (16012108)
    31.25268 (16102717)   31.06689 (16102717)
 3861625.5 | 32.73940 (16012108)   32.91619 (16012108)   32.97528 (16012108)
    32.75282 (16012108)   32.26942 (16012108)

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 3861600.3 |     33.94189 (16012108)     34.38304 (16012108)     34.31103 (16012108)
    34.28091 (16012108)     34.13211 (16012108)
 3861575.2 |     35.69073 (16012108)     35.61000 (16012108)     35.57006 (16012108)
    35.77328 (16012108)     35.78694 (16012108)
 3861550.1 |     37.09258 (16012108)     36.95435 (16012108)     37.05523 (16012108)
    37.21703 (16012108)     37.16160 (16012108)
 3861524.9 |     38.50720 (16012108)     38.47017 (16012108)     38.55362 (16012108)
    38.63197 (16012108)     38.57820 (16012108)
 3861499.8 |     40.05614 (16012108)     40.04589 (16012108)     40.09003 (16012108)
    40.22813 (16012108)     40.28271 (16012108)
 3861474.6 |     41.77034 (16012108)     41.74469 (16012108)     41.77316 (16012108)
    42.00433 (16012108)     42.18965 (16012108)
 3861449.5 |     43.58168 (16012108)     43.64382 (16012108)     43.64890 (16012108)
    43.83142 (16012108)     43.78699 (16012108)
 3861424.4 |     45.71404 (16012108)     45.84239 (16012108)     45.70759 (16012108)
    45.81643 (16012108)     45.96065 (16012108)
 3861399.2 |     48.11890 (16012108)     48.21345 (16012108)     47.97768 (16012108)
    48.27149 (16012108)     48.44281 (16012108)
 3861374.1 |     53.59314 (16020308)     52.54138 (16020308)     51.23520 (16020308)
    51.12089 (16012108)     51.18127 (16012108)
 3861348.9 |     60.63009 (16020308)     59.78045 (16020308)     58.71341 (16020308)
    57.67394 (16020308)     56.19742 (16020308)
 3861323.8 |     68.38939 (16020308)     67.94778 (16020308)     67.08719 (16020308)
    66.13265 (16020308)     64.94267 (16020308)
 3861298.7 |     77.25588 (16020308)     77.15518 (16020308)     76.57979 (16020308)
    75.69145 (16020308)     75.03165 (16020308)
 3861273.5 |     87.93952 (16020308)     87.87933 (16020308)     87.51109 (16020308)
    87.13274 (16020308)     86.28005 (16020308)
 3861248.4 |    101.72777 (16020308)    101.40862 (16020308)    100.72694 (16020308)
   100.92841 (16020308)     99.95879 (16020308)
 3861223.2 |    119.85583 (16020308)    119.79125 (16020308)    118.12194 (16020308)
   118.51895 (16020308)    117.51827 (16020308)
 3861198.1 |    145.50580 (16020308)    145.47314 (16020308)    143.81426 (16020308)
   142.90527 (16020308)    142.26811 (16020308)
 3861173.0 |    187.72913 (16020308)    187.00554 (16020308)    185.22872 (16020308)
   183.14531 (16020308)    181.46945 (16020308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 729
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                   INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
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                L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489758.70               489833.22               489907.74
      489982.26               490056.78
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |     29.82264 (16102717)     29.69860 (16102717)     30.00088 (19122021)
    31.13077 (16021019)     32.72650 (16021019)
 3861650.6 |     30.89029 (16102717)     30.78865 (16102717)     30.76093 (19122021)
    31.13369 (16122818)     32.89098 (16021019)
 3861625.5 |     32.09084 (16102717)     31.92653 (16102717)     31.93189 (16102717)
    31.52591 (19122021)     33.17995 (16021019)
 3861600.3 |     33.67657 (16012108)     33.22105 (16102717)     33.04607 (16102717)
    32.92502 (16102717)     33.67151 (16021019)
 3861575.2 |     35.43983 (16012108)     34.84637 (16012108)     34.10516 (16102717)
    34.24977 (16102717)     33.94972 (16102717)
 3861550.1 |     36.98288 (16012108)     36.67867 (16012108)     36.14231 (16012108)
    35.50119 (16102717)     35.23625 (16102717)
 3861524.9 |     38.54163 (16012108)     38.43877 (16012108)     38.19783 (16012108)
    37.69460 (16012108)     36.82890 (16012108)
 3861499.8 |     40.11646 (16012108)     40.21598 (16012108)     40.19324 (16012108)
    40.05330 (16012108)     39.46787 (16012108)
 3861474.6 |     41.82672 (16012108)     42.06164 (16012108)     42.17151 (16012108)
    42.35166 (16012108)     41.84298 (16012108)
 3861449.5 |     43.87100 (16012108)     44.05627 (16012108)     44.20806 (16012108)
    44.40116 (16012108)     44.12558 (16012108)
 3861424.4 |     45.91300 (16012108)     46.28557 (16012108)     46.74168 (16012108)
    46.54965 (16012108)     46.46723 (16012108)
 3861399.2 |     48.34096 (16012108)     48.83878 (16012108)     48.98049 (16012108)
    48.84820 (16012108)     48.86500 (16012108)
 3861374.1 |     51.06575 (16012108)     51.65398 (16012108)     51.35821 (16012108)
    51.42160 (16012108)     51.57909 (16012108)
 3861348.9 |     54.47936 (16020308)     54.64846 (16012108)     54.19908 (16012108)
    54.41376 (16012108)     54.65168 (16012108)
 3861323.8 |     63.51351 (16020308)     61.69500 (16020308)     59.67395 (16020308)
    57.99766 (16012108)     58.13446 (16012108)
 3861298.7 |     73.63238 (16020308)     71.96949 (16020308)     70.29931 (16020308)
    68.54525 (16020308)     66.01526 (16020308)
 3861273.5 |     85.30800 (16020308)     83.88002 (16020308)     82.57601 (16020308)
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
490131.30	490205.82	490280.34	490354.86	490429.38	
3861675.8	34.41894 (20112808)	35.08208 (20112808)	35.03735 (20112808)	35.37078 (19011604)	37.45322 (16012202)
3861650.6	34.64640 (20112808)	35.85202 (20112808)	36.42571 (20112808)	35.87044 (18010108)	37.57302 (16012202)
3861625.5	35.05683 (20112808)	36.74760 (20112808)	37.84017 (20112808)	37.13103 (18010108)	38.25480 (19011604)
3861600.3	35.56271 (20112808)	37.61556 (20112808)	38.94434 (20112808)	39.15393 (20112808)	39.45496 (19011604)
3861575.2	35.74839 (16021019)	38.08225 (20112808)	39.65545 (20112808)	40.15113 (20112808)	40.20250 (18010108)

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 3861550.1 |     36.33988 (16021019)     38.46674 (20112808)     40.49640 (20112808)
    41.20734 (20112808)     41.57259 (18010108)
 3861524.9 |     36.80076 (16102717)     38.69282 (20112808)     41.15876 (20112808)
    42.53408 (20112808)     42.72316 (20112808)
 3861499.8 |     38.45463 (16012108)     39.31171 (16021019)     41.87103 (20112808)
    43.63361 (20112808)     44.01937 (20112808)
 3861474.6 |     41.28785 (16012108)     40.34935 (16012108)     42.52236 (20112808)
    44.41447 (20112808)     45.50631 (20112808)
 3861449.5 |     44.06760 (16012108)     43.31211 (16012108)     42.95107 (20112808)
    45.01270 (20112808)     46.68313 (20112808)
 3861424.4 |     46.61614 (16012108)     46.27694 (16012108)     45.71351 (16012108)
    45.70554 (20112808)     47.90765 (20112808)
 3861399.2 |     49.20770 (16012108)     49.22601 (16012108)     48.84545 (16012108)
    48.00590 (16012108)     49.00893 (20112808)
 3861374.1 |     52.02234 (16012108)     52.17693 (16012108)     51.86676 (16012108)
    51.40966 (16012108)     50.84958 (16012108)
 3861348.9 |     55.03764 (16012108)     55.41893 (16012108)     55.03966 (16012108)
    54.82616 (16012108)     54.61824 (16012108)
 3861323.8 |     58.40953 (16012108)     58.57321 (16012108)     58.61644 (16012108)
    58.69381 (16012108)     58.65971 (16012108)
 3861298.7 |     63.49973 (16020308)     62.28102 (16012108)     62.66985 (16012108)
    62.73292 (16012108)     63.17433 (16012108)
 3861273.5 |     76.35516 (16020308)     73.61333 (16020308)     70.46614 (16020308)
    67.48998 (16012108)     68.66830 (16012108)
 3861248.4 |     91.12798 (16020308)     89.18110 (16020308)     86.44830 (16020308)
    83.39845 (16020308)     80.14447 (16020308)
 3861223.2 |    109.41159 (16020308)    108.00605 (16020308)    106.30651 (16020308)
   103.59888 (16020308)    101.16032 (16020308)
 3861198.1 |    133.60658 (16020308)    133.06938 (16020308)    132.99912 (16020308)
   129.31873 (16020308)    128.22882 (16020308)
 3861173.0 |    167.86201 (16020308)    170.45525 (16020308)    169.98716 (16020308)
   166.41935 (16020308)    165.90977 (16020308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 731
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                  INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                  L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,
```

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	490503.90	490578.42	490652.94	490727.46	490801.98
3861675.8	38.61832 (16012202)	39.70786 (16010123)	41.75540 (16120117)	44.63762 (16120117)	46.65078 (19120419)
3861650.6	39.32096 (16012202)	40.69438 (16010123)	42.60423 (16120421)	45.94436 (16120117)	47.60666 (19120419)
3861625.5	40.32917 (16012202)	41.70046 (16010123)	43.89896 (16120421)	46.48278 (16120117)	47.89414 (19120419)
3861600.3	41.78871 (16012202)	42.85637 (16012202)	44.40025 (16120421)	46.87401 (16120117)	48.28330 (16120117)
3861575.2	42.06279 (16012202)	44.00178 (16012202)	45.07375 (16010123)	47.16624 (16120117)	49.62494 (16120117)
3861550.1	42.27866 (19011604)	44.80252 (16012202)	45.77815 (16010123)	47.53121 (16120421)	50.77660 (16120117)
3861524.9	42.72311 (19011604)	45.46922 (16012202)	46.44389 (16012202)	48.62661 (16120421)	51.66337 (16120117)
3861499.8	44.10047 (18010108)	45.96135 (16012202)	47.84956 (16012202)	49.36447 (16010123)	52.52747 (16120117)
3861474.6	45.56084 (18010108)	46.28648 (16012202)	49.01371 (16012202)	50.37264 (16010123)	53.09859 (16120117)
3861449.5	47.12121 (18010108)	47.45892 (18010108)	50.06645 (16012202)	51.32604 (16010123)	53.41294 (16120421)
3861424.4	48.66455 (20112808)	49.32465 (18010108)	50.90429 (16012202)	52.63943 (16012202)	54.67875 (16120421)
3861399.2	50.28879 (20112808)	51.13142 (18010108)	51.52726 (16012202)	54.48922 (16012202)	55.86081 (16010123)
3861374.1	52.05348 (20112808)	53.13065 (18010108)	53.59183 (18010108)	56.10275 (16012202)	57.37322 (16010123)
3861348.9	54.09792 (16012108)	55.18140 (18010108)	56.19728 (18010108)	57.37332 (16012202)	59.18273 (16012202)
3861323.8	58.51228 (16012108)	57.95395 (16012108)	59.01857 (18010108)	59.15653 (18010108)	61.66017 (16012202)
3861298.7	63.29415 (16012108)	63.58781 (16012108)	62.50523 (16012108)	63.63953 (18010108)	65.06965 (16012202)
3861273.5	68.55991 (16012108)	68.89050 (16012108)	68.66617 (16012108)	68.86775 (16012108)	67.99728 (16012202)
3861248.4	75.72372 (16020308)	76.01425 (16012108)	75.32595 (16012108)	75.96691 (16012108)	76.19988 (16012108)
3861223.2	97.67755 (16020308)	93.46323 (16020308)	87.67699 (16020308)		

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2   ***
                                  INCLUDING SOURCE(S):   L0000539   , L0000540 , L0000541   , L0000542   , L0000543   ,
                 L0000544   , L0000545   , L0000546   , L0000547   , L0000548 , L0000549   , L0000550   , L0000551   ,
                 L0000552   , L0000553   , L0000554   , L0000555   , L0000556 , L0000557   , L0000558   , L0000559   ,
                 L0000560   , L0000561   , L0000562   , L0000563   , L0000564 , L0000565   , L0000566   , . . .   ,

                                  *** NETWORK ID: UCART4   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 490876.50
 -

 3861675.8 | 47.22028 (18020417)
 3861650.6 | 49.34462 (19120419)
 3861625.5 | 50.64532 (19120419)
 3861600.3 | 51.65384 (19120419)
 3861575.2 | 52.52503 (19120419)
 3861550.1 | 53.16477 (19120419)
 3861524.9 | 53.63155 (19120419)
 3861499.8 | 53.93277 (19120419)
 3861474.6 | 55.50498 (16120117)
 3861449.5 | 57.13765 (16120117)
 3861424.4 | 58.14536 (16120117)
 3861399.2 | 59.33971 (16120117)
 3861374.1 | 60.22527 (16120117)
 3861348.9 | 61.49432 (16120421)
 3861323.8 | 63.62802 (16120421)

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2   ***
                                   INCLUDING SOURCE(S):   L0000539   , L0000540 , L0000541   , L0000542   , L0000543   ,
                                   L0000544   , L0000545   , L0000546   , L0000547   , L0000548 , L0000549   , L0000550   , L0000551   ,
                                   L0000552   , L0000553   , L0000554   , L0000555   , L0000556 , L0000557   , L0000558   , L0000559   ,
                                   L0000560   , L0000561   , L0000562   , L0000563   , L0000564 , L0000565   , L0000566   , . . .   ,

                                    *** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

  Y-COORD | X-COORD (METERS)
  (METERS) | 491611.20   491641.99   491672.78
      491703.57   491734.36
 - - -

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 491765.15	491795.94	491826.73	491857.52	491888.31
3861693.5	20.96182 (18120921)	20.99718 (18120921)	21.04686 (18120921)	21.09204 (18120921)	21.05826 (18120921)
3861664.1	21.95294 (18120921)	21.94911 (18120921)	21.92147 (18120921)	21.87004 (18120921)	21.88021 (18120921)
3861634.6	22.87481 (18120921)	22.94642 (18120921)	22.88032 (18120921)	22.78943 (18120921)	22.79834 (18120708)
3861605.2	24.08568 (18120708)	24.20631 (18120708)	24.26987 (18120708)	24.32479 (18120708)	24.39644 (18120708)
3861575.7	25.72310 (18120708)	25.80726 (18120708)	25.83106 (18120708)	25.84864 (18120708)	25.94245 (18120708)
3861546.3	27.38064 (18120708)	27.46448 (18120708)	27.45489 (18120708)	27.50098 (18120708)	27.51400 (18120708)
3861516.8	29.00692 (18120708)	29.00455 (18120708)	29.03372 (18120708)	29.02724 (18120708)	29.11850 (18120708)
3861487.4	30.73979 (18120708)	30.71638 (18120708)	30.69233 (18120708)	30.66774 (18120708)	30.71767 (18120708)
3861457.9	32.60374 (18120708)	32.59094 (19010319)	32.63487 (19010319)	32.64208 (19010319)	32.64711 (19010319)
3861428.5	35.17793 (19010319)	35.15694 (19010319)	35.13546 (19010319)	35.07352 (19010319)	35.00880 (19010319)
3861399.0	37.97683 (19010319)	37.88028 (19010319)	37.78280 (19010319)	37.72649 (19010319)	37.65946 (19010319)
3861369.6	41.06428 (19010319)	40.92472 (19010319)	40.82689 (19010319)	40.70459 (19010319)	40.59408 (19010319)
3861340.1	44.53326 (19010319)	44.36733 (19010319)	44.26870 (19010319)	43.83904 (19010319)	43.96848 (16120801)
3861310.7	51.05601 (20120308)	51.20179 (20120308)	51.40283 (20120308)	51.45109 (20120308)	51.67042 (20120308)
3861281.2	60.73088 (20120308)	60.72849 (20120308)	60.67121 (20120308)	60.63005 (20120308)	60.42037 (20120308)
3861251.8	72.03009 (20120308)	71.54505 (20120308)	71.01968 (20120308)	70.22573 (20120308)	69.18078 (20120308)
3861222.3	83.78140 (20120308)	81.97894 (20120308)	80.13251 (20120308)	78.13433 (20120308)	75.77862 (20120308)
3861192.9	91.86900 (15121708)	88.78882 (15121708)	86.17236 (15121708)	83.55374 (15121708)	80.84050 (15121708)
3861163.4	97.85622 (15121708)	93.30441 (15121708)	88.75568 (15121708)	84.84398 (15121708)	81.07475 (15121708)
3861134.0	104.69395 (19010506)	100.23014 (19010506)	94.89275 (19010506)	90.81469 (19010506)	86.81178 (19010506)

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2   ***
                                 INCLUDING SOURCE(S):   L0000539   , L0000540 , L0000541   , L0000542   , L0000543   ,
                 L0000544   , L0000545   , L0000546   , L0000547   , L0000548 , L0000549   , L0000550   , L0000551   ,
                 L0000552   , L0000553   , L0000554   , L0000555   , L0000556 , L0000557   , L0000558   , L0000559   ,
                 L0000560   , L0000561   , L0000562   , L0000563   , L0000564 , L0000565   , L0000566   , . . .   ,

                                  *** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 491919.10   491949.89   491980.68
      492011.47   492042.26
 - - -

```
    32.72452 (19010319)     32.85606 (19010319)
 3861428.5 |     35.01763 (19010319)     35.01608 (19010319)     34.99830 (19010319)
    34.91930 (19010319)     34.99395 (19010319)
 3861399.0 |     37.61816 (19010319)     37.54628 (19010319)     37.38889 (19010319)
    37.17931 (19010319)     37.07454 (19010319)
 3861369.6 |     40.27072 (19010319)     40.13077 (19010319)     39.70101 (19010319)
    39.41106 (16120801)     39.50595 (16120801)
 3861340.1 |     43.77076 (20120308)     44.04459 (20120308)     44.19356 (20120308)
    44.31676 (20120308)     44.56130 (20120308)
 3861310.7 |     51.58922 (20120308)     51.59571 (20120308)     51.61606 (20120308)
    51.57849 (20120308)     51.60304 (20120308)
 3861281.2 |     60.12164 (20120308)     59.73059 (20120308)     59.24765 (20120308)
    58.90895 (20120308)     58.17450 (20120308)
 3861251.8 |     68.21939 (20120308)     67.13787 (20120308)     65.95481 (20120308)
    64.77855 (20120308)     63.18493 (20120308)
 3861222.3 |     73.74028 (20120308)     71.54183 (20120308)     69.23230 (20120308)
    66.94941 (20120308)     65.14881 (15121708)
 3861192.9 |     78.08104 (15121708)     75.52909 (15121708)     72.96518 (15121708)
    70.50817 (15121708)     67.87921 (15121708)
 3861163.4 |     77.45926 (15121708)     74.10995 (15121708)     71.00134 (15121708)
    68.20701 (15121708)     65.23361 (15121708)
 3861134.0 |     83.52550 (16010403)     80.25345 (16010403)     77.12010 (16010403)
    74.32271 (16010403)     71.72028 (16010403)
 3861104.5 |     84.81949 (19011605)     81.47560 (19011605)     78.37936 (19011605)
    75.60996 (19011605)     73.02404 (19011605)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 736
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                   INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                   L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                   L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                   L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                    *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

Y-COORD (METERS)	X-COORD (METERS)				
	492073.05	492103.84	492134.63	492165.42	492196.21
3861693.5	20.77196 (18120921)	20.74095 (18120921)	20.74535 (20120318)	20.76946 (20120318)	20.82082 (18120708)
3861664.1	21.78228 (18120708)	21.84603 (18120708)	21.94683 (18120708)	22.01920 (18120708)	22.08553 (18120708)
3861634.6	23.37376 (18120708)	23.22216 (18120708)	23.20191 (18120708)	23.15080 (18120708)	23.33915 (18120708)
3861605.2	24.72341 (18120708)	24.73176 (18120708)	24.63400 (18120708)	24.47546 (18120708)	24.54968 (18120708)
3861575.7	26.30164 (18120708)	26.10347 (18120708)	26.16672 (18120708)	25.92403 (18120708)	25.81072 (18120708)
3861546.3	27.50606 (18120708)	27.47048 (18120708)	27.49047 (18120708)	27.41502 (18120708)	27.36118 (18120708)
3861516.8	28.93330 (18120708)	28.93964 (18120708)	28.87089 (18120708)	28.88761 (18120708)	28.75554 (18120708)
3861487.4	30.55564 (19010319)	30.51980 (19010319)	30.49897 (19010319)	30.48890 (19010319)	30.42604 (19010319)
3861457.9	32.58019 (19010319)	32.50895 (19010319)	32.40839 (19010319)	32.27287 (19010319)	32.09733 (19010319)
3861428.5	34.69894 (19010319)	34.46770 (19010319)	34.18467 (19010319)	33.91800 (19010319)	33.55461 (19010319)
3861399.0	36.60786 (19010319)	36.14997 (19010319)	35.72788 (15013105)	35.68230 (16120801)	35.62458 (16120801)
3861369.6	39.26210 (16120801)	39.14390 (16120801)	39.06055 (16120801)	38.84032 (16120801)	38.70115 (20120308)
3861340.1	44.51854 (20120308)	44.53848 (20120308)	44.51772 (20120308)	44.45448 (20120308)	44.39665 (20120308)
3861310.7	51.25562 (20120308)	51.03098 (20120308)	50.62570 (20120308)	50.22360 (20120308)	49.70995 (20120308)
3861281.2	57.36770 (20120308)	56.64155 (20120308)	55.78329 (20120308)	54.80775 (20120308)	53.86137 (20120308)
3861251.8	61.73036 (20120308)	60.16824 (20120308)	58.67625 (20120308)	57.18101 (20120308)	55.61962 (20120308)
3861222.3	63.66033 (15121708)	62.10384 (15121708)	60.49620 (15121708)	58.99591 (15121708)	57.45850 (15121708)
3861192.9	65.82583 (15121708)	63.77027 (15121708)	61.72614 (15121708)	59.70201 (15121708)	57.70273 (15121708)
3861163.4	63.10381 (16010403)	61.43478 (16010403)	59.62995 (16010403)	57.91797 (16010403)	56.22564 (16010403)
3861134.0	69.38329 (16010403)	67.19237 (16010403)	64.97297 (16010403)	62.96746 (16010403)	61.15177 (16010403)
3861104.5	70.60351 (19011605)	68.24587 (19011605)	66.03410 (19011605)	63.95478 (19011605)	62.14327 (19011605)

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
                             INCLUDING SOURCE(S):   L0000539   , L0000540
, L0000541   , L0000542   , L0000543   ,
                L0000544   , L0000545   , L0000546   , L0000547   , L0000548
, L0000549   , L0000550   , L0000551   ,
                L0000552   , L0000553   , L0000554   , L0000555   , L0000556
, L0000557   , L0000558   , L0000559   ,
                L0000560   , L0000561   , L0000562   , L0000563   , L0000564
, L0000565   , L0000566   , . . .   ,

                              *** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

                                   ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 492227.00
 -
- -

 3861693.5 | 20.92824 (18120708)
 3861664.1 | 22.16832 (18120708)
 3861634.6 | 23.35254 (18120708)
 3861605.2 | 24.54009 (18120708)
 3861575.7 | 25.80637 (18120708)
 3861546.3 | 27.23506 (18120708)
 3861516.8 | 28.66548 (18120708)
 3861487.4 | 30.33583 (19010319)
 3861457.9 | 31.90956 (19010319)
 3861428.5 | 33.19694 (15013105)
 3861399.0 | 35.56411 (16120801)
 3861369.6 | 38.80982 (20120308)
 3861340.1 | 44.34141 (20120308)
 3861310.7 | 49.31832 (20120308)
 3861281.2 | 52.94623 (20120308)
 3861251.8 | 54.14648 (20120308)
 3861222.3 | 55.89365 (15121708)
 3861192.9 | 55.80071 (15121708)
 3861163.4 | 54.68242 (16010403)
 3861134.0 | 59.36645 (16010403)
 3861104.5 | 60.28763 (19011605)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488802.97	3861310.09	71.99030	(16020308)	488863.58	3861309.29	73.50621	(16020308)
488847.63	3861279.78	79.24387	(16020308)	488850.82	3861262.24	81.12037	(16020308)
488810.14	3861261.44	76.88921	(16020308)	488810.94	3861289.36	75.80013	(16020308)
488819.72	3861306.90	73.11537	(16020308)	488816.53	3861235.92	82.15598	(16010404)
488841.25	3861126.66	99.24138	(20121319)	488879.53	3861121.88	103.84038	(20121319)
488913.82	3861121.08	109.15610	(20121319)	488925.79	3861092.37	100.97971	(19123006)
488920.03	3861067.49	95.89089	(16010306)	488996.74	3861113.92	121.57064	(19121706)
488974.03	3861097.77	110.08955	(19123006)	488931.63	3860976.64	58.69798	(18010308)
488935.67	3861034.68	81.91645	(19020207)	488959.90	3861061.43	94.70781	(19121224)
489165.81	3861208.80	127.03464	(16020308)	489317.74	3861109.28	155.04109	(16010306)
489385.87	3861014.75	72.46415	(18010308)	489372.24	3861112.69	165.01582	(16010306)

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        489420.79   3861106.73      151.53390  (16010306)                489436.12
3861037.74       83.54961  (18010308)
        489488.07   3861036.89       83.02300  (18010308)                489473.59
3861110.99      162.66478  (16010306)
        489431.01   3861167.20      202.89441  (16010404)                489662.66
3860915.95       45.39287  (15022018)
        489644.78   3861076.07      111.61849  (18010308)                489659.26
3861099.06      140.70365  (16010406)
        489735.91   3861020.71       74.28017  (18010308)                489700.14
3861029.23       78.79416  (18010308)
        489708.65   3861062.44      100.04864  (18010308)                489779.34
3861099.06      141.89207  (16010406)
        489835.95   3859138.59        9.04886  (15102517)                489885.95
3859138.59        9.12164  (15102517)
        489935.95   3859138.59        9.19636  (15102517)                489985.95
3859138.59        9.01225  (15102517)
        490035.95   3859138.59        8.81136  (15102517)                490085.95
3859138.59        8.76935  (15102517)
        490135.95   3859138.59        8.92062  (15102517)                490185.95
3859138.59        8.95637  (15102517)
        490235.95   3859138.59        8.91054  (15102517)                490285.95
3859138.59        8.61937  (18010220)
        490335.95   3859138.59        8.50173  (19122022)                490385.95
3859138.59        8.39719  (19122022)
        490435.95   3859138.59        8.43283  (16122020)                490485.95
3859138.59        8.52105  (16122020)
        490535.95   3859138.59        8.71099  (20022603)                490585.95
3859138.59        8.86621  (20022603)
        490635.95   3859138.59        8.88141  (20022603)                490685.95
3859138.59        8.86896  (16122024)
        490735.95   3859138.59        9.10698  (16012120)                490785.95
3859138.59        9.40252  (16012120)
        490835.95   3859138.59        9.59829  (16012120)                490885.95
3859138.59        9.72880  (16122520)
        489835.95   3859188.59        9.04697  (18010220)                489885.95
3859188.59        9.13509  (15102517)
        489935.95   3859188.59        9.29617  (15102517)                489985.95
3859188.59        9.13318  (15102517)
        490035.95   3859188.59        9.13706  (15102517)                490085.95
3859188.59        9.28923  (15102517)
        490135.95   3859188.59        9.20679  (15102517)                490185.95
3859188.59        9.09387  (15102517)
        490235.95   3859188.59        8.82105  (15102517)                490285.95
3859188.59        8.67985  (18010220)
        490335.95   3859188.59        8.65860  (19122022)                490385.95
3859188.59        8.71872  (19122022)
        490435.95   3859188.59        8.60621  (16122020)                490485.95
3859188.59        8.71482  (20022603)
        490535.95   3859188.59        8.92190  (20022603)                490585.95
3859188.59        9.02378  (20022603)
```

490635.95 3859188.59 8.91678 (20022603) 490685.95
3859188.59 9.27856 (16012120)
490735.95 3859188.59 9.39452 (16012120) 490785.95
3859188.59 9.61244 (16122520)
490835.95 3859188.59 9.75804 (16122520) 490885.95
3859188.59 9.99929 (16122520)
489835.95 3859238.59 9.08941 (18010220) 489885.95
3859238.59 9.21332 (18010220)
*** AERMOD - VERSION 23132 *** *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo *** 07/17/24
*** AERMET - VERSION 19191 *** ***
*** 01:16:45

PAGE 739
*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540
, L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548
, L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556
, L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564
, L0000565 , L0000566 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)
Y-COORD (M) CONC (YYMMDDHH)
- - - -

3859238.59 9.14785 (20022603)
490635.95 3859238.59 9.10950 (16122024) 490685.95
3859238.59 9.30462 (16012120)
490735.95 3859238.59 9.54590 (16012120) 490785.95
3859238.59 9.75611 (16012120)
490835.95 3859238.59 9.85485 (16012120) 490885.95
3859238.59 10.12098 (16122520)
489835.95 3859288.59 9.15071 (18010220) 489885.95
3859288.59 9.27358 (18010220)
489935.95 3859288.59 9.34979 (18010220) 489985.95
3859288.59 9.27631 (18010220)
490035.95 3859288.59 9.43392 (18010220) 490085.95
3859288.59 9.64258 (15102517)
490135.95 3859288.59 9.75179 (15102517) 490185.95
3859288.59 9.65507 (15102517)
490235.95 3859288.59 9.34731 (15102517) 490285.95
3859288.59 9.11749 (18010220)
490335.95 3859288.59 8.89323 (18010220) 490385.95
3859288.59 8.90500 (20092318)
490435.95 3859288.59 8.94377 (16122020) 490485.95
3859288.59 9.04278 (16122020)
490535.95 3859288.59 9.13979 (16122020) 490585.95
3859288.59 9.29230 (20022603)
490635.95 3859288.59 9.46637 (20022603) 490685.95
3859288.59 9.55455 (20022603)
490735.95 3859288.59 9.74427 (16012120) 490785.95
3859288.59 9.94225 (16012120)
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489835.95 3859338.59 9.23318 (18010220) 489885.95
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3859338.59 10.06631 (15102517)
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3859338.59 9.78061 (20022603)
490735.95 3859338.59 9.86616 (16122024) 490785.95
3859338.59 10.13803 (16012120)
490835.95 3859338.59 10.31805 (16012120) 490885.95

3859338.59   10.53551 (16012120)
        489835.95   3859388.59   9.22475 (18010220)   489885.95
3859388.59   9.36441 (18010220)
        489935.95   3859388.59   9.60039 (18010220)   489985.95
3859388.59   9.73163 (18010220)
        490035.95   3859388.59   9.96678 (15102517)   490085.95
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3859388.59   10.41257 (15102517)
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3859388.59   9.96723 (15102517)
        490335.95   3859388.59   9.65201 (15102517)   490385.95
3859388.59   9.54301 (18010220)
        490435.95   3859388.59   9.51702 (18010220)   490485.95
3859388.59   9.47551 (18010220)
        490535.95   3859388.59   9.64271 (19122022)   490585.95
3859388.59   9.71225 (16122020)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2   ***
                                  INCLUDING SOURCE(S):   L0000539   , L0000540 , L0000541   , L0000542   , L0000543   ,
                  L0000544   , L0000545   , L0000546   , L0000547   , L0000548 , L0000549   , L0000550   , L0000551   ,
                  L0000552   , L0000553   , L0000554   , L0000555   , L0000556 , L0000557   , L0000558   , L0000559   ,
                  L0000560   , L0000561   , L0000562   , L0000563   , L0000564 , L0000565   , L0000566   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
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        490835.95   3859388.59       10.44542  (16122024)                490885.95
3859388.59       10.68323  (16012120)
        489835.95   3859438.59        9.48917  (18010220)                489885.95
3859438.59        9.54336  (18010220)
        489935.95   3859438.59        9.69664  (18010220)                489985.95
3859438.59        9.91461  (18010220)
        490035.95   3859438.59       10.15406  (15102517)                490085.95
3859438.59       10.46270  (15102517)
        490135.95   3859438.59       10.74422  (15102517)                490185.95
3859438.59       10.79386  (15102517)
        490235.95   3859438.59       10.65001  (15102517)                490285.95
3859438.59       10.40386  (15102517)
        490335.95   3859438.59       10.20532  (15102517)                490385.95
3859438.59       10.06802  (15102517)
        490435.95   3859438.59        9.97173  (15102517)                490485.95
3859438.59        9.84480  (18010220)
        490535.95   3859438.59        9.81962  (18010220)                490585.95
3859438.59        9.90754  (19122022)
        490635.95   3859438.59       10.07085  (16122020)                490685.95
3859438.59       10.17643  (16122020)
        490735.95   3859438.59       10.21969  (16122020)                490785.95
3859438.59       10.42842  (20022603)
        490835.95   3859438.59       10.66287  (20022603)                490885.95
3859438.59       10.89050  (20022603)
        490085.95   3859488.59       10.57595  (15102517)                490135.95
3859488.59       10.87517  (15102517)
        490185.95   3859488.59       11.12776  (15102517)                490235.95
3859488.59       11.16411  (15102517)
        490285.95   3859488.59       10.93413  (15102517)                490335.95
3859488.59       10.85304  (15102517)
        490385.95   3859488.59       10.58815  (15102517)                490435.95
3859488.59       10.50686  (15102517)
        490485.95   3859488.59       10.40215  (15102517)                490535.95
3859488.59       10.52633  (16020306)
        490585.95   3859488.59       10.25356  (16020306)                490635.95
3859488.59       10.16260  (19122022)
        490685.95   3859488.59       10.45606  (20092318)                490735.95
3859488.59       10.62674  (16122020)
        490785.95   3859488.59       10.69939  (16122020)                490835.95
3859488.59       10.79176  (20022603)
        490885.95   3859488.59       11.08386  (20022603)                490085.95
3859538.59       10.58366  (15102517)
        490135.95   3859538.59       10.95331  (15102517)                490185.95
3859538.59       11.31194  (15102517)
        490235.95   3859538.59       11.62763  (15102517)                490285.95
3859538.59       11.69129  (15102517)
        490335.95   3859538.59       11.48848  (15102517)                490385.95
3859538.59       11.27594  (15102517)
        490435.95   3859538.59       11.05710  (15102517)                490485.95
3859538.59       10.92422  (15102517)
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        490535.95   3859538.59       11.07084  (16020306)                490585.95
3859538.59       11.15437  (16020306)
        490635.95   3859538.59       10.93135  (16020306)                490685.95
3859538.59       10.58389  (18010220)
        490735.95   3859538.59       10.78802  (20092318)                490785.95
3859538.59       11.03936  (16122020)
        490835.95   3859538.59       11.22668  (16122020)                490885.95
3859538.59       11.35725  (16020308)
        490135.95   3859588.59       11.07986  (15102517)                490185.95
3859588.59       11.33388  (15102517)
        490235.95   3859588.59       11.78325  (15102517)                490285.95
3859588.59       12.08375  (15102517)
        490335.95   3859588.59       12.04401  (15102517)                490385.95
3859588.59       12.00227  (15102517)
        490435.95   3859588.59       11.79796  (15102517)                490485.95
3859588.59       11.59749  (15102517)
        490535.95   3859588.59       11.44125  (16020306)                490585.95
3859588.59       11.86617  (16020306)
        490635.95   3859588.59       11.70304  (16020306)                490685.95
3859588.59       11.37646  (16020306)
        490735.95   3859588.59       10.88359  (18010220)                490785.95
3859588.59       11.09939  (20092318)
        490835.95   3859588.59       11.44427  (16122020)                490885.95
3859588.59       11.87516  (16020308)
        490135.95   3859638.59       10.76977  (18010220)                490185.95
3859638.59       11.47844  (15102517)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 741
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                 INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                 L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                 L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                 L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490235.95	3859638.59	11.81233	(15102517)	490285.95	3859638.59	12.36027	(15102517)
490335.95	3859638.59	12.54703	(15102517)	490385.95	3859638.59	12.50910	(15102517)
490435.95	3859638.59	12.46163	(15102517)	490485.95	3859638.59	12.20758	(15102517)
490535.95	3859638.59	12.01394	(15102517)	490585.95	3859638.59	12.26988	(16020306)
490635.95	3859638.59	12.34085	(16020306)	490685.95	3859638.59	12.05700	(16020306)
490735.95	3859638.59	11.40073	(16020306)	490785.95	3859638.59	11.50354	(16020308)
490835.95	3859638.59	11.89263	(16020308)	490885.95	3859638.59	12.29789	(16020308)
490135.95	3859688.59	11.10990	(18010220)	490185.95	3859688.59	11.40745	(15102517)
490235.95	3859688.59	11.83907	(15102517)	490285.95	3859688.59	11.99644	(15102517)
490335.95	3859688.59	12.59810	(15102517)	490385.95	3859688.59	13.06683	(15102517)
490435.95	3859688.59	12.95637	(15102517)	490485.95	3859688.59	12.79819	(15102517)
490535.95	3859688.59	12.48360	(15102517)	490585.95	3859688.59	12.38569	(15102517)
490635.95	3859688.59	12.68264	(16020306)	490685.95	3859688.59	12.59789	(16020306)
490735.95	3859688.59	12.13730	(16020306)	490785.95	3859688.59	11.95095	(16020308)
490835.95	3859688.59	12.32190	(16020308)	490885.95	3859688.59	12.65845	(16020308)
490085.95	3859738.59	11.06246	(18010220)	490135.95	3859738.59	11.23597	(18010220)
490185.95	3859738.59	11.47593	(15102517)	490235.95	3859738.59	11.93167	(15102517)
490285.95	3859738.59	12.23645	(15102517)	490335.95	3859738.59	12.84496	(15102517)
490385.95	3859738.59	12.99041	(15102517)	490435.95	3859738.59	13.34590	(15102517)
490485.95	3859738.59	13.22234	(15102517)	490535.95	3859738.59	13.20641	(15102517)
490585.95	3859738.59	12.87965	(15102517)	490635.95	3859738.59	12.76495	(16020306)
490685.95	3859738.59	13.16980	(16020306)	490735.95	3859738.59	13.27353	(16020306)
490785.95	3859738.59	13.19111	(16020306)	490835.95			

3859738.59   12.94492 (16020306)
        490885.95   3859738.59   13.08150 (16020308)   490085.95
3859788.59   11.21560 (18010220)
        490135.95   3859788.59   11.41046 (18010220)   490185.95
3859788.59   11.57785 (18010220)
        490235.95   3859788.59   11.85160 (15102517)   490285.95
3859788.59   12.34881 (15102517)
        490335.95   3859788.59   12.86097 (15102517)   490385.95
3859788.59   13.43545 (15102517)
        490435.95   3859788.59   13.72864 (15102517)   490485.95
3859788.59   13.94617 (15102517)
        490535.95   3859788.59   13.66866 (15102517)   490585.95
3859788.59   13.68101 (15102517)
        490635.95   3859788.59   13.17242 (15102517)   490685.95
3859788.59   13.49537 (16020306)
        490735.95   3859788.59   14.45729 (16020306)   490785.95
3859788.59   14.63780 (16020306)
        490835.95   3859788.59   14.21516 (16020306)   490885.95
3859788.59   13.63423 (16020308)
        490085.95   3859838.59   11.46302 (18010220)   490135.95
3859838.59   11.62823 (18010220)
        490185.95   3859838.59   11.76499 (18010220)   490235.95
3859838.59   11.90578 (18010220)
        490285.95   3859838.59   12.23227 (15102517)   490335.95
3859838.59   12.81087 (15102517)
        490385.95   3859838.59   13.34320 (15102517)   490435.95
3859838.59   13.82088 (15102517)
        490485.95   3859838.59   14.24772 (15102517)   490535.95
3859838.59   14.37159 (15102517)
        490585.95   3859838.59   14.30166 (15102517)   490635.95
3859838.59   14.12331 (15102517)
        490685.95   3859838.59   14.42675 (16020306)   490735.95
3859838.59   15.06397 (16020306)
        490785.95   3859838.59   14.99926 (16020306)   490835.95
3859838.59   15.04979 (16020306)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2   ***
                                   INCLUDING SOURCE(S):   L0000539   , L0000540 , L0000541   , L0000542   , L0000543   ,
                L0000544   , L0000545   , L0000546   , L0000547   , L0000548 , L0000549   , L0000550   , L0000551   ,
                L0000552   , L0000553   , L0000554   , L0000555   , L0000556

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, L0000557    , L0000558    , L0000559    ,
                L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        490885.95   3859838.59       14.59766  (16020306)                490085.95
3859888.59       11.76664  (18010220)
        490135.95   3859888.59       11.91155  (18010220)                490185.95
3859888.59       11.98903  (18010220)
        490235.95   3859888.59       12.13688  (18010220)                490285.95
3859888.59       12.34828  (15102517)
        490335.95   3859888.59       12.75451  (15102517)                490385.95
3859888.59       13.23936  (15102517)
        490435.95   3859888.59       13.85381  (15102517)                490485.95
3859888.59       14.41689  (15102517)
        490535.95   3859888.59       14.78666  (15102517)                490585.95
3859888.59       14.84943  (15102517)
        490635.95   3859888.59       14.81653  (15102517)                490685.95
3859888.59       14.67680  (15102517)
        490735.95   3859888.59       15.40977  (16020306)                490785.95
3859888.59       16.60937  (16020306)
        490835.95   3859888.59       16.79236  (16020306)                490885.95
3859888.59       15.87314  (16020306)
        490135.95   3859938.59       12.17654  (18010220)                490185.95
3859938.59       12.29674  (18010220)
        490235.95   3859938.59       12.41572  (18010220)                490285.95
3859938.59       12.57900  (18010220)
        490335.95   3859938.59       12.84868  (15102517)                490385.95
3859938.59       13.23896  (15102517)
        490435.95   3859938.59       13.78797  (15102517)                490485.95
3859938.59       14.39355  (15102517)
        490535.95   3859938.59       14.95759  (15102517)                490585.95
3859938.59       15.29958  (15102517)
        490635.95   3859938.59       15.54624  (15102517)                490685.95
3859938.59       15.24035  (15102517)
        490735.95   3859938.59       15.03854  (15102517)                490785.95
3859938.59       16.27198  (16020306)
        490835.95   3859938.59       17.32675  (16020306)                490885.95
3859938.59       18.44781  (16020306)
        490135.95   3859988.59       12.46045  (18010220)                490185.95
3859988.59       12.55857  (18010220)
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        490235.95   3859988.59       12.60519  (18010220)                490285.95
3859988.59       12.78303  (18010220)
        490335.95   3859988.59       12.94703  (18010220)                490385.95
3859988.59       13.32214  (15102517)
        490435.95   3859988.59       13.78225  (15102517)                490485.95
3859988.59       14.29895  (15102517)
        490535.95   3859988.59       14.93343  (15102517)                490585.95
3859988.59       15.57700  (15102517)
        490635.95   3859988.59       16.02030  (15102517)                490685.95
3859988.59       15.92735  (15102517)
        490735.95   3859988.59       15.95575  (15102517)                490785.95
3859988.59       16.36977  (16020306)
        490835.95   3859988.59       17.94184  (16020306)                490885.95
3859988.59       19.19618  (16020306)
        490135.95   3860038.59       12.73842  (18010220)                490185.95
3860038.59       12.86996  (18010220)
        490235.95   3860038.59       12.99859  (18010220)                490285.95
3860038.59       13.17452  (18010220)
        490335.95   3860038.59       13.26573  (18010220)                490385.95
3860038.59       13.46689  (15102517)
        490435.95   3860038.59       13.87231  (15102517)                490485.95
3860038.59       14.31533  (15102517)
        490535.95   3860038.59       14.84456  (15102517)                490585.95
3860038.59       15.54910  (15102517)
        490635.95   3860038.59       16.20758  (15102517)                490685.95
3860038.59       16.65681  (15102517)
        490735.95   3860038.59       16.84970  (15102517)                490785.95
3860038.59       16.72883  (15102517)
        490835.95   3860038.59       18.03299  (16020306)                490885.95
3860038.59       19.60773  (16020306)
        490135.95   3860088.59       13.06779  (18010220)                490185.95
3860088.59       13.08192  (18010220)
        490235.95   3860088.59       13.26830  (18010220)                490285.95
3860088.59       13.44916  (18010220)
        490335.95   3860088.59       13.66267  (18010220)                490385.95
3860088.59       13.81751  (18010220)
        490435.95   3860088.59       14.07603  (15102517)                490485.95
3860088.59       14.51213  (15102517)
        490535.95   3860088.59       14.88735  (15102517)                490585.95
3860088.59       15.46923  (15102517)
        490635.95   3860088.59       16.20859  (15102517)                490685.95
3860088.59       16.90008  (15102517)
        490735.95   3860088.59       17.33496  (15102517)                490785.95
3860088.59       17.29337  (15102517)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2 ***
INCLUDING SOURCE(S): L0000539 , L0000540 , L0000541 , L0000542 , L0000543 ,
L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 ,
L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 ,
L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490835.95	3860088.59	18.01683	(16020306)	490885.95	3860088.59	19.63169	(16020306)
490135.95	3860138.59	13.60127	(15121719)	490185.95	3860138.59	13.53843	(18010220)
490235.95	3860138.59	13.71077	(18010220)	490285.95	3860138.59	13.85945	(18010220)
490335.95	3860138.59	14.02853	(18010220)	490385.95	3860138.59	14.21833	(18010220)
490435.95	3860138.59	14.43798	(15102517)	490485.95	3860138.59	14.78598	(15102517)
490535.95	3860138.59	15.04653	(15102517)	490585.95	3860138.59	15.48577	(15102517)
490635.95	3860138.59	16.14805	(15102517)	490685.95	3860138.59	16.77831	(15102517)
490735.95	3860138.59	17.41476	(15102517)	490785.95	3860138.59	17.92106	(15102517)
490835.95	3860138.59	17.81533	(15101919)	490885.95	3860138.59	18.97340	(16020306)
490935.95	3860138.59	18.55665	(16010219)	490985.95	3860138.59	19.84608	(15012608)
491035.95	3860138.59	20.89049	(15012608)	490135.95	3860188.59	14.21166	(15121719)
490185.95	3860188.59	14.12321	(15121719)	490235.95	3860188.59	14.14774	(18010220)
490285.95	3860188.59	14.30504	(18010220)	490335.95	3860188.59	14.48634	(18010220)
490385.95	3860188.59	14.68853	(18010220)	490435.95			

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3860188.59       14.85423  (18010220)
        490485.95   3860188.59       15.11120  (15102517)               490535.95
3860188.59       15.40447  (15102517)
        490585.95   3860188.59       15.64883  (15102517)               490635.95
3860188.59       16.25139  (15102517)
        490685.95   3860188.59       16.70027  (15102517)               490735.95
3860188.59       15.78183  (15102517)
        490785.95   3860188.59       16.61000  (15102517)               490835.95
3860188.59       17.44916  (15102517)
        490885.95   3860188.59       18.17191  (15102517)               490935.95
3860188.59       18.91006  (16010219)
        490985.95   3860188.59       20.29311  (16020420)               491035.95
3860188.59       21.82055  (15012608)
        491085.95   3860188.59       22.29992  (15012608)               491135.95
3860188.59       23.24022  (16012217)
        490135.95   3860238.59       14.84962  (15121719)               490185.95
3860238.59       14.80327  (15121719)
        490235.95   3860238.59       14.79532  (15121719)               490285.95
3860238.59       14.77719  (18010220)
        490335.95   3860238.59       14.93764  (18010220)               490385.95
3860238.59       15.13161  (18010220)
        490435.95   3860238.59       15.30285  (18010220)               490485.95
3860238.59       15.49666  (18010220)
        490535.95   3860238.59       15.79447  (15102517)               490585.95
3860238.59       16.16605  (15102517)
        490635.95   3860238.59       16.11360  (15102517)               490685.95
3860238.59       15.65248  (15102517)
        490735.95   3860238.59       15.98783  (16020308)               490785.95
3860238.59       16.77730  (15102517)
        490835.95   3860238.59       17.82164  (15102517)               490885.95
3860238.59       18.77041  (15102517)
        490935.95   3860238.59       19.44305  (15102517)               490985.95
3860238.59       20.37514  (16010219)
        491035.95   3860238.59       22.02195  (15012608)               491085.95
3860238.59       23.53690  (15012608)
        491135.95   3860238.59       23.27879  (15012608)               490135.95
3860288.59       15.47817  (15121719)
        490185.95   3860288.59       15.49873  (15121719)               490235.95
3860288.59       15.46085  (15121719)
        490285.95   3860288.59       15.51008  (15121719)               490335.95
3860288.59       15.49582  (15121719)
        490385.95   3860288.59       15.61303  (18010220)               490435.95
3860288.59       15.80646  (18010220)
        490485.95   3860288.59       16.00267  (18010220)               490535.95
3860288.59       16.26566  (18010220)
        490585.95   3860288.59       16.73737  (15102517)               490635.95
3860288.59       16.70058  (15102517)
        490685.95   3860288.59       16.49202  (15102517)               490735.95
3860288.59       16.48605  (15102517)
        490785.95   3860288.59       16.92842  (15102517)               490835.95
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK2   ***
                                   INCLUDING SOURCE(S):   L0000539   , L0000540
, L0000541   , L0000542   , L0000543   ,
                  L0000544   , L0000545   , L0000546   , L0000547   , L0000548
, L0000549   , L0000550   , L0000551   ,
                  L0000552   , L0000553   , L0000554   , L0000555   , L0000556
, L0000557   , L0000558   , L0000559   ,
                  L0000560   , L0000561   , L0000562   , L0000563   , L0000564
, L0000565   , L0000566   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        490985.95   3860288.59   20.84150 (15102517)   491035.95
3860288.59   22.46816 (16020420)
        491085.95   3860288.59   24.36957 (15012608)   490135.95
3860338.59   16.14539 (15121719)
        490185.95   3860338.59   16.18159 (15121719)   490235.95
3860338.59   16.14154 (15121719)
        490285.95   3860338.59   16.23947 (15121719)   490335.95
3860338.59   16.29569 (15121719)
        490385.95   3860338.59   16.25778 (15121719)   490435.95
3860338.59   16.37020 (18010220)
        490485.95   3860338.59   16.60404 (18010220)   490535.95
3860338.59   16.88065 (18010220)
        490585.95   3860338.59   17.25833 (15102517)   490635.95
3860338.59   17.49709 (15102517)
        490685.95   3860338.59   17.45754 (15102517)   490735.95
3860338.59   17.30400 (15102517)
        490785.95   3860338.59   17.32538 (16020308)   490835.95
3860338.59   18.01001 (15102517)

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        490885.95   3860338.59       19.26850  (15102517)                490935.95
3860338.59       20.79782  (15102517)
        490985.95   3860338.59       21.89940  (15102517)                491035.95
3860338.59       22.79840  (16010219)
        491085.95   3860338.59       24.79779  (16020420)                490135.95
3860388.59       16.88279  (15121719)
        490185.95   3860388.59       16.94589  (15121719)                490235.95
3860388.59       16.94954  (15121719)
        490285.95   3860388.59       17.01760  (15121719)                490335.95
3860388.59       17.09210  (15121719)
        490385.95   3860388.59       17.15768  (15121719)                490435.95
3860388.59       17.17126  (15121719)
        490485.95   3860388.59       17.19160  (18010220)                490535.95
3860388.59       17.54055  (18010220)
        490585.95   3860388.59       17.69807  (18010220)                490635.95
3860388.59       18.09764  (15102517)
        490685.95   3860388.59       18.28428  (15102517)                490735.95
3860388.59       18.31714  (15102517)
        490785.95   3860388.59       18.23449  (15102517)                490835.95
3860388.59       18.93519  (19120108)
        490135.95   3860438.59       17.73490  (15121719)                490185.95
3860438.59       17.73430  (15121719)
        490235.95   3860438.59       17.77495  (15121719)                490285.95
3860438.59       17.84324  (15121719)
        490335.95   3860438.59       17.97332  (15121719)                490385.95
3860438.59       18.05685  (15121719)
        490435.95   3860438.59       18.24661  (15121719)                490485.95
3860438.59       18.18915  (15121719)
        490535.95   3860438.59       18.22950  (18010220)                490585.95
3860438.59       18.45754  (18010220)
        490635.95   3860438.59       18.66711  (15102517)                490685.95
3860438.59       19.05029  (15102517)
        490735.95   3860438.59       19.53425  (19120108)                490785.95
3860438.59       20.46889  (19120108)
        490835.95   3860438.59       21.37662  (19120108)                490135.95
3860488.59       19.37366  (16122020)
        490185.95   3860488.59       19.00623  (16122020)                490235.95
3860488.59       18.70056  (15121719)
        490285.95   3860488.59       18.74784  (15121719)                490335.95
3860488.59       18.90348  (15121719)
        490385.95   3860488.59       19.07908  (15121719)                490435.95
3860488.59       19.01876  (15121719)
        490485.95   3860488.59       19.22290  (15121719)                490535.95
3860488.59       19.24519  (15121719)
        490585.95   3860488.59       19.32895  (18011120)                490635.95
3860488.59       20.25385  (19120108)
        490685.95   3860488.59       21.27419  (19120108)                490735.95
3860488.59       21.05706  (19120108)
        490785.95   3860488.59       21.28690  (19120108)                490135.95
3860538.59       20.90891  (16122020)
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        490185.95   3860538.59       20.59004  (16122020)                490235.95
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        490285.95   3860538.59       20.13453  (16122020)                490335.95
3860538.59       19.94612  (15121719)
        490385.95   3860538.59       19.97318  (15121719)                490435.95
3860538.59       20.05685  (15121719)
        490485.95   3860538.59       20.28532  (19120108)                490535.95
3860538.59       22.37869  (19120108)
        490585.95   3860538.59       22.43933  (19120108)                490635.95
3860538.59       23.26809  (19120108)
        490685.95   3860538.59       23.20813  (19120108)                490735.95
3860538.59       22.78573  (19120108)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 745
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                   INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                  L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        490785.95   3860538.59       23.16931  (19120108)                490135.95
3860588.59       22.07799  (16122020)
        490185.95   3860588.59       22.72966  (16122020)                490235.95
3860588.59       22.51395  (16122020)
        490285.95   3860588.59       22.22957  (16122020)                490335.95
3860588.59       21.88122  (16122020)
        490385.95   3860588.59       21.35094  (16122020)                490435.95
3860588.59       23.15987  (19120108)
        490485.95   3860588.59       24.27429  (19120108)                490535.95
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3860588.59 25.05363 (19120108)
490585.95 3860588.59 25.31441 (19120108) 490635.95
3860588.59 24.60265 (19120108)
490685.95 3860588.59 24.20934 (19120108) 490735.95
3860588.59 24.58939 (19120108)
490785.95 3860588.59 24.90112 (19120108) 490135.95
3860638.59 23.23005 (16122020)
490185.95 3860638.59 23.69513 (16122020) 490235.95
3860638.59 24.10942 (16122020)
490285.95 3860638.59 24.19174 (16122020) 490335.95
3860638.59 24.01748 (16122020)
490385.95 3860638.59 24.72100 (19120108) 490435.95
3860638.59 25.82956 (19120108)
490485.95 3860638.59 26.90182 (19120108) 490535.95
3860638.59 27.57092 (19120108)
490585.95 3860638.59 27.40844 (19120108) 490635.95
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490685.95 3860638.59 26.09143 (19120108) 490735.95
3860638.59 26.45718 (19120108)
490785.95 3860638.59 26.66619 (19120108) 490135.95
3860688.59 25.25483 (16122020)
490185.95 3860688.59 24.48848 (16122020) 490235.95
3860688.59 25.76654 (19120108)
490285.95 3860688.59 26.22474 (16122020) 490335.95
3860688.59 27.33483 (19120108)
490385.95 3860688.59 28.58759 (19120108) 490435.95
3860688.59 29.25593 (19120108)
490485.95 3860688.59 27.23440 (19120108) 490535.95
3860688.59 27.47357 (19120108)
490585.95 3860688.59 27.77933 (19120108) 490635.95
3860688.59 27.91634 (19120108)
490685.95 3860688.59 27.96782 (19120108) 490735.95
3860688.59 28.20227 (19120108)
490785.95 3860688.59 28.26493 (19120108) 490135.95
3860738.59 28.85573 (20022603)
490185.95 3860738.59 28.82851 (20022603) 490235.95
3860738.59 29.29077 (19120108)
490285.95 3860738.59 30.43705 (19120108) 490335.95
3860738.59 30.87527 (19120108)
490385.95 3860738.59 31.15064 (19120108) 490435.95
3860738.59 31.69192 (19120108)
490485.95 3860738.59 31.98530 (19120108) 490535.95
3860738.59 30.22589 (19120108)
490585.95 3860738.59 30.49176 (19120108) 490635.95
3860738.59 30.60503 (19120108)
490685.95 3860738.59 30.52562 (19120108) 490735.95
3860738.59 30.42400 (19120108)
490785.95 3860738.59 30.26549 (19120108) 490135.95
3860788.59 33.42638 (20022603)
490185.95 3860788.59 33.23013 (20022603) 490235.95

3860788.59   32.91571 (20022603)
        490285.95   3860788.59   32.52484 (19120108)   490335.95
3860788.59   32.76630 (19120108)
        490385.95   3860788.59   32.58621 (19120108)   490435.95
3860788.59   32.65011 (19120108)
        490485.95   3860788.59   32.44451 (19120108)   490535.95
3860788.59   32.75134 (19120108)
        490585.95   3860788.59   33.51007 (19120108)   490635.95
3860788.59   33.81468 (19120108)
        490685.95   3860788.59   33.90396 (19120108)   490735.95
3860788.59   33.72804 (19120108)
        490785.95   3860788.59   34.02927 (19120108)   489985.95
3860838.59   34.21989 (19120108)
        490035.95   3860838.59   35.06770 (19120108)   490085.95
3860838.59   35.86091 (16122024)
        490135.95   3860838.59   37.04620 (16122024)   490185.95
3860838.59   36.30769 (16122024)
        490235.95   3860838.59   36.25577 (19120108)   490285.95
3860838.59   36.31958 (19120108)
        490335.95   3860838.59   36.51698 (19120108)   490385.95
3860838.59   36.60965 (19120108)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK2   ***
                                  INCLUDING SOURCE(S):   L0000539   , L0000540 , L0000541   , L0000542   , L0000543   ,
                  L0000544   , L0000545   , L0000546   , L0000547   , L0000548 , L0000549   , L0000550   , L0000551   ,
                  L0000552   , L0000553   , L0000554   , L0000555   , L0000556 , L0000557   , L0000558   , L0000559   ,
                  L0000560   , L0000561   , L0000562   , L0000563   , L0000564 , L0000565   , L0000566   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                            ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

490435.95 3860838.59 36.48865 (19120108) 490485.95 3860838.59 36.44237 (19120108)
490535.95 3860838.59 36.62526 (19120108) 490585.95 3860838.59 37.07991 (19120108)
490635.95 3860838.59 37.35351 (19120108) 490685.95 3860838.59 37.47453 (19120108)
490735.95 3860838.59 37.51356 (19120108) 490785.95 3860838.59 37.60257 (19120108)
490835.95 3860838.59 37.75204 (19120108) 489835.95 3860888.59 40.01984 (16012120)
489885.95 3860888.59 39.82745 (16012120) 489935.95 3860888.59 39.58282 (16012120)
489985.95 3860888.59 39.94845 (19120108) 490035.95 3860888.59 40.22595 (19120108)
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490285.95 3860888.59 40.93044 (19120108) 490335.95 3860888.59 41.10085 (19120108)
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490485.95 3860888.59 41.19544 (19120108) 490535.95 3860888.59 41.40473 (19120108)
490585.95 3860888.59 41.64060 (19120108) 490635.95 3860888.59 41.87285 (19120108)
490685.95 3860888.59 42.02347 (19120108) 490735.95 3860888.59 42.14130 (19120108)
490785.95 3860888.59 42.37936 (15120221) 490835.95 3860888.59 42.87920 (15120221)
490885.95 3860888.59 43.29647 (15120221) 490935.95 3860888.59 43.71508 (15120221)
489835.95 3860938.59 48.77390 (15022018) 489885.95 3860938.59 48.51495 (15022018)
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490035.95 3860938.59 47.25250 (15022018) 490085.95 3860938.59 46.86410 (16012120)
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490335.95 3860938.59 46.97020 (19120108) 490385.95 3860938.59 46.99789 (19120108)
490435.95 3860938.59 47.06091 (19120108) 490485.95 3860938.59 47.55366 (15120221)
490535.95 3860938.59 48.26126 (15120221) 490585.95 3860938.59 48.93639 (15120221)
490635.95 3860938.59 49.52155 (15120221) 490685.95 3860938.59 50.00155 (15120221)

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        490735.95   3860938.59       50.44012  (20010317)                490785.95
3860938.59       51.23454  (20010317)
        490835.95   3860938.59       51.96001  (20010317)                490885.95
3860938.59       52.58721  (20010317)
        490935.95   3860938.59       53.20366  (20010317)                489835.95
3860988.59       60.25921  (15022018)
        489885.95   3860988.59       60.17165  (15022018)                489935.95
3860988.59       60.03199  (15022018)
        489985.95   3860988.59       59.83708  (15022018)                490035.95
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        490085.95   3860988.59       59.30098  (15022018)                490135.95
3860988.59       59.03687  (15022018)
        490185.95   3860988.59       58.53320  (15022018)                490235.95
3860988.59       58.27897  (15022018)
        490285.95   3860988.59       57.79220  (15022018)                490335.95
3860988.59       58.05759  (15120221)
        490385.95   3860988.59       58.71355  (15120221)                490435.95
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3860988.59       61.65532  (20010317)
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3860988.59       63.27713  (20010317)
        490685.95   3860988.59       63.93613  (20010317)                490735.95
3860988.59       64.38048  (20010317)
        490785.95   3860988.59       64.84528  (20010317)                490835.95
3860988.59       65.41621  (20010317)
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3860988.59       66.40871  (20010317)
        489835.95   3861038.59       83.35163  (18010308)                489885.95
3861038.59       82.97705  (18010308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 747
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK2   ***
                                  INCLUDING SOURCE(S):     L0000539    , L0000540
, L0000541    , L0000542    , L0000543    ,
                  L0000544    , L0000545    , L0000546    , L0000547    , L0000548
, L0000549    , L0000550    , L0000551    ,
                  L0000552    , L0000553    , L0000554    , L0000555    , L0000556
, L0000557    , L0000558    , L0000559    ,
                  L0000560    , L0000561    , L0000562    , L0000563    , L0000564
, L0000565    , L0000566    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
489935.95	3861038.59	82.64858	(18010308)	489985.95	3861038.59	82.22020	(18010308)
490035.95	3861038.59	81.68869	(18010308)	490085.95	3861038.59	81.07755	(18010308)
490135.95	3861038.59	80.37744	(18010308)	490185.95	3861038.59	79.59834	(18010308)
490235.95	3861038.59	78.65362	(18010308)	490285.95	3861038.59	78.87190	(20010317)
490335.95	3861038.59	79.89377	(20010317)	490385.95	3861038.59	80.72374	(20010317)
490435.95	3861038.59	81.41259	(20010317)	490485.95	3861038.59	82.14126	(20010317)
490535.95	3861038.59	82.85342	(20010317)	490585.95	3861038.59	83.46797	(20010317)
490635.95	3861038.59	83.81982	(20010317)	490685.95	3861038.59	84.29231	(19122321)
490735.95	3861038.59	85.15117	(19122321)	490785.95	3861038.59	86.14112	(19122321)
490835.95	3861038.59	87.23010	(19122321)	490885.95	3861038.59	88.25691	(19122321)
490935.95	3861038.59	89.31181	(19122321)	489835.95	3861088.59	126.13170	(18010308)
489885.95	3861088.59	126.54700	(18010308)	489935.95	3861088.59	126.92643	(18010308)
489985.95	3861088.59	127.20017	(18010308)	490035.95	3861088.59	127.30371	(18010308)
490085.95	3861088.59	127.53521	(18010308)	490135.95	3861088.59	127.49228	(18010308)
490185.95	3861088.59	127.10994	(18010308)	490235.95	3861088.59	127.36660	(18010308)
490285.95	3861088.59	127.42965	(18010308)	490335.95	3861088.59	127.41243	(18010308)
490385.95	3861088.59	127.68929	(19122321)	490435.95	3861088.59	129.30462	(19122321)
490485.95	3861088.59	130.82884	(19122321)	490535.95	3861088.59	132.29662	(19122321)
490585.95	3861088.59	133.58774	(19122321)	490635.95	3861088.59	133.24072	(19122321)
490685.95	3861088.59	133.48689	(19122321)	490735.95	3861088.59	134.74057	(19122321)
490785.95	3861088.59	136.12612	(19122321)	490835.95			

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 3859879.4 |    101.93072 (16020819)     99.78448 (16020819)     94.35283 (16020819)
    85.98936 (16020819)     89.73908 (15120819)
 3859860.0 |    100.81696 (16020819)     98.82843 (16020819)     93.54608 (16020819)
    85.42896 (16020819)     88.51978 (15120819)
 3859840.5 |     99.69399 (16020819)     97.83653 (16020819)     92.69160 (16020819)
    84.79300 (16020819)     87.31676 (15120819)
 3859821.1 |     98.57134 (16020819)     96.82010 (16020819)     91.72936 (16020819)
    84.00465 (16020819)     86.14442 (15120819)
 3859801.7 |     97.44655 (16020819)     95.77858 (16020819)     90.96038 (16020819)
    83.38059 (16020819)     84.97734 (15120819)
 3859782.3 |     96.36756 (16020819)     94.79747 (16020819)     90.19850 (16020819)
    82.68027 (16020819)     83.83179 (15120819)
 3859762.9 |     95.33556 (16020819)     93.87655 (16020819)     89.39028 (16020819)
    82.14756 (16020819)     82.70265 (15120819)
 3859743.4 |     94.32171 (16020819)     92.96894 (16020819)     88.59304 (16020819)
    81.61525 (16020819)     81.58723 (15120819)
 3859724.0 |     93.30538 (16020819)     92.07444 (16020819)     87.85979 (16020819)
    81.08362 (16020819)     80.49037 (15120819)
 3859704.6 |     92.30831 (16020819)     91.12232 (16020819)     87.13364 (16020819)
    80.55293 (16020819)     79.40771 (15120819)
 3859685.2 |     91.32993 (16020819)     90.25947 (16020819)     86.45792 (16020819)
    80.14682 (16020819)     78.32674 (15120819)
 3859665.8 |     90.39203 (16020819)     89.43993 (16020819)     85.77993 (16020819)
    79.76623 (16020819)     77.24589 (15120819)
 3859646.4 |     89.45012 (16020819)     88.57040 (16020819)     84.95789 (16020819)
    79.07922 (16020819)     76.25469 (15120819)
 3859626.9 |     88.52530 (16020819)     87.71509 (16020819)     84.13361 (16020819)
    78.38805 (16020819)     75.24427 (15120819)
 3859607.5 |     87.61700 (16020819)     86.87367 (16020819)     83.45495 (16020819)
    77.75428 (16020819)     74.24139 (15120819)
 3859588.1 |     86.67108 (16020819)     85.97732 (16020819)     82.69355 (16020819)
    77.12404 (16020819)     73.24741 (15120819)
 3859568.7 |     85.76114 (16020819)     85.08033 (16020819)     81.93862 (16020819)
    76.49701 (16020819)     72.25001 (15120819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 749
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK3   ***
                                   INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                   L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                   L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
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L0000922 , L0000923 , L0000924 , L0000925 , L0000926
, L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	489333.76	489353.06	489372.36	489391.66	489410.96
3859957.1	95.78758 (15120819)	94.32432 (15120819)	90.26712 (15120819)	83.98625 (15120819)	76.22559 (15120819)
3859937.6	94.84940 (15120819)	93.71385 (15120819)	90.08378 (15120819)	84.29413 (15120819)	76.99279 (15120819)
3859918.2	93.81289 (15120819)	92.92353 (15120819)	89.53616 (15120819)	84.02870 (15120819)	76.88254 (15120819)
3859898.8	92.80060 (15120819)	92.15836 (15120819)	89.14057 (15120819)	84.05955 (15120819)	77.27460 (15120819)
3859879.4	91.72953 (15120819)	91.33629 (15120819)	88.66303 (15120819)	83.99340 (15120819)	77.77725 (15120819)
3859860.0	90.65415 (15120819)	90.46386 (15120819)	88.05476 (15120819)	83.68081 (15120819)	77.78350 (15120819)
3859840.5	89.58604 (15120819)	89.59089 (15120819)	87.41270 (15120819)	83.32455 (15120819)	77.69348 (15120819)
3859821.1	88.55143 (15120819)	88.72666 (15120819)	86.76187 (15120819)	82.91931 (15120819)	77.55962 (15120819)
3859801.7	87.47373 (15120819)	87.85411 (15120819)	86.09525 (15120819)	82.49029 (15120819)	77.39662 (15120819)
3859782.3	86.43043 (15120819)	86.98154 (15120819)	85.42449 (15120819)	82.03652 (15120819)	77.16504 (15120819)
3859762.9	85.45680 (15120819)	86.12367 (15120819)	84.77495 (15120819)	81.56646 (15120819)	76.87179 (15120819)
3859743.4	84.44747 (15120819)	85.27784 (15120819)	84.10449 (15120819)	81.09596 (15120819)	76.58206 (15120819)
3859724.0	83.44758 (15120819)	84.42409 (15120819)	83.42361 (15120819)	80.62687 (15120819)	76.30992 (15120819)
3859704.6	82.43059 (15120819)	83.54153 (15120819)	82.72972 (15120819)	80.13837 (15120819)	76.03803 (15120819)
3859685.2	81.42455 (15120819)	82.68215 (15120819)	82.05174 (15120819)	79.64376 (15120819)	75.72761 (15120819)
3859665.8	80.42294 (15120819)	81.82608 (15120819)	81.38052 (15120819)	79.14274 (15120819)	75.39256 (15120819)
3859646.4	79.50871 (15120819)	81.00901 (15120819)	80.69035 (15120819)	78.63570 (15120819)	75.05153 (15120819)
3859626.9	78.58586 (15120819)	80.17895 (15120819)	79.99770 (15120819)		

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489430.26	489449.56	489468.86	489488.16	489507.46
3859957.1	69.18065 (19102618)	66.97735 (19102618)	63.88521 (19102618)	58.70686 (19102618)	54.18246 (19102618)
3859937.6	69.90336 (19102618)	68.40561 (19102618)	65.87939 (19102618)	61.82795 (19102618)	58.13477 (18120603)
3859918.2	68.65867 (15120819)	67.87489 (19102618)	66.06347 (19102618)	62.93183 (19102618)	59.38605 (18120603)
3859898.8	69.43898 (15120819)	67.94219 (19102618)	65.89735 (19102618)	63.10368 (19102618)	59.72312 (19102618)
3859879.4	70.46447 (15120819)	68.22132 (19102618)	65.69941 (19102618)	63.24224 (19102618)	60.61215 (19102618)
3859860.0	70.84511 (15120819)	69.09650 (19102618)	67.21474 (19102618)	64.61773 (19102618)	61.51008 (19102618)

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 3859840.5 |     71.03124 (15120819)     69.16004 (19102618)     67.90548 (19102618)
    65.29884 (19102618)     61.89548 (19102618)
 3859821.1 |     71.04093 (15120819)     68.55975 (19102618)     67.74496 (19102618)
    65.46303 (19102618)     61.94438 (19102618)
 3859801.7 |     71.17014 (15120819)     68.27829 (19102618)     67.53555 (19102618)
    65.47899 (19102618)     62.24830 (19102618)
 3859782.3 |     71.19932 (15120819)     67.91517 (19102618)     67.35747 (19102618)
    65.36514 (19102618)     62.41476 (19102618)
 3859762.9 |     71.06988 (15120819)     67.35230 (19102618)     67.18486 (19102618)
    65.21612 (19102618)     62.02782 (19102618)
 3859743.4 |     70.97084 (15120819)     66.63361 (19102618)     66.69205 (19102618)
    65.03249 (19102618)     61.97125 (19102618)
 3859724.0 |     70.85818 (15120819)     65.83673 (19102618)     66.11162 (19102618)
    64.74225 (19102618)     61.97436 (19102618)
 3859704.6 |     70.77163 (15120819)     65.08482 (19102618)     65.63376 (19102618)
    64.42551 (19102618)     61.94579 (19102618)
 3859685.2 |     70.64747 (15120819)     64.79149 (15120819)     65.01238 (19102618)
    64.08307 (19102618)     61.88569 (19102618)
 3859665.8 |     70.46227 (15120819)     64.76059 (15120819)     64.37245 (19102618)
    63.71574 (19102618)     61.79437 (19102618)
 3859646.4 |     70.27955 (15120819)     64.74085 (15120819)     63.71507 (19102618)
    63.25890 (19102618)     61.60177 (19102618)
 3859626.9 |     70.08404 (15120819)     64.70901 (15120819)     63.04133 (19102618)
    62.91001 (19102618)     61.58458 (19102618)
 3859607.5 |     69.93724 (15120819)     64.66535 (15120819)     62.46644 (19102618)
    62.64587 (19102618)     61.57098 (19102618)
 3859588.1 |     69.72238 (15120819)     64.53729 (15120819)     61.52674 (19102618)
    61.95660 (19102618)     61.12583 (19102618)
 3859568.7 |     69.47408 (15120819)     64.38418 (15120819)     60.54418 (19102618)
    61.16741 (19102618)     60.59184 (19102618)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 751
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK3   ***
                                   INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                   L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                   L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
                   L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
```

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	489526.76	489546.06	489565.36	489584.66	489603.96
3859957.1	53.81821 (18120603)	53.64972 (18120603)	52.17906 (18120603)	49.80480 (18120603)	45.93524 (18120603)
3859937.6	59.39692 (18120603)	59.13484 (18120603)	57.67567 (18120603)	55.12405 (18120603)	51.96831 (18120603)
3859918.2	60.81021 (18120603)	60.45670 (18120603)	58.07565 (18120603)	56.02897 (18120603)	53.69621 (18120603)
3859898.8	61.20037 (18120603)	60.63199 (18120603)	59.61512 (18120603)	58.18404 (18120603)	54.96048 (18120603)
3859879.4	61.68025 (18120603)	60.95148 (18120603)	60.28685 (18120603)	59.29947 (18120603)	56.77702 (18120603)
3859860.0	62.20309 (18120603)	61.95442 (18120603)	61.60890 (18120603)	60.48773 (18120603)	57.69807 (18120603)
3859840.5	61.88534 (18120603)	62.43060 (18120603)	62.08180 (18120603)	61.07584 (18120603)	58.55758 (18120603)
3859821.1	61.16803 (18120603)	62.12637 (18120603)	61.98371 (18120603)	60.97916 (18120603)	59.49432 (18120603)
3859801.7	60.73116 (18120603)	61.76996 (18120603)	61.99684 (18120603)	61.30631 (18120603)	59.78321 (18120603)
3859782.3	60.22909 (18120603)	61.36200 (18120603)	61.80022 (18120603)	61.42846 (18120603)	59.89699 (18120603)
3859762.9	59.52170 (18120603)	61.05212 (18120603)	61.55579 (18120603)	61.22117 (18120603)	59.84283 (18120603)
3859743.4	59.10950 (19102618)	60.53821 (18120603)	61.26338 (18120603)	60.97832 (18120603)	59.89398 (18120603)
3859724.0	59.24939 (19102618)	59.97652 (18120603)	60.78600 (18120603)	60.83459 (18120603)	60.03850 (18120603)
3859704.6	59.36128 (19102618)	59.36886 (18120603)	60.40408 (18120603)	60.64744 (18120603)	60.01389 (18120603)
3859685.2	59.44485 (19102618)	58.71739 (18120603)	59.97597 (18120603)	60.41663 (18120603)	59.83055 (18120603)
3859665.8	59.49987 (19102618)	57.90360 (18120603)	59.50269 (18120603)	60.02084 (18120603)	59.61452 (18120603)
3859646.4	59.52624 (19102618)	57.17676 (18120603)	58.86687 (18120603)	59.58891 (18120603)	59.36538 (18120603)
3859626.9	59.46611 (19102618)	56.52390 (18120603)	58.42642 (18120603)	59.35127 (18120603)	59.19743 (18120603)
3859607.5	59.49320 (19102618)	56.48289 (19102618)	58.03864 (18120603)	59.16538 (18120603)	58.98955 (18120603)
3859588.1	59.16333 (19102618)	56.35344 (19102618)	57.18863 (18120603)		

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)
489623.26	
3859957.1	41.87503 (18120603)
3859937.6	46.55426 (18120603)
3859918.2	49.31625 (18120603)
3859898.8	52.37180 (18120603)
3859879.4	54.19822 (18120603)
3859860.0	55.44372 (18120603)
3859840.5	56.61068 (18120603)
3859821.1	57.42171 (18120603)
3859801.7	58.04581 (18120603)
3859782.3	58.49854 (18120603)
3859762.9	59.02429 (18120603)
3859743.4	59.27596 (18120603)
3859724.0	59.38621 (18120603)
3859704.6	59.36221 (18120603)
3859685.2	59.20659 (18120603)
3859665.8	59.02420 (18120603)
3859646.4	58.81444 (18120603)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3   ***
                                  INCLUDING SOURCE(S):   L0000901   , L0000902 , L0000903   , L0000904   , L0000905   ,
                  L0000906   , L0000907   , L0000908   , L0000909   , L0000910 , L0000911   , L0000912   , L0000913   ,
                  L0000914   , L0000915   , L0000916   , L0000917   , L0000918 , L0000919   , L0000920   , L0000921   ,
                  L0000922   , L0000923   , L0000924   , L0000925   , L0000926 , L0000927   , L0000928   , . . .   ,

                                   *** NETWORK ID: UCART2   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489260.34   489284.99   489309.64
      489334.29   489358.94
 -

 3859173.4 | 69.99640 (16020819)   66.85935 (16020819)   61.95997 (16020819)
    59.14655 (15120819)   62.96061 (15120819)
 3859151.9 | 69.35232 (16020819)   66.81005 (16020819)   61.70645 (16020819)
    58.35364 (15120819)   62.21407 (15120819)
 3859130.3 | 68.86402 (16020819)   66.48712 (16020819)   61.36884 (16020819)
    57.57174 (15120819)   61.47506 (15120819)
 3859108.7 | 68.37530 (16020819)   66.01861 (16020819)   60.95465 (16020819)
    56.76298 (15120819)   60.71123 (15120819)
 3859087.1 | 67.82318 (16020819)   65.41906 (16020819)   60.54378 (16020819)
    56.00231 (15120819)   59.98688 (15120819)
 3859065.6 | 67.21453 (16020819)   64.89464 (16020819)   60.13622 (16020819)
    55.21209 (15120819)   59.27009 (15120819)
 3859044.0 | 66.54981 (16020819)   64.30695 (16020819)   59.65522 (16020819)
    54.47214 (15120819)   58.52557 (15120819)
 3859022.4 | 65.95873 (16020819)   63.79541 (16020819)   59.25491 (16020819)

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    53.74258 (15120819)     57.82352 (15120819)
 3859000.9 |     65.24158 (16020819)     63.21937 (16020819)     58.85790 (16020819)
    53.02327 (15120819)     57.12902 (15120819)
 3858979.3 |     64.59789 (16020819)     62.64831 (16020819)     58.46418 (16020819)
    52.31406 (15120819)     56.44205 (15120819)
 3858957.7 |     64.10185 (16020819)     62.22715 (16020819)     57.99760 (16020819)
    52.07396 (16020819)     55.79939 (15120819)
 3858936.1 |     63.54391 (16020819)     61.73979 (16020819)     57.61095 (16020819)
    51.71929 (16020819)     55.09046 (15120819)
 3858914.6 |     62.99369 (16020819)     61.18731 (16020819)     57.15089 (16020819)
    51.36545 (16020819)     54.42572 (15120819)
 3858893.0 |     62.45105 (16020819)     60.63948 (16020819)     56.61436 (16020819)
    51.01247 (16020819)     53.80646 (15120819)
 3858871.4 |     61.98249 (16020819)     60.24148 (16020819)     56.23891 (16020819)
    50.74443 (16020819)     53.07822 (15120819)
 3858849.9 |     61.51902 (16020819)     59.77675 (16020819)     55.94471 (16020819)
    50.47730 (16020819)     52.43513 (15120819)
 3858828.3 |     60.93322 (16020819)     59.31736 (16020819)     55.57498 (16020819)
    50.29263 (16020819)     51.79931 (15120819)
 3858806.7 |     60.41913 (16020819)     58.86322 (16020819)     55.20835 (16020819)
    50.02682 (16020819)     51.17070 (15120819)
 3858785.2 |     59.84605 (16020819)     58.41425 (16020819)     54.92000 (16020819)
    49.76203 (16020819)     50.59060 (15120819)
 3858763.6 |     59.27843 (16020819)     57.90026 (16020819)     54.48430 (16020819)
    49.41852 (16020819)     49.93498 (15120819)
 3858742.0 |     58.57404 (16020819)     57.24302 (16020819)     53.89547 (16020819)
    48.91159 (16020819)     49.19415 (15120819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 754
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK3   ***
                                   INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                  L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                  L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
                  L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

Y-COORD (METERS)	X-COORD (METERS)				
	489383.59	489408.24	489432.89	489457.54	489482.19
3859173.4	64.99097 (15120819)	65.02465 (15120819)	63.13281 (15120819)	59.53785 (15120819)	54.62822 (15120819)
3859151.9	64.33826 (15120819)	64.50195 (15120819)	62.76197 (15120819)	59.32448 (15120819)	54.60921 (15120819)
3859130.3	63.66254 (15120819)	63.97807 (15120819)	62.35517 (15120819)	59.10328 (15120819)	54.53308 (15120819)
3859108.7	63.01614 (15120819)	63.45328 (15120819)	61.94223 (15120819)	58.83551 (15120819)	54.44793 (15120819)
3859087.1	62.40021 (15120819)	62.90151 (15120819)	61.55743 (15120819)	58.55957 (15120819)	54.35396 (15120819)
3859065.6	61.73402 (15120819)	62.31733 (15120819)	61.16846 (15120819)	58.35719 (15120819)	54.29531 (15120819)
3859044.0	61.06923 (15120819)	61.75900 (15120819)	60.77558 (15120819)	58.14583 (15120819)	54.18395 (15120819)
3859022.4	60.43740 (15120819)	61.29453 (15120819)	60.41109 (15120819)	57.88967 (15120819)	54.02112 (15120819)
3859000.9	59.77787 (15120819)	60.73795 (15120819)	60.01115 (15120819)	57.62723 (15120819)	53.93689 (15120819)
3858979.3	59.12005 (15120819)	60.21194 (15120819)	59.60808 (15120819)	57.39479 (15120819)	53.80174 (15120819)
3858957.7	58.53400 (15120819)	59.68640 (15120819)	59.20205 (15120819)	57.15477 (15120819)	53.65918 (15120819)
3858936.1	57.88371 (15120819)	59.12861 (15120819)	58.72716 (15120819)	56.80535 (15120819)	53.46757 (15120819)
3858914.6	57.27200 (15120819)	58.60445 (15120819)	58.31599 (15120819)	56.48375 (15120819)	53.31112 (15120819)
3858893.0	56.70000 (15120819)	58.04640 (15120819)	57.90262 (15120819)	56.19440 (15120819)	53.14788 (15120819)
3858871.4	56.06195 (15120819)	57.52432 (15120819)	57.48727 (15120819)	55.86203 (15120819)	52.93569 (15120819)
3858849.9	55.42622 (15120819)	57.00360 (15120819)	57.03439 (15120819)	55.52397 (15120819)	52.71633 (15120819)
3858828.3	54.83227 (15120819)	56.44721 (15120819)	56.57829 (15120819)	55.22151 (15120819)	52.53456 (15120819)
3858806.7	54.20337 (15120819)	55.80798 (15120819)	56.11913 (15120819)	54.87401 (15120819)	52.34682 (15120819)
3858785.2	53.65843 (15120819)	55.33376 (15120819)	55.69772 (15120819)	54.52133 (15120819)	52.06350 (15120819)
3858763.6	53.07864 (15120819)	54.89955 (15120819)	55.27526 (15120819)	54.20754 (15120819)	51.81804 (15120819)
3858742.0	52.42133 (15120819)	54.30693 (15120819)	54.85194 (15120819)	53.89028 (15120819)	51.61413 (15120819)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489506.84	489531.49	489556.14	489580.79	489605.44
3859173.4	49.12441 (19102618)	50.52142 (19102618)	50.67200 (19102618)	49.13000 (19102618)	46.60426 (19102618)
3859151.9	48.95310 (15120819)	49.99414 (19102618)	50.17428 (19102618)	48.95529 (19102618)	46.72030 (19102618)
3859130.3	49.00085 (15120819)	49.53143 (19102618)	49.80930 (19102618)	48.83465 (19102618)	46.68232 (19102618)
3859108.7	49.03932 (15120819)	48.97975 (19102618)	49.50264 (19102618)	48.62475 (19102618)	46.49148 (19102618)
3859087.1	49.22241 (15120819)	48.49214 (19102618)	49.17897 (19102618)	48.32686 (19102618)	46.35091 (19102618)
3859065.6	49.24150 (15120819)	47.99253 (19102618)	48.69622 (19102618)	48.08376 (19102618)	46.19304 (19102618)
3859044.0	49.20267 (15120819)	47.48176 (19102618)	48.27198 (19102618)	47.82450 (19102618)	46.08938 (19102618)
3859022.4	49.20476 (15120819)	46.81922 (19102618)	47.97615 (19102618)	47.54952 (19102618)	45.96953 (19102618)
3859000.9	49.14901 (15120819)	46.22058 (19102618)	47.52566 (19102618)	47.25928 (19102618)	45.83369 (19102618)
3858979.3	49.13481 (15120819)	45.54301 (19102618)	46.99374 (19102618)		

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	489630.09	489654.74	489679.39

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      489704.04              489728.69
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3   ***
INCLUDING SOURCE(S):   L0000901   , L0000902 , L0000903   , L0000904   , L0000905   ,
L0000906   , L0000907   , L0000908   , L0000909   , L0000910 , L0000911   , L0000912   , L0000913   ,
L0000914   , L0000915   , L0000916   , L0000917   , L0000918 , L0000919   , L0000920   , L0000921   ,
L0000922   , L0000923   , L0000924   , L0000925   , L0000926 , L0000927   , L0000928   , . . .   ,

*** NETWORK ID: UCART2   ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 489753.34
3859173.4	45.85457 (18120603)
3859151.9	45.75151 (18120603)
3859130.3	45.62727 (18120603)
3859108.7	45.38610 (18120603)
3859087.1	45.41026 (18120603)
3859065.6	45.31873 (18120603)
3859044.0	45.11045 (18120603)
3859022.4	44.88020 (18120603)
3859000.9	44.62799 (18120603)
3858979.3	44.35389 (18120603)
3858957.7	43.95663 (18120603)
3858936.1	43.63817 (18120603)
3858914.6	43.29817 (18120603)
3858893.0	43.04085 (18120603)
3858871.4	42.65947 (18120603)
3858849.9	42.36163 (18120603)
3858828.3	41.94014 (18120603)
3858806.7	41.70605 (18120603)
3858785.2	41.34894 (18120603)
3858763.6	40.87070 (18120603)
3858742.0	40.37427 (18120603)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	488584.66	488614.48	488644.30	488674.12	488703.94
3858905.0	42.43399 (18010221)	44.34787 (18010221)	45.44868 (18010221)	45.58176 (18010221)	45.19639 (19011424)
3858880.0	42.47841 (18010221)	44.24340 (18010221)	45.19510 (18010221)	45.16570 (18010221)	45.14881 (19011424)
3858855.1	42.49113 (18010221)	44.14378 (18010221)	44.89665 (18010221)	44.63378 (18010221)	45.12948 (19011424)
3858830.2	42.49481 (18010221)	44.00654 (18010221)	44.52635 (18010221)	43.90635 (18010221)	45.13799 (19011424)
3858805.3	42.36497 (18010221)	43.50941 (18010221)	44.22090 (18010221)	43.61157 (18010221)	45.12176 (19011424)
3858780.3	42.41237 (18010221)	43.63118 (18010221)	43.91150 (18010221)	43.10601 (18010221)	44.97541 (19011424)
3858755.4	42.38021 (18010221)	43.45385 (18010221)	43.55536 (18010221)	42.59795 (19011424)	44.89901 (19011424)
3858730.5	42.29939 (18010221)	43.20802 (18010221)	43.15616 (18010221)	42.66875 (19011424)	44.82254 (19011424)
3858705.5	42.19699 (18010221)	42.96892 (18010221)	42.73457 (18010221)	42.68191 (19011424)	44.70302 (19011424)
3858680.6	42.05938 (18010221)	42.69218 (18010221)	42.22534 (18010221)	42.61657 (19011424)	44.48111 (19011424)
3858655.7	41.89876 (18010221)	42.39300 (18010221)	41.84712 (18010221)	42.63501 (19011424)	44.32488 (19011424)

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 3858630.8 |     41.69815 (18010221)     42.03949 (18010221)     41.34285 (18010221)
    42.59405 (19011424)     44.12749 (19011424)
 3858605.8 |     41.47120 (18010221)     41.65916 (18010221)     40.81765 (18010221)
    42.53503 (19011424)     43.91131 (19011424)
 3858580.9 |     41.23978 (18010221)     41.27412 (18010221)     40.27255 (18010221)
    42.45796 (19011424)     43.65447 (19011424)
 3858556.0 |     41.06585 (18010221)     40.90926 (18010221)     40.26689 (19011424)
    42.34298 (19011424)     43.40165 (19011424)
 3858531.0 |     40.75412 (18010221)     40.46172 (18010221)     40.29186 (19011424)
    42.23012 (19011424)     43.13111 (19011424)
 3858506.1 |     40.48016 (18010221)     40.03698 (18010221)     40.25887 (19011424)
    42.05652 (19011424)     42.79501 (19011424)
 3858481.2 |     40.16405 (18010221)     39.57051 (18010221)     40.20589 (19011424)
    41.88531 (19011424)     42.46419 (19011424)
 3858456.2 |     39.82680 (18010221)     39.05950 (18010221)     40.18174 (19011424)
    41.71978 (19011424)     42.14279 (19011424)
 3858431.3 |     39.46886 (18010221)     38.55421 (18010221)     40.14118 (19011424)
    41.53718 (19011424)     41.80553 (19011424)
 3858406.4 |     39.13994 (18010221)     38.05892 (18010221)     40.12938 (19011424)
    41.36099 (19011424)     41.45295 (19011424)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 759
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK3   ***
                                   INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                  L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                  L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
                  L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,

                                    *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       488733.76              488763.58              488793.40
      488823.22              488853.04
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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 3858905.0 |     47.43364 (19011424)     48.33876 (19011424)     48.99291 (20022718)
    49.70218 (20022718)     49.06316 (20022718)
 3858880.0 |     47.14795 (19011424)     48.04031 (19011424)     48.72070 (20022718)
    49.24405 (20022718)     48.48043 (20022718)
 3858855.1 |     46.92496 (19011424)     47.82616 (19011424)     48.41208 (20022718)
    48.80823 (20022718)     47.89258 (20022718)
 3858830.2 |     46.91108 (19011424)     47.39261 (19011424)     48.08664 (20022718)
    48.34644 (20022718)     47.30033 (20022718)
 3858805.3 |     46.67699 (19011424)     46.93793 (19011424)     47.78034 (20022718)
    47.88422 (20022718)     46.70659 (20022718)
 3858780.3 |     46.39723 (19011424)     46.46289 (19011424)     47.46061 (20022718)
    47.42043 (20022718)     46.10617 (20022718)
 3858755.4 |     46.09581 (19011424)     46.11539 (20022718)     47.12052 (20022718)
    46.94661 (20022718)     45.50373 (20022718)
 3858730.5 |     45.85117 (19011424)     45.89493 (20022718)     46.76159 (20022718)
    46.46036 (20022718)     44.90546 (20022718)
 3858705.5 |     45.58259 (19011424)     45.66123 (20022718)     46.40114 (20022718)
    45.96410 (20022718)     44.34669 (18020119)
 3858680.6 |     45.22614 (19011424)     45.41480 (20022718)     46.02250 (20022718)
    45.46202 (20022718)     43.93556 (18020119)
 3858655.7 |     44.84988 (19011424)     45.17989 (20022718)     45.65189 (20022718)
    44.95923 (20022718)     43.58535 (18020119)
 3858630.8 |     44.47963 (19011424)     44.92233 (20022718)     45.26407 (20022718)
    44.45155 (20022718)     43.19981 (18020119)
 3858605.8 |     44.09211 (19011424)     44.65403 (20022718)     44.87411 (20022718)
    43.94140 (20022718)     42.77940 (18020119)
 3858580.9 |     43.66235 (19011424)     44.38483 (20022718)     44.46995 (20022718)
    43.42388 (20022718)     42.34817 (18020119)
 3858556.0 |     43.21510 (19011424)     44.11698 (20022718)     44.06529 (20022718)
    42.90234 (20022718)     41.95873 (18020119)
 3858531.0 |     42.94087 (20022718)     43.82221 (20022718)     43.64375 (20022718)
    42.38014 (20022718)     41.55987 (18020119)
 3858506.1 |     42.76758 (20022718)     43.50895 (20022718)     43.22050 (20022718)
    41.85072 (20022718)     41.10328 (18020119)
 3858481.2 |     42.57473 (20022718)     43.19545 (20022718)     42.78920 (20022718)
    41.31666 (20022718)     40.58353 (18020119)
 3858456.2 |     42.37025 (20022718)     42.87174 (20022718)     42.35019 (20022718)
    40.84015 (18020119)     40.26471 (16122922)
 3858431.3 |     42.14691 (20022718)     42.53692 (20022718)     41.89999 (20022718)
    40.50654 (18020119)     40.34529 (16122922)
 3858406.4 |     41.92220 (20022718)     42.19440 (20022718)     41.45106 (20022718)
    40.16205 (18020119)     40.35380 (16122922)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 760
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***

INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 488882.86	488912.68	488942.50	488972.32	489002.14
3858905.0	47.42366 (18020119)	50.77740 (16122922)	55.12612 (16122922)	57.34575 (16122922)	57.10886 (16122922)
3858880.0	46.94038 (18020119)	50.65372 (16122922)	54.82982 (16122922)	56.90660 (16122922)	56.48008 (16122922)
3858855.1	46.47249 (18020119)	50.51978 (16122922)	54.52465 (16122922)	56.41651 (16122922)	55.82074 (16122922)
3858830.2	45.99341 (18020119)	50.37572 (16122922)	54.18700 (16122922)	55.83711 (16122922)	55.22756 (16122922)
3858805.3	45.53119 (18020119)	50.30687 (16122922)	53.86371 (16122922)	55.19406 (16122922)	54.74528 (18121320)
3858780.3	45.19351 (16122922)	50.05829 (16122922)	53.50490 (16122922)	54.82404 (16122922)	54.27446 (18121320)
3858755.4	45.16644 (16122922)	49.91656 (16122922)	53.19364 (16122922)	54.40842 (16122922)	53.90441 (18121320)
3858730.5	45.22809 (16122922)	49.82385 (16122922)	52.90314 (16122922)	53.95665 (16122922)	53.56757 (18121320)
3858705.5	45.27424 (16122922)	49.69069 (16122922)	52.57924 (16122922)	53.47342 (16122922)	53.25932 (18121320)
3858680.6	45.16270 (16122922)	49.49593 (16122922)	52.24963 (16122922)	52.98850 (16122922)	52.85255 (18121320)
3858655.7	45.16256 (16122922)	49.31988 (16122922)	51.91459 (16122922)	52.55746 (16122922)	52.50818 (18121320)
3858630.8	45.12315 (16122922)	49.16182 (16122922)	51.57444 (16122922)	52.07025 (16122922)	52.13122 (18121320)
3858605.8	45.07523 (16122922)	48.99454 (16122922)	51.25469 (16122922)	51.58221 (16122922)	51.75355 (18121320)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489031.96	489061.78	489091.60	489121.42	489151.24
3858905.0	60.13639 (20040918)	64.36248 (20040918)	65.95636 (20040918)	64.55660 (20040918)	61.79267 (19122223)
3858880.0	59.78484 (20040918)	63.86008 (20040918)	65.33121 (20040918)		
3858580.9	45.04669 (16122922)	48.81838 (16122922)	50.92904 (16122922)	51.06621 (16122922)	51.37533 (18121320)
3858556.0	44.98185 (16122922)	48.58976 (16122922)	50.57525 (16122922)	50.57707 (16122922)	50.96563 (18121320)
3858531.0	44.90904 (16122922)	48.35373 (16122922)	50.19365 (16122922)	50.08779 (16122922)	50.69985 (20040918)
3858506.1	44.80186 (16122922)	48.11048 (16122922)	49.78073 (16122922)	49.53913 (16122922)	50.43996 (20040918)
3858481.2	44.65840 (16122922)	47.86022 (16122922)	49.38826 (16122922)	49.04993 (16122922)	50.17820 (20040918)
3858456.2	44.50467 (16122922)	47.60317 (16122922)	49.02017 (16122922)	48.56122 (16122922)	49.94840 (20040918)
3858431.3	44.46173 (16122922)	47.33955 (16122922)	48.64909 (16122922)	48.04116 (16122922)	49.68408 (20040918)
3858406.4	44.32424 (16122922)	47.06954 (16122922)	48.24643 (16122922)	47.55382 (16122922)	49.45263 (20040918)

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    63.85939 (20040918)     61.11135 (19122223)
 3858855.1 |     59.46032 (20040918)     63.38471 (20040918)     64.71363 (20040918)
    63.13768 (20040918)     60.47402 (19122223)
 3858830.2 |     59.10832 (20040918)     62.88957 (20040918)     64.04701 (20040918)
    62.38489 (20040918)     59.92388 (19122223)
 3858805.3 |     58.72988 (20040918)     62.34966 (20040918)     63.50075 (20040918)
    61.79527 (20040918)     59.26585 (19122223)
 3858780.3 |     58.32092 (20040918)     61.83511 (20040918)     62.87764 (20040918)
    61.13919 (20040918)     58.73594 (19122223)
 3858755.4 |     57.93940 (20040918)     61.32239 (20040918)     62.22796 (20040918)
    60.45527 (20040918)     58.13505 (19122223)
 3858730.5 |     57.62020 (20040918)     60.81169 (20040918)     61.61287 (20040918)
    59.77897 (20040918)     57.54166 (19122223)
 3858705.5 |     57.29935 (20040918)     60.39430 (20040918)     61.10311 (20040918)
    59.11025 (20040918)     56.95559 (19122223)
 3858680.6 |     56.94994 (20040918)     59.97367 (20040918)     60.62007 (20040918)
    58.57301 (20040918)     56.54391 (19122223)
 3858655.7 |     56.60114 (20040918)     59.45243 (20040918)     60.03283 (20040918)
    58.03849 (20040918)     56.05485 (19122223)
 3858630.8 |     56.25310 (20040918)     58.98710 (20040918)     59.45018 (20040918)
    57.47349 (20040918)     55.60707 (19122223)
 3858605.8 |     55.90587 (20040918)     58.55256 (20040918)     58.87217 (20040918)
    56.84727 (20040918)     55.06096 (19122223)
 3858580.9 |     55.55953 (20040918)     58.09479 (20040918)     58.33092 (20040918)
    56.18916 (20040918)     54.44425 (19122223)
 3858556.0 |     55.18617 (20040918)     57.61370 (20040918)     57.79605 (20040918)
    55.57432 (20040918)     53.94836 (19122223)
 3858531.0 |     54.84194 (20040918)     57.16340 (20040918)     57.26748 (20040918)
    55.00769 (20040918)     53.45981 (19122223)
 3858506.1 |     54.49878 (20040918)     56.68798 (20040918)     56.74514 (20040918)
    54.48941 (20040918)     52.97842 (19122223)
 3858481.2 |     54.12762 (20040918)     56.24505 (20040918)     56.19619 (20040918)
    53.89828 (20040918)     52.50400 (19122223)
 3858456.2 |     53.75633 (20040918)     55.80581 (20040918)     55.68587 (20040918)
    53.31306 (20040918)     52.03637 (19122223)
 3858431.3 |     53.41685 (20040918)     55.33971 (20040918)     55.14687 (20040918)
    52.77725 (20040918)     51.49375 (19122223)
 3858406.4 |     53.07862 (20040918)     54.87557 (20040918)     54.61172 (20040918)
    52.15945 (20040918)     51.03957 (19122223)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 762
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK3   ***
                                  INCLUDING SOURCE(S):     L0000901    , L0000902
```

```
, L0000903    , L0000904    , L0000905    ,
                L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
                L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489181.06
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3858905.0 |     59.66779 (19122223)
 3858880.0 |     59.04704 (19122223)
 3858855.1 |     58.39088 (19122223)
 3858830.2 |     57.74414 (19122223)
 3858805.3 |     57.10661 (19122223)
 3858780.3 |     56.52839 (19122223)
 3858755.4 |     56.00851 (19122223)
 3858730.5 |     55.40104 (19122223)
 3858705.5 |     54.80181 (19122223)
 3858680.6 |     54.26147 (19122223)
 3858655.7 |     53.77909 (19122223)
 3858630.8 |     53.34960 (19122223)
 3858605.8 |     52.83453 (19122223)
 3858580.9 |     52.28186 (19122223)
 3858556.0 |     51.82881 (19122223)
 3858531.0 |     51.29226 (19122223)
 3858506.1 |     50.80893 (19122223)
 3858481.2 |     50.33306 (19122223)
 3858456.2 |     49.81807 (19122223)
 3858431.3 |     49.30925 (19122223)
 3858406.4 |     48.85511 (19122223)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 763
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK3   ***
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INCLUDING SOURCE(S): L0000901 , L0000902
, L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910
, L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918
, L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926
, L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)			
	489386.10	489460.62	489535.14	489609.66
489684.18				
3861675.8	96.15845 (20030523)	77.33055 (16010405)	65.23719 (15121808)	57.37942 (15121808)
51.06793 (15121808)				
3861650.6	97.23783 (20030523)	77.49221 (16010405)	65.91939 (15121808)	57.80713 (15121808)
51.36504 (15121808)				
3861625.5	98.11474 (20030523)	77.39243 (16010405)	65.99599 (15121808)	57.88145 (15121808)
51.50461 (15121808)				
3861600.3	98.69876 (20030523)	78.07318 (16010405)	65.99610 (15121808)	57.94015 (15121808)
51.73010 (15121808)				
3861575.2	100.74050 (18120603)	78.05291 (16010405)	65.85315 (15121808)	57.98388 (15121808)
51.73841 (15121808)				
3861550.1	101.52470 (18120603)	78.15914 (16010405)	66.12158 (15121808)	57.94538 (15121808)
51.56895 (15121808)				
3861524.9	102.10674 (18120603)	78.35905 (16010405)	66.22311 (15121808)	57.83100 (15121808)
51.43790 (15121808)				
3861499.8	102.65593 (18120603)	78.41394 (16010405)	66.19711 (15121808)	57.82096 (15121808)
51.47987 (15121808)				
3861474.6	103.17028 (18120603)	78.40139 (16010405)	66.15978 (15121808)	57.83105 (15121808)
51.53075 (15121808)				
3861449.5	103.56917 (18120603)	78.36992 (16010405)	66.10803 (15121808)	57.74187 (15121808)
51.36935 (15121808)				
3861424.4	104.01871 (18120603)	78.34809 (16010405)	66.00429 (15121808)	57.61910 (15121808)
51.35996 (15121808)				
3861399.2	104.42929 (18120603)	78.24211 (16010405)	65.85684 (15121808)	57.57639 (15121808)
51.33145 (15121808)				
3861374.1	104.76743 (18120603)	78.12805 (15112019)	65.76625 (15121808)	57.51510 (15121808)
51.26389 (15121808)				
3861348.9	105.06992 (18120603)	78.14024 (15112019)	65.65373 (15121808)	57.40375 (15121808)
51.16840 (15121808)				
3861323.8	105.33652 (18120603)	78.27829 (19022322)	65.54740 (15121808)	

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	489758.70	489833.22	489907.74	489982.26	490056.78
3861675.8	45.67727 (15121808)	40.28108 (15121808)	34.43319 (19120108)	32.00095 (19120108)	30.06680 (19120108)
3861650.6	45.89730 (15121808)	40.61775 (15121808)	34.76202 (15121808)	31.96522 (19120108)	30.02045 (19120108)
3861625.5	46.14868 (15121808)	40.92960 (15121808)	35.31000 (15121808)	32.23826 (19120108)	30.21003 (19120108)

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 3861600.3 |     46.35834 (15121808)     41.22523 (15121808)     35.73306 (15121808)
    32.70047 (19120108)     30.62516 (19120108)
 3861575.2 |     46.38582 (15121808)     41.39756 (15121808)     36.09196 (15121808)
    32.83371 (19120108)     30.62580 (19120108)
 3861550.1 |     46.32270 (15121808)     41.51097 (15121808)     36.44780 (15121808)
    32.83614 (19120108)     30.65366 (19120108)
 3861524.9 |     46.28936 (15121808)     41.61377 (15121808)     36.75113 (15121808)
    32.78225 (19120108)     30.77872 (19120108)
 3861499.8 |     46.25925 (15121808)     41.71752 (15121808)     37.02521 (15121808)
    32.81375 (19120108)     30.80119 (19120108)
 3861474.6 |     46.25912 (15121808)     41.81257 (15121808)     37.26602 (15121808)
    32.71261 (19120108)     30.76336 (19120108)
 3861449.5 |     46.31955 (15121808)     41.89700 (15121808)     37.47677 (15121808)
    32.72302 (19120108)     30.73254 (19120108)
 3861424.4 |     46.30055 (15121808)     41.96452 (15121808)     37.64305 (15121808)
    32.94107 (15121808)     30.70740 (19120108)
 3861399.2 |     46.30011 (15121808)     42.00018 (15121808)     37.80921 (15121808)
    33.27346 (15121808)     30.67293 (19120108)
 3861374.1 |     46.27488 (15121808)     42.01474 (15121808)     37.94518 (15121808)
    33.57252 (15121808)     30.63145 (19120108)
 3861348.9 |     46.23204 (15121808)     42.02786 (15121808)     38.05491 (15121808)
    33.84096 (15121808)     30.57916 (19120108)
 3861323.8 |     46.18871 (15121808)     42.02775 (15121808)     38.14880 (15121808)
    34.07979 (15121808)     30.52501 (19120108)
 3861298.7 |     46.13645 (15121808)     42.02052 (15121808)     38.22564 (15121808)
    34.28506 (15121808)     30.46856 (19120108)
 3861273.5 |     46.07321 (15121808)     42.00613 (15121808)     38.28283 (15121808)
    34.46635 (15121808)     30.42737 (19120108)
 3861248.4 |     46.00891 (15121808)     41.97545 (15121808)     38.32449 (15121808)
    34.63597 (15121808)     30.54792 (15121808)
 3861223.2 |     45.93940 (15121808)     41.93800 (15121808)     38.35925 (15121808)
    34.78444 (15121808)     30.84382 (15121808)
 3861198.1 |     45.86694 (15121808)     41.90183 (15121808)     38.38344 (15121808)
    34.90904 (15121808)     31.11158 (15121808)
 3861173.0 |     45.79190 (15121808)     41.86113 (15121808)     38.39826 (15121808)
    35.01361 (15121808)     31.34560 (15121808)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 765
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK3   ***
                                 INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
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                L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
                L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       490131.30               490205.82              490280.34
      490354.86              490429.38
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |     28.32903 (19120108)     26.47940 (19120108)     25.04819 (19120108)
    23.98724 (19120108)     22.97170 (19120108)
 3861650.6 |     28.31255 (19120108)     26.69673 (19120108)     25.48635 (19120108)
    23.99249 (19120108)     22.97558 (19120108)
 3861625.5 |     28.56667 (19120108)     27.07383 (19120108)     25.91954 (19120108)
    24.29921 (19120108)     23.27532 (19120108)
 3861600.3 |     28.91226 (19120108)     27.41612 (19120108)     26.11027 (19120108)
    24.86800 (19120108)     23.78350 (19120108)
 3861575.2 |     28.83324 (19120108)     27.47505 (19120108)     26.09338 (19120108)
    24.80153 (19120108)     23.72195 (19120108)
 3861550.1 |     29.04601 (19120108)     27.50808 (19120108)     26.17680 (19120108)
    24.80212 (19120108)     23.82711 (19120108)
 3861524.9 |     29.05859 (19120108)     27.48042 (19120108)     26.19281 (19120108)
    24.93973 (19120108)     23.77447 (19120108)
 3861499.8 |     29.01995 (19120108)     27.54172 (19120108)     26.21201 (19120108)
    24.98712 (19120108)     23.74711 (19120108)
 3861474.6 |     29.02354 (19120108)     27.51098 (19120108)     26.16259 (19120108)
    24.93936 (19120108)     23.79462 (19120108)
 3861449.5 |     28.98282 (19120108)     27.37344 (19120108)     26.16183 (19120108)
    24.86560 (19120108)     23.75985 (19120108)
 3861424.4 |     28.99011 (19120108)     27.34082 (19120108)     26.14037 (19120108)
    24.83276 (19120108)     23.74923 (19120108)
 3861399.2 |     28.95726 (19120108)     27.44212 (19120108)     26.09729 (19120108)
    24.81339 (19120108)     23.71770 (19120108)
 3861374.1 |     28.91828 (19120108)     27.41567 (19120108)     26.05685 (19120108)
    24.79574 (19120108)     23.69931 (19120108)
 3861348.9 |     28.88220 (19120108)     27.37716 (19120108)     26.03559 (19120108)
    24.78970 (19120108)     23.68267 (19120108)
 3861323.8 |     28.84547 (19120108)     27.36219 (19120108)     26.02324 (19120108)
    24.80645 (19120108)     23.69798 (19120108)
 3861298.7 |     28.77580 (19120108)     27.33271 (19120108)     26.00566 (19120108)
    24.79501 (19120108)     23.71443 (19120108)
 3861273.5 |     28.76236 (19120108)     27.29785 (19120108)     25.98323 (19120108)
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 3861550.1 |     22.71630 (19120108)     21.84437 (19120108)     20.99899 (19120108)
    20.25792 (19120108)     19.59402 (19120108)
 3861524.9 |     22.71457 (19120108)     21.82916 (19120108)     21.00856 (19120108)
    20.28762 (19120108)     19.58197 (19120108)
 3861499.8 |     22.69983 (19120108)     21.81447 (19120108)     21.01762 (19120108)
    20.28484 (19120108)     19.60789 (19120108)
 3861474.6 |     22.71346 (19120108)     21.80055 (19120108)     21.00401 (19120108)
    20.26168 (19120108)     19.62251 (19120108)
 3861449.5 |     22.75111 (19120108)     21.82447 (19120108)     21.00226 (19120108)
    20.26956 (19120108)     19.56537 (19120108)
 3861424.4 |     22.70366 (19120108)     21.82430 (19120108)     20.99001 (19120108)
    20.23685 (19120108)     19.56325 (19120108)
 3861399.2 |     22.68195 (19120108)     21.80215 (19120108)     20.96743 (19120108)
    20.25588 (19120108)     19.54226 (19120108)
 3861374.1 |     22.68715 (19120108)     21.80446 (19120108)     20.96853 (19120108)
    20.25482 (19120108)     19.54105 (19120108)
 3861348.9 |     22.69290 (19120108)     21.79660 (19120108)     20.97047 (19120108)
    20.22526 (19120108)     19.54955 (19120108)
 3861323.8 |     22.69862 (19120108)     21.79008 (19120108)     20.97319 (19120108)
    20.21642 (19120108)     19.54007 (19120108)
 3861298.7 |     22.72067 (19120108)     21.84759 (19120108)     20.96654 (19120108)
    20.28676 (19120108)     19.60363 (19120108)
 3861273.5 |     22.72800 (19120108)     21.83249 (19120108)     20.98935 (19120108)
    20.27130 (19120108)     19.60814 (19120108)
 3861248.4 |     22.73457 (19120108)     21.87342 (19120108)     20.99990 (19120108)
    20.26408 (19120108)     19.61694 (19120108)
 3861223.2 |     22.73701 (19120108)     21.85972 (19120108)     21.01385 (19120108)
    20.27648 (19120108)     19.62230 (19120108)
 3861198.1 |     22.71178 (19120108)     21.84145 (19120108)     21.02571 (19120108)
    20.27938 (19120108)     19.61308 (19120108)
 3861173.0 |     22.68029 (19120108)     21.82492 (19120108)     21.02479 (19120108)
    20.27533 (19120108)     19.59626 (19120108)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                  PAGE 767
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK3   ***
                                  INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
                L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,
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*** NETWORK ID: UCART4   ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 490876.50
3861675.8	18.86127 (19120108)
3861650.6	18.98372 (19120108)
3861625.5	18.96389 (19120108)
3861600.3	18.93383 (19120108)
3861575.2	18.92271 (19120108)
3861550.1	18.91145 (19120108)
3861524.9	18.91003 (19120108)
3861499.8	18.91809 (19120108)
3861474.6	18.93474 (19120108)
3861449.5	18.94140 (19120108)
3861424.4	18.89377 (19120108)
3861399.2	18.90156 (19120108)
3861374.1	18.90007 (19120108)
3861348.9	18.90767 (19120108)
3861323.8	18.92330 (19120108)
3861298.7	18.93010 (19120108)
3861273.5	18.92927 (19120108)
3861248.4	18.94262 (19120108)
3861223.2	18.95388 (19120108)
3861198.1	18.94664 (19120108)
3861173.0	18.94516 (19120108)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK3   ***
                                INCLUDING SOURCE(S):   L0000901   , L0000902
, L0000903   , L0000904   , L0000905   ,
                L0000906   , L0000907   , L0000908   , L0000909   , L0000910
, L0000911   , L0000912   , L0000913   ,
                L0000914   , L0000915   , L0000916   , L0000917   , L0000918
, L0000919   , L0000920   , L0000921   ,
                L0000922   , L0000923   , L0000924   , L0000925   , L0000926

, L0000927   , L0000928   , . . .   ,

*** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	491611.20	491641.99	491672.78	491703.57	491734.36
3861693.5	14.05399 (19120108)	13.82990 (19120708)	13.66447 (19120708)	13.44487 (19120708)	13.23142 (19120708)
3861664.1	14.15583 (19120108)	13.94682 (19120108)	13.71280 (19120108)	13.52410 (19120708)	13.33945 (19120708)
3861634.6	14.24173 (19120108)	14.04433 (19120108)	13.83412 (19120108)	13.62542 (19120108)	13.42584 (19120708)
3861605.2	14.29565 (19120108)	14.12270 (19120108)	13.92804 (19120108)	13.73158 (19120108)	13.53685 (19120108)
3861575.7	14.34344 (19120108)	14.17632 (19120108)	13.99437 (19120108)	13.81746 (19120108)	13.62393 (19120108)
3861546.3	14.37268 (19120108)	14.21970 (19120108)	14.04270 (19120108)	13.87247 (19120108)	13.70251 (19120108)
3861516.8	14.39733 (19120108)	14.24587 (19120108)	14.08740 (19120108)	13.92130 (19120108)	13.75703 (19120108)
3861487.4	14.40896 (19120108)	14.26285 (19120108)	14.11589 (19120108)	13.95717 (19120108)	13.79638 (19120108)
3861457.9	14.41498 (19120108)	14.26748 (19120108)	14.12023 (19120108)	13.97258 (19120108)	13.82383 (19120108)
3861428.5	14.42797 (19120108)	14.27237 (19120108)	14.13419 (19120108)	13.99087 (19120108)	13.84734 (19120108)
3861399.0	14.43253 (19120108)	14.27911 (19120108)	14.14353 (19120108)	13.99817 (19120108)	13.86390 (19120108)
3861369.6	14.42408 (19120108)	14.27767 (19120108)	14.14416 (19120108)	14.00123 (19120108)	13.86479 (19120108)
3861340.1	14.41396 (19120108)	14.27434 (19120108)	14.13686 (19120108)	14.00121 (19120108)	13.86705 (19120108)
3861310.7	14.40848 (19120108)	14.26398 (19120108)	14.12766 (19120108)	13.99345 (19120108)	13.86105 (19120108)
3861281.2	14.40814 (19120108)	14.26419 (19120108)	14.12286 (19120108)	13.99525 (19120108)	13.86400 (19120108)
3861251.8	14.40738 (19120108)	14.26384 (19120108)	14.12302 (19120108)	13.99600 (19120108)	13.86008 (19120108)
3861222.3	14.40637 (19120108)	14.26312 (19120108)	14.12267 (19120108)	13.99051 (19120108)	13.86074 (19120108)
3861192.9	14.39954 (19120108)	14.26218 (19120108)	14.13311 (19120108)	14.00108 (19120108)	13.86076 (19120108)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3   ***
                                  INCLUDING SOURCE(S):   L0000901   , L0000902 , L0000903   , L0000904   , L0000905   ,
                 L0000906   , L0000907   , L0000908   , L0000909   , L0000910 , L0000911   , L0000912   , L0000913   ,
                 L0000914   , L0000915   , L0000916   , L0000917   , L0000918 , L0000919   , L0000920   , L0000921   ,
                 L0000922   , L0000923   , L0000924   , L0000925   , L0000926 , L0000927   , L0000928   , . . .   ,

                                  *** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 491765.15   491795.94   491826.73
      491857.52   491888.31
 - - -

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    13.04673 (19120108)     12.88353 (19120708)
 3861487.4 |     13.63264 (19120108)     13.47021 (19120108)     13.30293 (19120108)
    13.12989 (19120108)     12.95972 (19120108)
 3861457.9 |     13.66802 (19120108)     13.51483 (19120108)     13.36315 (19120108)
    13.20197 (19120108)     13.03552 (19120108)
 3861428.5 |     13.70292 (19120108)     13.55692 (19120108)     13.40857 (19120108)
    13.25215 (19120108)     13.09183 (19120108)
 3861399.0 |     13.72426 (19120108)     13.57887 (19120108)     13.43222 (19120108)
    13.28867 (19120108)     13.14231 (19120108)
 3861369.6 |     13.73413 (19120108)     13.59315 (19120108)     13.45686 (19120108)
    13.31945 (19120108)     13.18516 (19120108)
 3861340.1 |     13.73399 (19120108)     13.60160 (19120108)     13.47951 (19120108)
    13.33685 (19120108)     13.21802 (19120108)
 3861310.7 |     13.73555 (19120108)     13.60571 (19120108)     13.48177 (19120108)
    13.34783 (19120108)     13.22876 (19120108)
 3861281.2 |     13.73456 (19120108)     13.60664 (19120108)     13.47989 (19120108)
    13.35907 (19120108)     13.23345 (19120108)
 3861251.8 |     13.73177 (19120108)     13.60525 (19120108)     13.48551 (19120108)
    13.36163 (19120108)     13.23353 (19120108)
 3861222.3 |     13.72771 (19120108)     13.60223 (19120108)     13.48382 (19120108)
    13.36670 (19120108)     13.24051 (19120108)
 3861192.9 |     13.72829 (19120108)     13.59805 (19120108)     13.48592 (19120108)
    13.37492 (19120108)     13.26003 (19120108)
 3861163.4 |     13.72830 (19120108)     13.61453 (19120108)     13.49215 (19120108)
    13.38167 (19120108)     13.26763 (19120108)
 3861134.0 |     13.73331 (19120108)     13.62960 (19120108)     13.48736 (19120108)
    13.37262 (19120108)     13.24964 (19120108)
 3861104.5 |     13.73271 (19120108)     13.59286 (19120108)     13.47152 (19120108)
    13.35758 (19120108)     13.24032 (19120108)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 770
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK3   ***
                                   INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                  L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                  L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
                  L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,

                                    *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	491919.10	491949.89	491980.68	492011.47	492042.26
3861693.5	12.20063 (16010208)	12.08532 (16010208)	11.96255 (16010208)	11.83749 (16010208)	11.70962 (16010208)
3861664.1	12.24800 (16010208)	12.13203 (16010208)	12.03069 (16010208)	11.91712 (16010208)	11.79660 (16010208)
3861634.6	12.26566 (16010208)	12.16424 (16010208)	12.05693 (16010208)	11.95365 (16010208)	11.84403 (16010208)
3861605.2	12.39433 (19120708)	12.18669 (19120708)	12.07565 (16010208)	11.96657 (16010208)	11.86678 (16010208)
3861575.7	12.53016 (19120708)	12.33786 (19120708)	12.14540 (19120708)	11.98281 (16010208)	11.89602 (16010208)
3861546.3	12.64679 (19120708)	12.47176 (19120708)	12.28837 (19120708)	12.11407 (19120708)	11.91004 (16010208)
3861516.8	12.72912 (19120708)	12.56386 (19120708)	12.39183 (19120708)	12.24044 (19120708)	12.05674 (19120708)
3861487.4	12.78178 (19120708)	12.63861 (19120708)	12.48012 (19120708)	12.32514 (19120708)	12.17643 (19120708)
3861457.9	12.86764 (19120108)	12.68792 (19120108)	12.54799 (19120708)	12.40066 (19120708)	12.27061 (19120708)
3861428.5	12.93657 (19120108)	12.77542 (19120108)	12.60754 (19120108)	12.45246 (19120708)	12.33469 (19120708)
3861399.0	12.99721 (19120108)	12.84751 (19120108)	12.68783 (19120108)	12.52213 (19120108)	12.38135 (19120708)
3861369.6	13.03369 (19120108)	12.90312 (19120108)	12.74947 (19120108)	12.59573 (19120108)	12.44967 (19120108)
3861340.1	13.06345 (19120108)	12.93601 (19120108)	12.79584 (19120108)	12.65205 (19120108)	12.51729 (19120108)
3861310.7	13.08911 (19120108)	12.95808 (19120108)	12.82989 (19120108)	12.69890 (19120108)	12.57326 (19120108)
3861281.2	13.10776 (19120108)	12.98150 (19120108)	12.85414 (19120108)	12.73897 (19120108)	12.60290 (19120108)
3861251.8	13.11609 (19120108)	12.99850 (19120108)	12.88028 (19120108)	12.76548 (19120108)	12.63089 (19120108)
3861222.3	13.13031 (19120108)	13.01538 (19120108)	12.89575 (19120108)	12.77584 (19120108)	12.65059 (19120108)
3861192.9	13.14142 (19120108)	13.02846 (19120108)	12.91137 (19120108)	12.79452 (19120108)	12.66381 (19120108)
3861163.4	13.15023 (19120108)	13.03410 (19120108)	12.91896 (19120108)	12.80898 (19120108)	12.68134 (19120108)
3861134.0	13.14322 (19120108)	13.02839 (19120108)	12.91010 (19120108)	12.79763 (19120108)	12.68588 (19120108)

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3   ***
                                 INCLUDING SOURCE(S):   L0000901   , L0000902 , L0000903   , L0000904   , L0000905   ,
                 L0000906   , L0000907   , L0000908   , L0000909   , L0000910 , L0000911   , L0000912   , L0000913   ,
                 L0000914   , L0000915   , L0000916   , L0000917   , L0000918 , L0000919   , L0000920   , L0000921   ,
                 L0000922   , L0000923   , L0000924   , L0000925   , L0000926 , L0000927   , L0000928   , . . .   ,

                                  *** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

  Y-COORD | X-COORD (METERS)
  (METERS) | 492073.05   492103.84   492134.63
      492165.42   492196.21
 - - -

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  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       492227.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3861693.5 |     10.82931 (16010208)
 3861664.1 |     10.95284 (16010208)
 3861634.6 |     11.04127 (16010208)
 3861605.2 |     11.10890 (16010208)
 3861575.7 |     11.16992 (16010208)
 3861546.3 |     11.23718 (16010208)
 3861516.8 |     11.28768 (16010208)
 3861487.4 |     11.31087 (16010208)
 3861457.9 |     11.32775 (16010208)
 3861428.5 |     11.33530 (16010208)
 3861399.0 |     11.46943 (19120708)
 3861369.6 |     11.58102 (19120708)
 3861340.1 |     11.66986 (19120708)
 3861310.7 |     11.73073 (19120708)
 3861281.2 |     11.77573 (19120708)
 3861251.8 |     11.80446 (19120108)
 3861222.3 |     11.86716 (19120108)
 3861192.9 |     11.92360 (19120108)
 3861163.4 |     11.97203 (19120108)
 3861134.0 |     12.01872 (19120108)
 3861104.5 |     12.04454 (19120108)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK3   ***
                                   INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                  L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                  L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
                  L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488802.97	3861310.09	56.42084	(16012217)	488863.58	3861309.29	63.94893	(16012217)
488847.63	3861279.78	61.79770	(16012217)	488850.82	3861262.24	62.12095	(16012217)
488810.14	3861261.44	57.20685	(16012217)	488810.94	3861289.36	57.39253	(16012217)
488819.72	3861306.90	58.46570	(16012217)	488816.53	3861235.92	57.87803	(16012217)
488841.25	3861126.66	62.99860	(18122220)	488879.53	3861121.88	62.74186	(16020306)
488913.82	3861121.08	69.26288	(16012217)	488925.79	3861092.37	74.41957	(18010221)
488920.03	3861067.49	75.65178	(18010221)	488996.74	3861113.92	89.61216	(18010221)
488974.03	3861097.77	85.59832	(20122517)	488931.63	3860976.64	76.38070	(20122517)
488935.67	3861034.68	80.15193	(18010221)	488959.90	3861061.43	86.34965	(18010221)
489165.81	3861208.80	278.16841	(16122922)	489317.74	3861109.28	152.37880	(18120603)
489385.87	3861014.75	106.97389	(18120603)	489372.24	3861112.69	112.29798	(18120603)
489420.79	3861106.73	89.62934	(18120603)	489436.12	3861037.74	85.19285	(18120603)
489488.07	3861036.89	72.53638	(15121808)	489473.59	3861110.99	76.58852	(15121808)
489431.01	3861167.20	85.54170	(18120603)	489662.66	3860915.95	51.74097	(15121808)
489644.78	3861076.07	52.44149	(15121808)	489659.26	3861099.06	51.94073	(15121808)
489735.91	3861020.71	46.25551	(15121808)	489700.14	3861029.23	48.33325	(15121808)
489708.65	3861062.44	48.03268	(15121808)	489779.34	3861099.06	44.42920	(15121808)
489835.95	3859138.59	39.39213	(20030523)	489885.95	3859138.59	38.28107	(20030523)
489935.95	3859138.59	36.21168	(20030523)	489985.95	3859138.59	33.48690	(15112019)
490035.95	3859138.59	31.53178	(15112019)	490085.95	3859138.59	29.83215	(15112019)
490135.95	3859138.59	28.22309	(15112019)	490185.95	3859138.59	27.44234	(16010405)
490235.95	3859138.59	26.38398	(16010405)	490285.95	3859138.59	24.41813	(16010405)
490335.95	3859138.59	22.04675	(16010405)	490385.95			

3859138.59   19.17416 (16010405)
        490435.95   3859138.59   17.59685 (16010405)   490485.95
3859138.59   15.15721 (16112920)
        490535.95   3859138.59   12.19347 (16112920)   490585.95
3859138.59   10.04933 (16122521)
        490635.95   3859138.59   8.61031 (16122521)   490685.95
3859138.59   7.53662 (18111819)
        490735.95   3859138.59   6.93673 (18111819)   490785.95
3859138.59   6.23402 (18111819)
        490835.95   3859138.59   7.25663 (19122909)   490885.95
3859138.59   8.35285 (19122909)
        489835.95   3859188.59   40.16761 (20030523)   489885.95
3859188.59   38.52036 (20030523)
        489935.95   3859188.59   36.21308 (20030523)   489985.95
3859188.59   33.71123 (15112019)
        490035.95   3859188.59   32.21119 (15112019)   490085.95
3859188.59   30.89651 (15112019)
        490135.95   3859188.59   28.87302 (16010405)   490185.95
3859188.59   27.69280 (16010405)
        490235.95   3859188.59   25.88845 (16010405)   490285.95
3859188.59   24.22372 (16010405)
        490335.95   3859188.59   22.53999 (16010405)   490385.95
3859188.59   20.26019 (16010405)
        490435.95   3859188.59   17.60954 (16010405)   490485.95
3859188.59   14.40265 (16112920)
        490535.95   3859188.59   11.84972 (16112920)   490585.95
3859188.59   10.34952 (16122521)
        490635.95   3859188.59   8.62665 (16122521)   490685.95
3859188.59   7.00819 (18111819)
        490735.95   3859188.59   6.11997 (20091823)   490785.95
3859188.59   7.02147 (19122909)
        490835.95   3859188.59   8.16405 (19122909)   490885.95
3859188.59   9.17611 (19122909)
        489835.95   3859238.59   40.48154 (20030523)   489885.95
3859238.59   38.81955 (20030523)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3   ***
                                   INCLUDING SOURCE(S):   L0000901   , L0000902 , L0000903   , L0000904   , L0000905   ,
                  L0000906   , L0000907   , L0000908   , L0000909   , L0000910 , L0000911   , L0000912   , L0000913   ,
                  L0000914   , L0000915   , L0000916   , L0000917   , L0000918

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, L0000919    , L0000920    , L0000921    ,
                L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        489935.95   3859238.59       36.00000  (20030523)                489985.95
3859238.59       33.38633  (15112019)
        490035.95   3859238.59       32.18829  (15112019)                490085.95
3859238.59       30.90718  (15112019)
        490135.95   3859238.59       29.83046  (16010405)                490185.95
3859238.59       28.83202  (16010405)
        490235.95   3859238.59       26.68213  (16010405)                490285.95
3859238.59       24.52543  (16010405)
        490335.95   3859238.59       22.38832  (16010405)                490385.95
3859238.59       20.38204  (16010405)
        490435.95   3859238.59       17.97853  (16010405)                490485.95
3859238.59       15.34738  (16112920)
        490535.95   3859238.59       12.55841  (16122521)                490585.95
3859238.59       10.72257  (16122521)
        490635.95   3859238.59        9.10010  (18111819)                490685.95
3859238.59        8.57085  (18111819)
        490735.95   3859238.59        7.26722  (18111819)                490785.95
3859238.59        7.96926  (19122909)
        490835.95   3859238.59        9.02890  (19122909)                490885.95
3859238.59        9.92477  (19122909)
        489835.95   3859288.59       41.04057  (20030523)                489885.95
3859288.59       38.86923  (20030523)
        489935.95   3859288.59       35.98554  (15112019)                489985.95
3859288.59       33.40087  (15112019)
        490035.95   3859288.59       32.41917  (15112019)                490085.95
3859288.59       30.64785  (15112019)
        490135.95   3859288.59       30.14893  (16010405)                490185.95
3859288.59       29.04770  (16010405)
        490235.95   3859288.59       27.16447  (16010405)                490285.95
3859288.59       25.51067  (16010405)
        490335.95   3859288.59       23.06437  (16010405)                490385.95
3859288.59       20.49652  (16010405)
        490435.95   3859288.59       17.40516  (16010405)                490485.95
3859288.59       15.46278  (16010405)
        490535.95   3859288.59       14.72080  (16122521)                490585.95
3859288.59       12.37641  (16122521)
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        490635.95   3859288.59       11.48113  (18111819)                490685.95
3859288.59       10.54372  (18111819)
        490735.95   3859288.59        8.87190  (18111819)                490785.95
3859288.59        8.87080  (19122909)
        490835.95   3859288.59        9.81506  (19122909)                490885.95
3859288.59       10.57268  (19122909)
        489835.95   3859338.59       41.66798  (20030523)                489885.95
3859338.59       39.32847  (20030523)
        489935.95   3859338.59       36.17569  (15112019)                489985.95
3859338.59       34.56308  (15112019)
        490035.95   3859338.59       32.97790  (15112019)                490085.95
3859338.59       31.76493  (16010405)
        490135.95   3859338.59       30.86553  (16010405)                490185.95
3859338.59       29.59393  (16010405)
        490235.95   3859338.59       28.12074  (16010405)                490285.95
3859338.59       26.30364  (16010405)
        490335.95   3859338.59       23.88017  (16010405)                490385.95
3859338.59       21.56674  (16010405)
        490435.95   3859338.59       19.15013  (16010405)                490485.95
3859338.59       16.59792  (16122521)
        490535.95   3859338.59       15.59562  (16122521)                490585.95
3859338.59       14.24482  (16122521)
        490635.95   3859338.59       13.43724  (15121808)                490685.95
3859338.59       11.90706  (15121808)
        490735.95   3859338.59       10.33331  (15121808)                490785.95
3859338.59        9.69521  (19122909)
        490835.95   3859338.59       10.50289  (19122909)                490885.95
3859338.59       11.11339  (19122909)
        489835.95   3859388.59       41.62288  (20030523)                489885.95
3859388.59       38.98410  (20030523)
        489935.95   3859388.59       37.41098  (15112019)                489985.95
3859388.59       35.33537  (15112019)
        490035.95   3859388.59       33.51386  (15112019)                490085.95
3859388.59       32.85274  (16010405)
        490135.95   3859388.59       31.74007  (16010405)                490185.95
3859388.59       30.28302  (16010405)
        490235.95   3859388.59       28.71432  (16010405)                490285.95
3859388.59       27.16807  (16010405)
        490335.95   3859388.59       24.96942  (16010405)                490385.95
3859388.59       22.72833  (16010405)
        490435.95   3859388.59       20.28094  (16010405)                490485.95
3859388.59       18.93704  (15121808)
        490535.95   3859388.59       17.81326  (15121808)                490585.95
3859388.59       16.55206  (15121808)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490635.95	3859388.59	15.54231	(15121808)	490685.95	3859388.59	13.10019	(15121808)
490735.95	3859388.59	10.64516	(15121808)	490785.95	3859388.59	10.42823	(15121808)
490835.95	3859388.59	11.07600	(19122909)	490885.95	3859388.59	11.54709	(19122909)
489835.95	3859438.59	42.71825	(20030523)	489885.95	3859438.59	39.57012	(15112019)
489935.95	3859438.59	37.90917	(15112019)	489985.95	3859438.59	36.05408	(15112019)
490035.95	3859438.59	34.35795	(16010405)	490085.95	3859438.59	33.33472	(16010405)
490135.95	3859438.59	32.24221	(16010405)	490185.95	3859438.59	30.87133	(16010405)
490235.95	3859438.59	29.35654	(16010405)	490285.95	3859438.59	27.67497	(16010405)
490335.95	3859438.59	25.68816	(16010405)	490385.95	3859438.59	23.33776	(16010405)
490435.95	3859438.59	21.78651	(15121808)	490485.95	3859438.59	20.61749	(15121808)
490535.95	3859438.59	19.69891	(15121808)	490585.95	3859438.59	18.70171	(15121808)
490635.95	3859438.59	17.33279	(15121808)	490685.95	3859438.59	15.62757	(15121808)
490735.95	3859438.59	14.50519	(15121808)	490785.95	3859438.59	13.08199	(15121808)
490835.95	3859438.59	12.48297	(15121808)	490885.95			

3859438.59 12.00514 (20121324)
490085.95 3859488.59 34.02067 (16010405) 490135.95
3859488.59 32.67403 (16010405)
490185.95 3859488.59 31.43539 (16010405) 490235.95
3859488.59 29.95276 (16010405)
490285.95 3859488.59 28.07448 (16010405) 490335.95
3859488.59 26.17065 (16010405)
490385.95 3859488.59 24.47381 (15121808) 490435.95
3859488.59 23.49467 (15121808)
490485.95 3859488.59 22.40023 (15121808) 490535.95
3859488.59 21.45747 (15121808)
490585.95 3859488.59 20.19509 (15121808) 490635.95
3859488.59 19.07448 (15121808)
490685.95 3859488.59 17.96222 (15121808) 490735.95
3859488.59 16.43713 (15121808)
490785.95 3859488.59 15.10493 (15121808) 490835.95
3859488.59 14.14735 (15121808)
490885.95 3859488.59 13.27889 (20121324) 490085.95
3859538.59 34.41075 (16010405)
490135.95 3859538.59 33.09241 (16010405) 490185.95
3859538.59 31.77814 (16010405)
490235.95 3859538.59 30.42608 (16010405) 490285.95
3859538.59 28.64225 (16010405)
490335.95 3859538.59 27.24176 (15121808) 490385.95
3859538.59 26.02066 (15121808)
490435.95 3859538.59 24.91112 (15121808) 490485.95
3859538.59 23.90135 (15121808)
490535.95 3859538.59 22.95265 (15121808) 490585.95
3859538.59 21.79626 (15121808)
490635.95 3859538.59 20.67459 (15121808) 490685.95
3859538.59 19.48724 (15121808)
490735.95 3859538.59 17.90112 (15121808) 490785.95
3859538.59 16.54888 (15121808)
490835.95 3859538.59 15.27977 (15121808) 490885.95
3859538.59 13.96515 (20121324)
490135.95 3859588.59 33.53741 (16010405) 490185.95
3859588.59 31.94721 (16010405)
490235.95 3859588.59 30.51093 (16010405) 490285.95
3859588.59 29.69885 (15121808)
490335.95 3859588.59 28.31972 (15121808) 490385.95
3859588.59 27.42689 (15121808)
490435.95 3859588.59 26.35903 (15121808) 490485.95
3859588.59 25.31736 (15121808)
490535.95 3859588.59 24.24659 (15121808) 490585.95
3859588.59 23.21081 (15121808)
490635.95 3859588.59 21.80272 (15121808) 490685.95
3859588.59 20.58400 (15121808)
490735.95 3859588.59 18.99374 (15121808) 490785.95
3859588.59 17.38164 (15121808)
490835.95 3859588.59 15.98509 (20121324) 490885.95

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK3   ***
                                   INCLUDING SOURCE(S):   L0000901   , L0000902
, L0000903   , L0000904   , L0000905   ,
                  L0000906   , L0000907   , L0000908   , L0000909   , L0000910
, L0000911   , L0000912   , L0000913   ,
                  L0000914   , L0000915   , L0000916   , L0000917   , L0000918
, L0000919   , L0000920   , L0000921   ,
                  L0000922   , L0000923   , L0000924   , L0000925   , L0000926
, L0000927   , L0000928   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        490235.95   3859638.59   30.94387 (15121808)   490285.95
3859638.59   30.52434 (15121808)
        490335.95   3859638.59   29.31866 (15121808)   490385.95
3859638.59   28.05080 (15121808)
        490435.95   3859638.59   27.29024 (15121808)   490485.95
3859638.59   26.26016 (15121808)
        490535.95   3859638.59   25.25928 (15121808)   490585.95
3859638.59   24.23849 (15121808)
        490635.95   3859638.59   22.79946 (15121808)   490685.95
3859638.59   21.34452 (15121808)
        490735.95   3859638.59   19.72608 (15121808)   490785.95
3859638.59   18.17530 (15121808)
        490835.95   3859638.59   16.97038 (20121324)   490885.95
3859638.59   16.45560 (20121324)
        490135.95   3859688.59   33.62351 (16010405)   490185.95
3859688.59   32.25638 (15121808)
        490235.95   3859688.59   31.54479 (15121808)   490285.95
3859688.59   29.81921 (15121808)

490335.95 3859688.59 29.36345 (15121808) 490385.95
3859688.59 28.94227 (15121808)
490435.95 3859688.59 27.73942 (15121808) 490485.95
3859688.59 26.84168 (15121808)
490535.95 3859688.59 25.75024 (15121808) 490585.95
3859688.59 24.85856 (15121808)
490635.95 3859688.59 23.49529 (15121808) 490685.95
3859688.59 21.93675 (15121808)
490735.95 3859688.59 20.30704 (15121808) 490785.95
3859688.59 18.69090 (15121808)
490835.95 3859688.59 17.75137 (20121324) 490885.95
3859688.59 17.67685 (20121324)
490085.95 3859738.59 34.87453 (16010405) 490135.95
3859738.59 33.55698 (16010405)
490185.95 3859738.59 32.80920 (15121808) 490235.95
3859738.59 32.13189 (15121808)
490285.95 3859738.59 30.77579 (15121808) 490335.95
3859738.59 30.09604 (15121808)
490385.95 3859738.59 28.65764 (15121808) 490435.95
3859738.59 28.07323 (15121808)
490485.95 3859738.59 27.07868 (15121808) 490535.95
3859738.59 26.44905 (15121808)
490585.95 3859738.59 25.27008 (15121808) 490635.95
3859738.59 23.97454 (15121808)
490685.95 3859738.59 22.58963 (15121808) 490735.95
3859738.59 21.16071 (15121808)
490785.95 3859738.59 19.65446 (15121808) 490835.95
3859738.59 18.87809 (20121324)
490885.95 3859738.59 18.45366 (20121324) 490085.95
3859788.59 34.80276 (16010405)
490135.95 3859788.59 33.47315 (16010405) 490185.95
3859788.59 32.87139 (15121808)
490235.95 3859788.59 32.06338 (15121808) 490285.95
3859788.59 31.24345 (15121808)
490335.95 3859788.59 30.31892 (15121808) 490385.95
3859788.59 29.51622 (15121808)
490435.95 3859788.59 28.60237 (15121808) 490485.95
3859788.59 27.81687 (15121808)
490535.95 3859788.59 26.65085 (15121808) 490585.95
3859788.59 25.98403 (15121808)
490635.95 3859788.59 24.36599 (15121808) 490685.95
3859788.59 23.01759 (15121808)
490735.95 3859788.59 21.87654 (15121808) 490785.95
3859788.59 20.25179 (20121324)
490835.95 3859788.59 19.63053 (20121324) 490885.95
3859788.59 18.62448 (20121324)
490085.95 3859838.59 34.84852 (16010405) 490135.95
3859838.59 33.67364 (15121808)
490185.95 3859838.59 32.91157 (15121808) 490235.95
3859838.59 31.90939 (15121808)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3 ***
INCLUDING SOURCE(S): L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,
L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 ,
L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 ,
L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490885.95	3859838.59	19.36071	(20121324)	490085.95	3859888.59	34.89611	(16010405)
490135.95	3859888.59	33.96474	(15121808)	490185.95	3859888.59	32.88464	(15121808)
490235.95	3859888.59	31.99728	(15121808)	490285.95	3859888.59	31.16636	(15121808)
490335.95	3859888.59	30.35661	(15121808)	490385.95	3859888.59	29.61523	(15121808)
490435.95	3859888.59	28.92953	(15121808)	490485.95			

3859888.59 28.20644 (15121808)
490535.95 3859888.59 27.35582 (15121808) 490585.95
3859888.59 26.21585 (15121808)
490635.95 3859888.59 25.04390 (15121808) 490685.95
3859888.59 23.63920 (15121808)
490735.95 3859888.59 21.91621 (15121808) 490785.95
3859888.59 21.18658 (20121324)
490835.95 3859888.59 20.61520 (20121324) 490885.95
3859888.59 19.80598 (20121324)
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3859938.59 33.01908 (15121808)
490235.95 3859938.59 32.03221 (15121808) 490285.95
3859938.59 31.18659 (15121808)
490335.95 3859938.59 30.43389 (15121808) 490385.95
3859938.59 29.70421 (15121808)
490435.95 3859938.59 29.00186 (15121808) 490485.95
3859938.59 28.24767 (15121808)
490535.95 3859938.59 27.35294 (15121808) 490585.95
3859938.59 26.24530 (15121808)
490635.95 3859938.59 24.98805 (15121808) 490685.95
3859938.59 23.18040 (15121808)
490735.95 3859938.59 21.57454 (20121324) 490785.95
3859938.59 21.19559 (20121324)
490835.95 3859938.59 20.77520 (20121324) 490885.95
3859938.59 20.46374 (20121324)
490135.95 3859988.59 34.05043 (15121808) 490185.95
3859988.59 32.95760 (15121808)
490235.95 3859988.59 31.87446 (15121808) 490285.95
3859988.59 31.12302 (15121808)
490335.95 3859988.59 30.41547 (15121808) 490385.95
3859988.59 29.77056 (15121808)
490435.95 3859988.59 29.03865 (15121808) 490485.95
3859988.59 28.21810 (15121808)
490535.95 3859988.59 27.26640 (15121808) 490585.95
3859988.59 26.11012 (15121808)
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3859988.59 22.72167 (15121808)
490735.95 3859988.59 21.76592 (20121324) 490785.95
3859988.59 21.34911 (20121324)
490835.95 3859988.59 20.92658 (20121324) 490885.95
3859988.59 20.46572 (20121324)
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3860038.59 28.14057 (15121808)
490535.95 3860038.59 27.07869 (15121808) 490585.95

3860038.59   25.77251 (15121808)
        490635.95   3860038.59   24.12494 (15121808)   490685.95
3860038.59   22.18972 (15121808)
        490735.95   3860038.59   21.83526 (20121324)   490785.95
3860038.59   21.39378 (20121324)
        490835.95   3860038.59   20.92069 (20121324)   490885.95
3860038.59   20.35276 (20121324)
        490135.95   3860088.59   33.92344 (15121808)   490185.95
3860088.59   32.81172 (15121808)
        490235.95   3860088.59   32.04966 (15121808)   490285.95
3860088.59   31.31135 (15121808)
        490335.95   3860088.59   30.61419 (15121808)   490385.95
3860088.59   29.86045 (15121808)
        490435.95   3860088.59   29.01387 (15121808)   490485.95
3860088.59   27.99814 (15121808)
        490535.95   3860088.59   26.79316 (15121808)   490585.95
3860088.59   25.31274 (15121808)
        490635.95   3860088.59   23.45621 (15121808)   490685.95
3860088.59   22.05967 (20121324)
        490735.95   3860088.59   21.69537 (20121324)   490785.95
3860088.59   21.30349 (20121324)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3   ***
                                    INCLUDING SOURCE(S):   L0000901   , L0000902 , L0000903   , L0000904   , L0000905   ,
                  L0000906   , L0000907   , L0000908   , L0000909   , L0000910 , L0000911   , L0000912   , L0000913   ,
                  L0000914   , L0000915   , L0000916   , L0000917   , L0000918 , L0000919   , L0000920   , L0000921   ,
                  L0000922   , L0000923   , L0000924   , L0000925   , L0000926 , L0000927   , L0000928   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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        490835.95   3860088.59       20.76591  (20121324)               490885.95
3860088.59       20.10336  (20121324)
        490135.95   3860138.59       34.06002  (15121808)               490185.95
3860138.59       32.99236  (15121808)
        490235.95   3860138.59       32.21584  (15121808)               490285.95
3860138.59       31.43852  (15121808)
        490335.95   3860138.59       30.67745  (15121808)               490385.95
3860138.59       29.87575  (15121808)
        490435.95   3860138.59       28.93940  (15121808)               490485.95
3860138.59       27.80759  (15121808)
        490535.95   3860138.59       26.44991  (15121808)               490585.95
3860138.59       24.75018  (15121808)
        490635.95   3860138.59       22.68319  (15121808)               490685.95
3860138.59       21.88649  (20121324)
        490735.95   3860138.59       21.42532  (20121324)               490785.95
3860138.59       21.04418  (20121324)
        490835.95   3860138.59       20.44439  (20121324)               490885.95
3860138.59       19.72981  (15013024)
        490935.95   3860138.59       19.26855  (15013024)               490985.95
3860138.59       18.92570  (15013024)
        491035.95   3860138.59       18.61940  (15013024)               490135.95
3860188.59       34.15541  (15121808)
        490185.95   3860188.59       33.12812  (15121808)               490235.95
3860188.59       32.32677  (15121808)
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3860188.59       30.74648  (15121808)
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        490485.95   3860188.59       27.54969  (15121808)               490535.95
3860188.59       25.98884  (15121808)
        490585.95   3860188.59       24.11963  (15121808)               490635.95
3860188.59       22.34420  (20121324)
        490685.95   3860188.59       21.85385  (20121324)               490735.95
3860188.59       21.20585  (20121324)
        490785.95   3860188.59       20.66200  (20121324)               490835.95
3860188.59       20.04671  (15013024)
        490885.95   3860188.59       19.56164  (15013024)               490935.95
3860188.59       19.07719  (15013024)
        490985.95   3860188.59       18.71785  (15013024)               491035.95
3860188.59       18.29385  (15013024)
        491085.95   3860188.59       17.87203  (15013024)               491135.95
3860188.59       17.56743  (15013024)
        490135.95   3860238.59       34.31105  (15121808)               490185.95
3860238.59       33.29550  (15121808)
        490235.95   3860238.59       32.44725  (15121808)               490285.95
3860238.59       31.62946  (15121808)
        490335.95   3860238.59       30.77065  (15121808)               490385.95
3860238.59       29.80669  (15121808)
        490435.95   3860238.59       28.66399  (15121808)               490485.95
3860238.59       27.22768  (15121808)
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        490535.95   3860238.59       25.46830  (15121808)                490585.95
3860238.59       23.34031  (15121808)
        490635.95   3860238.59       22.33383  (20121324)                490685.95
3860238.59       21.77017  (20121324)
        490735.95   3860238.59       21.13399  (20121324)                490785.95
3860238.59       20.40925  (20121324)
        490835.95   3860238.59       19.89259  (15013024)                490885.95
3860238.59       19.48070  (15013024)
        490935.95   3860238.59       19.07244  (15013024)                490985.95
3860238.59       18.87630  (15013024)
        491035.95   3860238.59       18.39400  (15013024)                491085.95
3860238.59       17.92083  (15013024)
        491135.95   3860238.59       17.07222  (15013024)                490135.95
3860288.59       34.44002  (15121808)
        490185.95   3860288.59       33.46537  (15121808)                490235.95
3860288.59       32.54785  (15121808)
        490285.95   3860288.59       31.69430  (15121808)                490335.95
3860288.59       30.76708  (15121808)
        490385.95   3860288.59       29.70620  (15121808)                490435.95
3860288.59       28.42232  (15121808)
        490485.95   3860288.59       26.82347  (15121808)                490535.95
3860288.59       24.81678  (15121808)
        490585.95   3860288.59       22.79817  (20121324)                490635.95
3860288.59       22.21474  (20121324)
        490685.95   3860288.59       21.64077  (20121324)                490735.95
3860288.59       20.96719  (20121324)
        490785.95   3860288.59       20.35747  (15013024)                490835.95
3860288.59       19.89754  (15013024)
        490885.95   3860288.59       19.50719  (15013024)                490935.95
3860288.59       19.03927  (15013024)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 779
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK3   ***
                                   INCLUDING SOURCE(S):     L0000901    , L0000902
, L0000903    , L0000904    , L0000905    ,
                L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
                L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
490985.95	3860288.59	18.75761	(15013024)	491035.95	3860288.59	18.28205	(15013024)
491085.95	3860288.59	17.89796	(15013024)	490135.95	3860338.59	34.56650	(15121808)
490185.95	3860338.59	33.58923	(15121808)	490235.95	3860338.59	32.64248	(15121808)
490285.95	3860338.59	31.73015	(15121808)	490335.95	3860338.59	30.72169	(15121808)
490385.95	3860338.59	29.54190	(15121808)	490435.95	3860338.59	28.09467	(15121808)
490485.95	3860338.59	26.28294	(15121808)	490535.95	3860338.59	24.09769	(15121808)
490585.95	3860338.59	22.80915	(20121324)	490635.95	3860338.59	22.16088	(20121324)
490685.95	3860338.59	21.49642	(20121324)	490735.95	3860338.59	20.75525	(15013024)
490785.95	3860338.59	20.42025	(15013024)	490835.95	3860338.59	19.93960	(15013024)
490885.95	3860338.59	19.49687	(15013024)	490935.95	3860338.59	19.01604	(15013024)
490985.95	3860338.59	18.65426	(15013024)	491035.95	3860338.59	17.82986	(15013024)
491085.95	3860338.59	16.84251	(18011120)	490135.95	3860388.59	34.69140	(15121808)
490185.95	3860388.59	33.70330	(15121808)	490235.95	3860388.59	32.73276	(15121808)
490285.95	3860388.59	31.73680	(15121808)	490335.95	3860388.59	30.62692	(15121808)
490385.95	3860388.59	29.30001	(15121808)	490435.95	3860388.59	27.66519	(15121808)
490485.95	3860388.59	25.66232	(15121808)	490535.95	3860388.59	23.47483	(20121324)
490585.95	3860388.59	22.82950	(20121324)	490635.95	3860388.59	22.09888	(20121324)
490685.95	3860388.59	21.39481	(20121324)	490735.95	3860388.59	20.74571	(15013024)
490785.95	3860388.59	20.30182	(15013024)	490835.95	3860388.59	19.91947	(15013024)
490135.95	3860438.59	34.80818	(15121808)	490185.95	3860438.59	33.78500	(15121808)
490235.95	3860438.59	32.77176	(15121808)	490285.95			

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3860438.59       31.69492  (15121808)
        490335.95   3860438.59       30.45339  (15121808)                490385.95
3860438.59       28.97009  (15121808)
        490435.95   3860438.59       27.12666  (15121808)                490485.95
3860438.59       24.85733  (15121808)
        490535.95   3860438.59       23.42389  (20121324)                490585.95
3860438.59       22.71821  (20121324)
        490635.95   3860438.59       21.95183  (20121324)                490685.95
3860438.59       21.22051  (15013024)
        490735.95   3860438.59       20.79071  (15013024)                490785.95
3860438.59       20.32267  (15013024)
        490835.95   3860438.59       19.95940  (15013024)                490135.95
3860488.59       34.89534  (15121808)
        490185.95   3860488.59       33.84543  (15121808)                490235.95
3860488.59       32.76443  (15121808)
        490285.95   3860488.59       31.59972  (15121808)                490335.95
3860488.59       30.21387  (15121808)
        490385.95   3860488.59       28.55107  (15121808)                490435.95
3860488.59       26.54376  (15121808)
        490485.95   3860488.59       24.10676  (20121324)                490535.95
3860488.59       23.34930  (20121324)
        490585.95   3860488.59       22.56524  (20121324)                490635.95
3860488.59       21.80094  (20121324)
        490685.95   3860488.59       21.17930  (15013024)                490735.95
3860488.59       20.72892  (15013024)
        490785.95   3860488.59       20.27836  (15013024)                490135.95
3860538.59       34.97595  (15121808)
        490185.95   3860538.59       33.88482  (15121808)                490235.95
3860538.59       32.72277  (15121808)
        490285.95   3860538.59       31.42095  (15121808)                490335.95
3860538.59       29.90147  (15121808)
        490385.95   3860538.59       28.06687  (15121808)                490435.95
3860538.59       25.77504  (15121808)
        490485.95   3860538.59       24.18409  (20121324)                490535.95
3860538.59       23.71332  (20121324)
        490585.95   3860538.59       22.54526  (20121324)                490635.95
3860538.59       21.72346  (15013024)
        490685.95   3860538.59       21.23263  (15013024)                490735.95
3860538.59       20.70249  (15013024)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 780
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCK3   ***
                                  INCLUDING SOURCE(S):     L0000901    , L0000902
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, L0000903    , L0000904    , L0000905    ,
                L0000906    , L0000907    , L0000908    , L0000909    , L0000910
, L0000911    , L0000912    , L0000913    ,
                L0000914    , L0000915    , L0000916    , L0000917    , L0000918
, L0000919    , L0000920    , L0000921    ,
                L0000922    , L0000923    , L0000924    , L0000925    , L0000926
, L0000927    , L0000928    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        490785.95   3860538.59       20.37911  (15013024)               490135.95
3860588.59       34.98440  (15121808)
        490185.95   3860588.59       33.67088  (15121808)               490235.95
3860588.59       32.55643  (15121808)
        490285.95   3860588.59       31.18928  (15121808)               490335.95
3860588.59       29.46139  (15121808)
        490385.95   3860588.59       27.32383  (15121808)               490435.95
3860588.59       24.98599  (20121324)
        490485.95   3860588.59       24.47318  (20121324)               490535.95
3860588.59       23.66281  (20121324)
        490585.95   3860588.59       22.25900  (20121324)               490635.95
3860588.59       21.77083  (19120108)
        490685.95   3860588.59       21.39911  (19120108)               490735.95
3860588.59       20.89471  (19120108)
        490785.95   3860588.59       20.11505  (15020404)               490135.95
3860638.59       34.98713  (15121808)
        490185.95   3860638.59       33.88866  (15121808)               490235.95
3860638.59       32.41092  (15121808)
        490285.95   3860638.59       30.77296  (15121808)               490335.95
3860638.59       28.89368  (15121808)
        490385.95   3860638.59       26.52253  (15121808)               490435.95
3860638.59       24.51237  (20121324)
        490485.95   3860638.59       23.79884  (20121324)               490535.95
3860638.59       23.22830  (19120108)
        490585.95   3860638.59       22.96389  (19120108)               490635.95
3860638.59       22.62158  (19120108)
        490685.95   3860638.59       22.19148  (19120108)               490735.95
3860638.59       20.79489  (19120108)
        490785.95   3860638.59       20.59287  (19120108)               490135.95
3860688.59       35.10025  (15121808)
        490185.95   3860688.59       33.71126  (15121808)               490235.95
3860688.59       32.38341  (15121808)
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        490285.95   3860688.59       30.22567  (15121808)                490335.95
3860688.59       28.17393  (15121808)
        490385.95   3860688.59       25.59466  (15121808)                490435.95
3860688.59       24.53053  (19120108)
        490485.95   3860688.59       23.86979  (19120108)                490535.95
3860688.59       23.56373  (19120108)
        490585.95   3860688.59       23.22878  (19120108)                490635.95
3860688.59       22.87578  (19120108)
        490685.95   3860688.59       22.64982  (19120108)                490735.95
3860688.59       22.22348  (19120108)
        490785.95   3860688.59       22.12383  (19120108)                490135.95
3860738.59       34.91002  (15121808)
        490185.95   3860738.59       33.33255  (15121808)                490235.95
3860738.59       31.64271  (15121808)
        490285.95   3860738.59       29.67441  (15121808)                490335.95
3860738.59       27.26635  (15121808)
        490385.95   3860738.59       25.47858  (19120108)                490435.95
3860738.59       24.85098  (19120108)
        490485.95   3860738.59       24.39353  (19120108)                490535.95
3860738.59       22.74641  (19120108)
        490585.95   3860738.59       22.24651  (19120108)                490635.95
3860738.59       22.14673  (19120108)
        490685.95   3860738.59       22.55857  (19120108)                490735.95
3860738.59       22.66806  (19120108)
        490785.95   3860738.59       22.32143  (19120108)                490135.95
3860788.59       34.63477  (15121808)
        490185.95   3860788.59       33.27228  (15121808)                490235.95
3860788.59       31.43572  (15121808)
        490285.95   3860788.59       29.10249  (15121808)                490335.95
3860788.59       26.47488  (15121808)
        490385.95   3860788.59       25.21199  (19120108)                490435.95
3860788.59       24.97910  (19120108)
        490485.95   3860788.59       24.79796  (19120108)                490535.95
3860788.59       24.20084  (19120108)
        490585.95   3860788.59       22.21029  (19120108)                490635.95
3860788.59       22.34585  (19120108)
        490685.95   3860788.59       22.33348  (19120108)                490735.95
3860788.59       22.42933  (19120108)
        490785.95   3860788.59       22.28301  (19120108)                489985.95
3860838.59       34.37256  (15121808)
        490035.95   3860838.59       32.85527  (15121808)                490085.95
3860838.59       32.50427  (15121808)
        490135.95   3860838.59       33.08789  (15121808)                490185.95
3860838.59       31.25741  (15121808)
        490235.95   3860838.59       29.57088  (15121808)                490285.95
3860838.59       27.85266  (15121808)
        490335.95   3860838.59       24.86552  (15121808)                490385.95
3860838.59       23.43701  (19120108)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3   ***
                                INCLUDING SOURCE(S):   L0000901   , L0000902 , L0000903   , L0000904   , L0000905   ,
                  L0000906   , L0000907   , L0000908   , L0000909   , L0000910 , L0000911   , L0000912   , L0000913   ,
                  L0000914   , L0000915   , L0000916   , L0000917   , L0000918 , L0000919   , L0000920   , L0000921   ,
                  L0000922   , L0000923   , L0000924   , L0000925   , L0000926 , L0000927   , L0000928   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

3860888.59 24.34189 (19120108)
490585.95 3860888.59 23.56941 (19120108) 490635.95
3860888.59 22.40890 (19120108)
490685.95 3860888.59 21.69154 (19120108) 490735.95
3860888.59 20.95940 (19120108)
490785.95 3860888.59 20.04996 (19120108) 490835.95
3860888.59 19.44997 (19120108)
490885.95 3860888.59 18.95157 (19120108) 490935.95
3860888.59 18.40446 (19120108)
489835.95 3860938.59 40.98571 (15121808) 489885.95
3860938.59 38.98895 (15121808)
489935.95 3860938.59 37.04400 (15121808) 489985.95
3860938.59 35.18405 (15121808)
490035.95 3860938.59 33.32775 (15121808) 490085.95
3860938.59 31.41526 (15121808)
490135.95 3860938.59 29.39355 (15121808) 490185.95
3860938.59 27.14455 (15121808)
490235.95 3860938.59 26.03214 (19120108) 490285.95
3860938.59 25.61097 (19120108)
490335.95 3860938.59 25.47865 (19120108) 490385.95
3860938.59 25.33397 (19120108)
490435.95 3860938.59 25.43642 (19120108) 490485.95
3860938.59 24.83306 (19120108)
490535.95 3860938.59 24.08339 (19120108) 490585.95
3860938.59 22.91069 (19120108)
490635.95 3860938.59 22.05634 (19120108) 490685.95
3860938.59 21.04756 (19120108)
490735.95 3860938.59 20.04836 (19120108) 490785.95
3860938.59 19.61311 (19120108)
490835.95 3860938.59 19.18940 (19120108) 490885.95
3860938.59 18.68309 (19120108)
490935.95 3860938.59 18.28528 (19120108) 489835.95
3860988.59 41.19527 (15121808)
489885.95 3860988.59 39.09613 (15121808) 489935.95
3860988.59 37.10856 (15121808)
489985.95 3860988.59 35.18013 (15121808) 490035.95
3860988.59 33.24477 (15121808)
490085.95 3860988.59 31.19752 (15121808) 490135.95
3860988.59 29.01575 (15121808)
490185.95 3860988.59 27.18729 (19120108) 490235.95
3860988.59 26.74707 (19120108)
490285.95 3860988.59 26.42509 (19120108) 490335.95
3860988.59 26.07475 (19120108)
490385.95 3860988.59 25.61310 (19120108) 490435.95
3860988.59 25.45228 (19120108)
490485.95 3860988.59 24.38844 (19120108) 490535.95
3860988.59 23.31549 (19120108)
490585.95 3860988.59 22.17246 (19120108) 490635.95
3860988.59 21.41215 (19120108)
490685.95 3860988.59 20.55482 (19120108) 490735.95

3860988.59   20.10100 (19120108)
        490785.95   3860988.59   19.65817 (19120108)   490835.95
3860988.59   19.23055 (19120108)
        490885.95   3860988.59   18.81815 (19120108)   490935.95
3860988.59   18.43594 (19120108)
        489835.95   3861038.59   41.36156 (15121808)   489885.95
3861038.59   39.17836 (15121808)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCK3   ***
                                    INCLUDING SOURCE(S):   L0000901   , L0000902 , L0000903   , L0000904   , L0000905   ,
                  L0000906   , L0000907   , L0000908   , L0000909   , L0000910 , L0000911   , L0000912   , L0000913   ,
                  L0000914   , L0000915   , L0000916   , L0000917   , L0000918 , L0000919   , L0000920   , L0000921   ,
                  L0000922   , L0000923   , L0000924   , L0000925   , L0000926 , L0000927   , L0000928   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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        490635.95   3861038.59       21.09545  (19120108)                490685.95
3861038.59       20.60973  (19120108)
        490735.95   3861038.59       20.14289  (19120108)                490785.95
3861038.59       19.69358  (19120108)
        490835.95   3861038.59       19.26448  (19120108)                490885.95
3861038.59       18.85555  (19120108)
        490935.95   3861038.59       18.46559  (19120108)                489835.95
3861088.59       41.49691  (15121808)
        489885.95   3861088.59       39.27424  (15121808)                489935.95
3861088.59       37.15768  (15121808)
        489985.95   3861088.59       35.10090  (15121808)                490035.95
3861088.59       32.93414  (15121808)
        490085.95   3861088.59       30.59422  (15121808)                490135.95
3861088.59       29.13543  (19120108)
        490185.95   3861088.59       29.03036  (19120108)                490235.95
3861088.59       27.80310  (19120108)
        490285.95   3861088.59       26.87125  (19120108)                490335.95
3861088.59       24.82038  (19120108)
        490385.95   3861088.59       24.08290  (19120108)                490435.95
3861088.59       23.41491  (19120108)
        490485.95   3861088.59       22.79003  (19120108)                490535.95
3861088.59       22.22897  (19120108)
        490585.95   3861088.59       21.65531  (19120108)                490635.95
3861088.59       21.14778  (19120108)
        490685.95   3861088.59       20.65110  (19120108)                490735.95
3861088.59       20.17274  (19120108)
        490785.95   3861088.59       19.71561  (19120108)                490835.95
3861088.59       19.27956  (19120108)
        490885.95   3861088.59       18.86449  (19120108)                490935.95
3861088.59       18.47273  (19120108)
        489020.79   3862564.85       94.96612  (16012217)                489043.15
3862350.21      107.46227  (16012217)
        489072.96   3862287.60      123.70952  (18122220)                488980.55
3862078.92       86.85050  (16012217)
        489037.19   3862822.72       97.42494  (16010502)                489120.66
3863016.49      166.15613  (16122819)
        489037.19   3863350.37      100.21403  (16020222)

 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 783
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
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                 L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                 L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                 L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489237.26              489256.56              489275.86
      489295.16              489314.46
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -

 3859957.1 |   1697.63839 (16012217)   1733.61992 (20122517)   1750.74974 (18122220)
  1798.75803 (18010221)   1821.74021 (18010221)
 3859937.6 |   1652.99741 (16012217)   1681.86138 (20122517)   1706.56132 (18122220)
  1760.21569 (18010221)   1777.34875 (18010221)
 3859918.2 |   1606.11278 (16012217)   1641.48097 (18122220)   1659.56673 (18122220)
  1715.53244 (18010221)   1730.89978 (18010221)
 3859898.8 |   1561.66381 (16012217)   1593.03758 (18122220)   1616.20605 (18010221)
  1682.43446 (18010221)   1689.64930 (18010221)
 3859879.4 |   1515.40619 (16012217)   1546.76030 (18122220)   1568.83699 (18010221)
  1621.28014 (18010221)   1640.74029 (18010221)
 3859860.0 |   1481.38022 (18122220)   1505.47994 (18122220)   1538.85135 (18010221)
  1583.72112 (18010221)   1596.80685 (18010221)
 3859840.5 |   1453.35285 (18122220)   1468.18489 (18122220)   1511.30844 (18010221)
  1554.06231 (18010221)   1553.98000 (18010221)
 3859821.1 |   1425.58421 (18122220)   1437.53494 (18122220)   1494.87987 (18010221)
  1528.88343 (18010221)   1514.87805 (18010221)
 3859801.7 |   1393.83024 (18122220)   1410.83285 (18122220)   1467.26843 (18010221)
  1497.40047 (18010221)   1473.87196 (18010221)
 3859782.3 |   1364.57941 (18122220)   1388.11744 (18010221)   1439.70285 (18010221)
  1462.77615 (18010221)   1439.98193 (19011424)
 3859762.9 |   1334.55458 (18122220)   1368.66839 (18010221)   1418.90519 (18010221)
  1428.43870 (18010221)   1408.47509 (19011424)
 3859743.4 |   1304.04933 (18122220)   1348.79813 (18010221)   1396.72559 (18010221)
  1394.58912 (18010221)   1378.06110 (19011424)
 3859724.0 |   1280.02110 (18122220)   1328.54772 (18010221)   1368.57711 (18010221)
  1361.20191 (18010221)   1348.42836 (19011424)
 3859704.6 |   1256.60273 (18122220)   1323.12813 (18010221)   1340.53919 (18010221)
  1328.24900 (18010221)   1319.01695 (19011424)
 3859685.2 |   1241.56730 (18010221)   1301.49412 (18010221)   1307.85453 (18010221)
  1294.06735 (19011424)   1289.17819 (19011424)
 3859665.8 |   1227.46200 (18010221)   1273.25152 (18010221)   1275.61106 (18010221)
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489333.76	489353.06	489372.36	489391.66	489410.96
3859957.1	1842.20181 (20022718)	1940.53430 (20040918)	1988.41710 (20040918)	1976.21042 (20040918)	1933.24162 (20040918)
3859937.6	1793.87405 (20022718)	1891.29117 (20040918)	1952.22984 (20040918)	1953.29860 (20040918)	1919.20650 (20040918)
3859918.2	1743.96580 (20022718)	1843.98812 (20040918)	1904.69209 (20040918)	1906.91822 (20040918)	1869.99234 (20040918)
3859898.8	1698.30420 (20040918)	1803.87062 (20040918)	1858.01768 (20040918)	1874.61555 (20040918)	1842.31961 (20040918)

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 3859879.4 |   1630.71617 (20040918)   1761.48460 (20040918)   1815.38873 (20040918)
  1831.77492 (20040918)   1816.13215 (20040918)
 3859860.0 |   1594.28327 (20040918)   1721.11616 (20040918)   1775.33421 (20040918)
  1790.25286 (20040918)   1770.91267 (20040918)
 3859840.5 |   1559.83886 (20040918)   1681.80821 (20040918)   1733.08817 (20040918)
  1747.50987 (20040918)   1730.77141 (20040918)
 3859821.1 |   1556.52110 (20040918)   1643.96414 (20040918)   1695.01248 (20040918)
  1707.79327 (20040918)   1688.88837 (20040918)
 3859801.7 |   1496.16103 (20040918)   1608.48631 (20040918)   1655.94552 (20040918)
  1666.42996 (20040918)   1644.11269 (20040918)
 3859782.3 |   1466.60926 (20040918)   1574.59972 (20040918)   1619.77871 (20040918)
  1628.95668 (20040918)   1603.07644 (20040918)
 3859762.9 |   1465.97229 (20040918)   1543.41438 (20040918)   1589.03453 (20040918)
  1599.39155 (20040918)   1575.83233 (20040918)
 3859743.4 |   1438.06045 (20040918)   1511.35762 (20040918)   1556.37372 (20040918)
  1567.31102 (20040918)   1543.65994 (20040918)
 3859724.0 |   1410.73032 (20040918)   1485.40566 (20040918)   1525.42850 (20040918)
  1532.58682 (20040918)   1510.18345 (20040918)
 3859704.6 |   1387.11888 (20040918)   1454.28191 (20040918)   1491.46542 (20040918)
  1500.81729 (20040918)   1474.59964 (20040918)
 3859685.2 |   1361.76949 (20040918)   1426.88789 (20040918)   1465.58390 (20040918)
  1470.30980 (20040918)   1444.05932 (20040918)
 3859665.8 |   1338.21852 (20040918)   1400.48299 (20040918)   1439.05685 (20040918)
  1443.93835 (20040918)   1417.76972 (20040918)
 3859646.4 |   1317.04695 (20040918)   1378.44761 (20040918)   1411.83888 (20040918)
  1415.60712 (20040918)   1391.83314 (20040918)
 3859626.9 |   1297.81388 (20040918)   1353.81096 (20040918)   1385.51050 (20040918)
  1389.86616 (20040918)   1365.86529 (20040918)
 3859607.5 |   1278.44454 (20040918)   1332.05260 (20040918)   1359.84590 (20040918)
  1365.23136 (20040918)   1338.84725 (20040918)
 3859588.1 |   1259.46869 (20040918)   1312.30366 (20040918)   1340.59008 (20040918)
  1342.34790 (20040918)   1313.10369 (20040918)
 3859568.7 |   1246.66094 (20040918)   1295.60767 (20040918)   1320.23810 (20040918)
  1320.04692 (20040918)   1289.66525 (20040918)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 785
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
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L0000170 , L0000171 , L0000172 , L0000173 , L0000174
, L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	489430.26	489449.56	489468.86	489488.16	489507.46
3859957.1	1894.92596 (15120819)	1871.32872 (15120819)	1829.58983 (15120819)	1717.31852 (15120819)	1600.50166 (15120819)
3859937.6	1878.03958 (15120819)	1871.85286 (15120819)	1847.28666 (15120819)	1777.52020 (15120819)	1677.89741 (15120819)
3859918.2	1820.28558 (15120819)	1826.24030 (15120819)	1813.80999 (15120819)	1766.64273 (15120819)	1676.87734 (15120819)
3859898.8	1794.31559 (15120819)	1796.64652 (15120819)	1774.61199 (15120819)	1732.73302 (15120819)	1657.80254 (18120603)
3859879.4	1778.33290 (15120819)	1771.21242 (15120819)	1737.45805 (15120819)	1698.48401 (15120819)	1653.38592 (18120603)
3859860.0	1735.01271 (15120819)	1752.73765 (15120819)	1735.65963 (15120819)	1689.52071 (15120819)	1648.22354 (18120603)
3859840.5	1686.74521 (15120819)	1715.39780 (15120819)	1709.34725 (15120819)	1663.93945 (15120819)	1621.84335 (18120603)
3859821.1	1645.78702 (15120819)	1676.36497 (15120819)	1672.04644 (15120819)	1631.74297 (15120819)	1583.50241 (18120603)
3859801.7	1605.21778 (15120819)	1632.04640 (15120819)	1633.78210 (15120819)	1600.75140 (15120819)	1554.79223 (18120603)
3859782.3	1563.67161 (15120819)	1592.98909 (15120819)	1593.92841 (15120819)	1567.40008 (15120819)	1522.83757 (18120603)
3859762.9	1530.46401 (15120819)	1553.27632 (15120819)	1554.93602 (15120819)	1534.07895 (15120819)	1474.24749 (18120603)
3859743.4	1495.19759 (16020819)	1519.12916 (15120819)	1522.78958 (15120819)	1504.67064 (15120819)	1446.88942 (15120819)
3859724.0	1467.23840 (16020819)	1486.61154 (15120819)	1493.99735 (15120819)	1476.35084 (15120819)	1422.71948 (15120819)
3859704.6	1440.04028 (16020819)	1454.91944 (15120819)	1461.79224 (15120819)	1448.98728 (15120819)	1399.65540 (15120819)
3859685.2	1413.75833 (16020819)	1428.40937 (15120819)	1435.08960 (15120819)	1422.51626 (15120819)	1374.77615 (15120819)
3859665.8	1387.04792 (16020819)	1401.00423 (15120819)	1407.45282 (15120819)	1396.88195 (15120819)	1353.00982 (15120819)
3859646.4	1363.63502 (16020819)	1372.55175 (15120819)	1382.44089 (15120819)	1372.48138 (15120819)	1331.16623 (15120819)
3859626.9	1340.66100 (16020819)	1347.08642 (15120819)	1358.33207 (15120819)		

 1347.93275 (15120819)   1308.27833 (15120819)
3859607.5 | 1318.62049 (16020819)   1322.33870 (15120819)   1330.87295 (15120819)
 1318.07674 (15120819)   1279.98482 (15120819)
3859588.1 | 1295.01046 (16020819)   1302.95096 (15120819)   1315.30414 (15120819)
 1302.40109 (15120819)   1264.26271 (15120819)
3859568.7 | 1273.81779 (16020819)   1283.58217 (15120819)   1296.66910 (15120819)
 1285.24307 (15120819)   1249.79453 (15120819)
↟ *** AERMOD - VERSION 23132 ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054 Lennwood\Lennwood\Lennwo ***   07/17/24
 *** AERMET - VERSION 19191 ***   ***   ***   01:16:45

                                   PAGE 786
 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                                L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                                L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                                L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   , L0000176   , . . .   ,

                                    *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489526.76   489546.06   489565.36
      489584.66   489603.96
 - - -

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 3859840.5 |   1637.84089 (18120603)   1620.03244 (18120603)   1567.03790 (20030523)
  1551.21660 (15112019)   1514.38462 (15112019)
 3859821.1 |   1604.33298 (18120603)   1595.68949 (18120603)   1548.44244 (18120603)
  1519.02659 (20030523)   1508.27269 (15112019)
 3859801.7 |   1577.93835 (18120603)   1570.55839 (18120603)   1532.59193 (18120603)
  1502.16188 (20030523)   1488.72737 (15112019)
 3859782.3 |   1549.20535 (18120603)   1545.81388 (18120603)   1514.54043 (18120603)
  1481.92773 (20030523)   1464.33473 (15112019)
 3859762.9 |   1519.75810 (18120603)   1522.73660 (18120603)   1496.58835 (18120603)
  1456.17189 (20030523)   1436.54943 (15112019)
 3859743.4 |   1491.57391 (18120603)   1497.61331 (18120603)   1475.94887 (18120603)
  1429.67684 (20030523)   1409.22612 (15112019)
 3859724.0 |   1462.04293 (18120603)   1473.04426 (18120603)   1454.73083 (18120603)
  1407.70907 (18120603)   1390.56928 (20030523)
 3859704.6 |   1432.53515 (18120603)   1446.45230 (18120603)   1434.95557 (18120603)
  1394.29152 (18120603)   1371.41109 (20030523)
 3859685.2 |   1401.58154 (18120603)   1421.90746 (18120603)   1415.38572 (18120603)
  1380.58750 (18120603)   1350.01236 (20030523)
 3859665.8 |   1370.25464 (18120603)   1394.95567 (18120603)   1393.51319 (18120603)
  1364.66146 (18120603)   1327.76943 (20030523)
 3859646.4 |   1340.35770 (18120603)   1370.00681 (18120603)   1371.48343 (18120603)
  1348.29889 (18120603)   1304.76730 (20030523)
 3859626.9 |   1309.55375 (18120603)   1344.95107 (18120603)   1352.90006 (18120603)
  1332.82485 (18120603)   1285.13031 (18120603)
 3859607.5 |   1279.63552 (18120603)   1318.42335 (18120603)   1330.51182 (18120603)
  1317.34976 (18120603)   1273.21657 (18120603)
 3859588.1 |   1247.77505 (18120603)   1291.35506 (18120603)   1309.16013 (18120603)
  1300.50283 (18120603)   1261.28151 (18120603)
 3859568.7 |   1210.64556 (18120603)   1258.56064 (18120603)   1284.04625 (18120603)
  1281.63043 (18120603)   1248.80762 (18120603)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 787
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
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GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489623.26
 -
- -

 3859957.1 | 1087.54566 (16112920)
 3859937.6 | 1288.07821 (16010405)
 3859918.2 | 1368.99022 (16010405)
 3859898.8 | 1468.78222 (16010405)
 3859879.4 | 1508.36859 (16010405)
 3859860.0 | 1516.40966 (16010405)
 3859840.5 | 1512.48994 (16010405)
 3859821.1 | 1493.15127 (16010405)
 3859801.7 | 1465.16015 (16010405)
 3859782.3 | 1441.99491 (15112019)
 3859762.9 | 1428.29851 (15112019)
 3859743.4 | 1410.55174 (15112019)
 3859724.0 | 1388.51250 (15112019)
 3859704.6 | 1365.52555 (15112019)
 3859685.2 | 1341.55951 (15112019)
 3859665.8 | 1314.90110 (15112019)
 3859646.4 | 1292.95386 (20030523)
 3859626.9 | 1274.63749 (20030523)
 3859607.5 | 1257.11200 (20030523)
 3859588.1 | 1236.83717 (20030523)
 3859568.7 | 1216.43228 (20030523)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000149   , L0000150
, L0000151   , L0000152   , L0000153   ,
                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158
, L0000159   , L0000160   , L0000161   ,
                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166
, L0000167   , L0000168   , L0000169   ,
                  L0000170   , L0000171   , L0000172   , L0000173   , L0000174
, L0000175   , L0000176   , . . .   ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	489260.34	489284.99	489309.64	489334.29	489358.94
3859173.4	876.89009 (20022718)	906.04681 (20040918)	956.10159 (20040918)	989.06772 (20040918)	998.99547 (20040918)
3859151.9	862.74189 (20022718)	898.27061 (20040918)	945.43526 (20040918)	976.36358 (20040918)	985.13578 (20040918)
3859130.3	847.26156 (20022718)	890.77593 (20040918)	935.18307 (20040918)	964.68342 (20040918)	973.25632 (20040918)
3859108.7	838.31981 (20040918)	883.11581 (20040918)	925.52261 (20040918)	954.75095 (20040918)	960.73341 (20040918)
3859087.1	833.29770 (20040918)	875.65812 (20040918)	915.93778 (20040918)	943.66185 (20040918)	949.66904 (20040918)
3859065.6	828.23931 (20040918)	868.40657 (20040918)	907.69748 (20040918)	934.00934 (20040918)	936.81861 (20040918)
3859044.0	823.70017 (20040918)	862.21607 (20040918)	898.67116 (20040918)	922.72050 (20040918)	927.18250 (20040918)
3859022.4	818.71841 (20040918)	854.97407 (20040918)	890.82639 (20040918)	913.83866 (20040918)	914.92086 (20040918)
3859000.9	813.74637 (20040918)	848.67782 (20040918)	881.68220 (20040918)	903.31883 (20040918)	905.31325 (20040918)
3858979.3	809.09146 (20040918)	842.69688 (20040918)	874.33256 (20040918)	892.74389 (20040918)	893.86097 (20040918)
3858957.7	804.48305 (20040918)	835.96013 (20040918)	865.74581 (20040918)	882.35564 (20040918)	882.36532 (20040918)
3858936.1	799.60158 (20040918)	829.13560 (20040918)	858.54738 (20040918)	874.45020 (20040918)	873.39795 (20040918)
3858914.6	795.20202 (20040918)	823.36570 (20040918)	851.16444 (20040918)	866.30203 (20040918)	862.70085 (20040918)
3858893.0	790.56386 (20040918)	817.38867 (20040918)	843.55406 (20040918)	857.31436 (20040918)	851.94060 (20040918)
3858871.4	786.05725 (20040918)	811.09876 (20040918)	836.58196 (20040918)	849.42934 (20040918)	844.82432 (20040918)
3858849.9	781.53814 (20040918)	804.88073 (20040918)	828.73134 (20040918)	840.51355 (20040918)	834.86241 (20040918)
3858828.3	777.21361 (20040918)	798.74750 (20040918)	821.15108 (20040918)	831.40427 (20040918)	824.86905 (20040918)
3858806.7	772.76349 (20040918)	793.28166 (20040918)	813.68965 (20040918)	822.73291 (20040918)	816.36886 (20040918)
3858785.2	768.34389 (20040918)	787.35288 (20040918)	806.25578 (20040918)	814.02267 (20040918)	806.77743 (20040918)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000149   , L0000150
, L0000151   , L0000152   , L0000153   ,
                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158
, L0000159   , L0000160   , L0000161   ,
                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166
, L0000167   , L0000168   , L0000169   ,
                  L0000170   , L0000171   , L0000172   , L0000173   , L0000174
, L0000175   , L0000176   , . . .   ,

                               *** NETWORK ID: UCART2   ; NETWORK TYPE:
GRIDCART ***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 489383.59   489408.24   489432.89
      489457.54   489482.19
 -
- -

 3859173.4 | 980.85057 (20040918)   942.99838 (16020819)   949.12099 (16020819)
   956.22261 (15120819)   978.86423 (15120819)
 3859151.9 | 966.13698 (20040918)   931.31727 (16020819)   936.00029 (16020819)
   943.26542 (15120819)   964.80799 (15120819)
 3859130.3 | 954.52062 (20040918)   918.79033 (16020819)   923.91377 (16020819)
   929.00401 (15120819)   953.15669 (15120819)
 3859108.7 | 940.28561 (20040918)   906.35758 (16020819)   912.79055 (16020819)
   916.45806 (15120819)   939.96339 (15120819)
 3859087.1 | 926.44054 (20040918)   894.96064 (16020819)   900.65547 (16020819)
   904.15238 (15120819)   928.34292 (15120819)
 3859065.6 | 915.01176 (20040918)   883.45142 (16020819)   890.52837 (16020819)
   890.58016 (15120819)   915.36438 (15120819)
 3859044.0 | 904.88542 (20040918)   872.76646 (16020819)   879.20765 (16020819)
   877.30847 (15120819)   903.06133 (15120819)
 3859022.4 | 892.04564 (20040918)   862.66143 (16020819)   868.60212 (16020819)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                 L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                 L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                 L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   , L0000176   , . . .   ,

                                   *** NETWORK ID: UCART2   ; NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	489506.84	489531.49	489556.14	489580.79	489605.44
3859173.4	976.16261 (15120819)	947.57582 (15120819)	891.38700 (15120819)	868.94842 (18120603)	918.25056 (18120603)
3859151.9	965.29296 (15120819)	937.14450 (15120819)	885.06148 (15120819)	848.27379 (18120603)	902.48498 (18120603)
3859130.3	953.47290 (15120819)	926.81028 (15120819)	877.86247 (15120819)	831.14436 (19102618)	883.98775 (18120603)
3859108.7	941.59241 (15120819)	917.25853 (15120819)	869.91447 (15120819)	820.73915 (19102618)	864.44689 (18120603)
3859087.1	928.83929 (15120819)	907.20142 (15120819)	862.02364 (15120819)	810.66810 (19102618)	844.89822 (18120603)
3859065.6	917.69268 (15120819)	897.26789 (15120819)	856.91712 (15120819)	800.33936 (19102618)	826.51066 (18120603)
3859044.0	907.00900 (15120819)	887.45689 (15120819)	849.39293 (15120819)	789.91146 (19102618)	808.14572 (18120603)
3859022.4	897.68591 (15120819)	880.45196 (15120819)	841.47895 (15120819)	785.01052 (15120819)	789.89367 (18120603)
3859000.9	887.27206 (15120819)	871.22237 (15120819)	834.13390 (15120819)	779.64671 (15120819)	772.67819 (18120603)
3858979.3	876.42793 (15120819)	863.38834 (15120819)	828.00531 (15120819)	774.26629 (15120819)	757.40876 (19102618)
3858957.7	865.72842 (15120819)	854.22007 (15120819)	822.19161 (15120819)	768.88154 (15120819)	749.90748 (19102618)
3858936.1	856.63152 (15120819)	845.15447 (15120819)	814.94386 (15120819)	764.82020 (15120819)	741.06285 (19102618)
3858914.6	846.26306 (15120819)	836.17774 (15120819)	807.69084 (15120819)	760.69513 (15120819)	733.28008 (19102618)
3858893.0	836.06135 (15120819)	828.92278 (15120819)	800.53316 (15120819)	756.79152 (15120819)	725.41583 (19102618)
3858871.4	827.84191 (15120819)	821.66636 (15120819)	794.97553 (15120819)	751.50984 (15120819)	717.33225 (19102618)
3858849.9	819.21757 (15120819)	813.33291 (15120819)	789.32684 (15120819)	747.53034 (15120819)	709.61266 (19102618)
3858828.3	809.83631 (15120819)	806.16114 (15120819)	782.39514 (15120819)	742.34713 (15120819)	701.85273 (19102618)
3858806.7	801.41494 (15120819)	798.97365 (15120819)	776.78397 (15120819)	737.15933 (15120819)	694.41570 (19102618)
3858785.2	793.02041 (15120819)	792.97112 (15120819)	774.64485 (15120819)	736.95034 (15120819)	687.56302 (15120819)
3858763.6	785.57433 (15120819)	788.52583 (15120819)	770.58599 (15120819)	735.03531 (15120819)	684.33383 (15120819)
3858742.0	778.97103 (15120819)	780.45607 (15120819)	763.83674 (15120819)	730.18157 (15120819)	680.73873 (15120819)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	489630.09	489654.74	489679.39	489704.04	489728.69
3859173.4	942.27549 (18120603)	940.07840 (18120603)	912.87241 (18120603)	893.00407 (20030523)	889.69173 (20030523)
3859151.9	928.61586 (18120603)	930.34590 (18120603)	906.68913 (18120603)	877.64252 (20030523)	879.21517 (20030523)
3859130.3	913.74898 (18120603)	919.24145 (18120603)	898.94692 (18120603)	862.78357 (20030523)	868.98937 (20030523)
3859108.7	898.39050 (18120603)	906.70038 (18120603)	891.60170 (18120603)	853.24929 (18120603)	856.10581 (20030523)
3859087.1	882.94858 (18120603)	895.03340 (18120603)	883.85969 (18120603)	848.60668 (18120603)	845.59386 (20030523)
3859065.6	866.47260 (18120603)	883.15583 (18120603)	875.66082 (18120603)	845.14626 (18120603)	833.29211 (20030523)
3859044.0	852.10391 (18120603)	870.82933 (18120603)	866.04168 (18120603)	839.58168 (18120603)	820.97434 (20030523)
3859022.4	835.21430 (18120603)	858.60870 (18120603)	857.38443 (18120603)	834.57322 (18120603)	806.73850 (20030523)
3859000.9	820.66294 (18120603)	845.81356 (18120603)	848.29025 (18120603)	828.19066 (18120603)	793.76851 (20030523)
3858979.3	804.68502 (18120603)	832.89744 (18120603)	839.04064 (18120603)		

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   822.52395 (18120603)    786.08987 (18120603)
 3858957.7 |    788.52158 (18120603)    819.90482 (18120603)    829.19326 (18120603)
   817.36082 (18120603)    784.61256 (18120603)
 3858936.1 |    772.67333 (18120603)    807.49334 (18120603)    819.09662 (18120603)
   810.89018 (18120603)    781.84916 (18120603)
 3858914.6 |    757.22807 (18120603)    793.75912 (18120603)    809.83631 (18120603)
   805.29044 (18120603)    780.92586 (18120603)
 3858893.0 |    741.12679 (18120603)    780.02402 (18120603)    799.99374 (18120603)
   799.93915 (18120603)    779.31293 (18120603)
 3858871.4 |    724.51778 (18120603)    766.58831 (18120603)    790.40966 (18120603)
   794.47756 (18120603)    774.26087 (18120603)
 3858849.9 |    708.93287 (18120603)    752.83089 (18120603)    779.42902 (18120603)
   785.46825 (18120603)    769.51533 (18120603)
 3858828.3 |    695.23847 (19102618)    738.55536 (18120603)    767.92410 (18120603)
   776.91917 (18120603)    764.35020 (18120603)
 3858806.7 |    690.75876 (19102618)    723.30462 (18120603)    756.02707 (18120603)
   768.03750 (18120603)    758.93517 (18120603)
 3858785.2 |    684.35596 (19102618)    706.94516 (18120603)    742.98614 (18120603)
   757.11409 (18120603)    752.05872 (18120603)
 3858763.6 |    677.75107 (19102618)    692.53993 (18120603)    729.93001 (18120603)
   746.67864 (18120603)    744.79300 (18120603)
 3858742.0 |    671.62229 (19102618)    680.22006 (18120603)    718.57624 (18120603)
   738.92760 (18120603)    737.31751 (18120603)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 792
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       489753.34
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 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 3859173.4 |    878.56603 (15112019)
 3859151.9 |    862.82481 (15112019)
 3859130.3 |    852.17352 (20030523)
 3859108.7 |    845.00156 (20030523)
 3859087.1 |    838.72958 (20030523)
 3859065.6 |    830.92320 (20030523)
 3859044.0 |    822.72695 (20030523)
 3859022.4 |    812.75377 (20030523)
 3859000.9 |    803.45658 (20030523)
 3858979.3 |    793.49890 (20030523)
 3858957.7 |    783.35657 (20030523)
 3858936.1 |    774.01516 (20030523)
 3858914.6 |    763.13851 (20030523)
 3858893.0 |    750.51954 (20030523)
 3858871.4 |    736.45191 (20030523)
 3858849.9 |    734.73775 (18120603)
 3858828.3 |    732.22585 (18120603)
 3858806.7 |    730.98764 (18120603)
 3858785.2 |    728.39566 (18120603)
 3858763.6 |    724.47148 (18120603)
 3858742.0 |    720.25085 (18120603)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                 PAGE 793
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                              X-COORD (METERS)
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  (METERS) |       488584.66              488614.48              488644.30
      488674.12              488703.94
 - - -
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 488733.76	488763.58	488793.40	488823.22	488853.04
3858905.0	533.04982 (20090924)	559.48835 (20040923)	591.76402 (16020520)	629.12160 (16020520)	673.53246 (16012217)
3858880.0	526.40273 (20090924)	560.89190 (20040923)	597.41847 (16020520)	630.06566 (16012217)	669.89462 (16012217)
3858855.1	532.08084 (20040923)	555.38174 (20040923)	597.96770 (16020520)	634.93894 (16012217)	666.87250 (16012217)
3858830.2	529.16313 (20040923)	561.92052 (16020520)	597.14134 (16020520)	635.90527 (16012217)	662.20530 (16012217)
3858805.3	532.79934 (20040923)	567.39089 (16020520)	600.87412 (16012217)	636.98107 (16012217)	658.48911 (16012217)
3858780.3	536.39402 (20040923)	571.69081 (16020520)	605.70678 (16012217)	637.88323 (16012217)	654.96965 (16012217)
3858755.4	540.59178 (16020520)	573.80310 (16020520)	609.46256 (16012217)	636.31060 (16012217)	647.81825 (16012217)
3858730.5	542.82713 (16020520)	573.11281 (16020520)	609.77391 (16012217)	632.50778 (16012217)	635.31121 (16012217)
3858705.5	543.94320 (16020520)	576.36186 (16012217)	609.22093 (16012217)	626.13828 (16012217)	623.59799 (16012217)
3858680.6	547.09341 (16020520)	578.43144 (16012217)	606.68802 (16012217)	618.41489 (16012217)	614.49135 (16012217)
3858655.7	548.82517 (16020520)	581.84155 (16012217)	605.23221 (16012217)	610.47169 (16012217)	600.58742 (16012217)

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 3858630.8 |    551.93292 (16012217)    581.98565 (16012217)    601.07192 (16012217)
   602.21242 (16012217)    591.67632 (20122517)
 3858605.8 |    555.01714 (16012217)    581.48067 (16012217)    596.94715 (16012217)
   592.78165 (16012217)    584.14213 (20122517)
 3858580.9 |    558.48333 (16012217)    580.66276 (16012217)    590.67951 (16012217)
   583.74689 (16012217)    576.16251 (20122517)
 3858556.0 |    561.29155 (16012217)    581.27462 (16012217)    585.33419 (16012217)
   573.32367 (20122517)    564.13933 (20122517)
 3858531.0 |    560.44905 (16012217)    578.19579 (16012217)    575.39733 (16012217)
   564.32904 (20122517)    551.48425 (20122517)
 3858506.1 |    561.16714 (16012217)    571.74005 (16012217)    567.06026 (16012217)
   557.01286 (20122517)    548.15767 (18122220)
 3858481.2 |    560.10252 (16012217)    566.73729 (16012217)    556.87657 (16012217)
   548.82802 (20122517)    550.85046 (18122220)
 3858456.2 |    558.27029 (16012217)    559.91443 (16012217)    549.96033 (20122517)
   540.47535 (20122517)    552.66983 (18122220)
 3858431.3 |    552.92417 (16012217)    550.89581 (16012217)    545.23607 (20122517)
   530.92445 (20122517)    550.42524 (18122220)
 3858406.4 |    548.30359 (16012217)    541.51136 (16012217)    536.76234 (20122517)
   522.79974 (18122220)    549.73204 (18122220)
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 795
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                    *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       488882.86              488912.68              488942.50
      488972.32              489002.14
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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 3858905.0 |    694.14887 (16012217)    699.33565 (16012217)    680.35443 (20122517)
   689.54511 (18122220)    720.86772 (18122220)
 3858880.0 |    689.63337 (16012217)    687.37004 (16012217)    670.41775 (20122517)
   686.94274 (18122220)    713.68988 (18122220)
 3858855.1 |    680.93498 (16012217)    673.77648 (16012217)    658.72618 (20122517)
   685.57830 (18122220)    706.53707 (18122220)
 3858830.2 |    671.70957 (16012217)    661.97095 (20122517)    648.45702 (18122220)
   686.98213 (18122220)    696.15615 (18122220)
 3858805.3 |    659.58163 (16012217)    649.39101 (20122517)    650.06282 (18122220)
   687.02344 (18122220)    687.63965 (18122220)
 3858780.3 |    651.85056 (16012217)    643.37209 (20122517)    651.86698 (18122220)
   678.02231 (18122220)    679.13137 (18122220)
 3858755.4 |    639.47129 (16012217)    630.95391 (20122517)    650.34066 (18122220)
   669.60093 (18122220)    667.44696 (18122220)
 3858730.5 |    626.70466 (20122517)    614.56585 (20122517)    646.75527 (18122220)
   660.85021 (18122220)    653.93740 (18122220)
 3858705.5 |    614.03781 (20122517)    612.59972 (18122220)    642.77160 (18122220)
   651.87334 (18122220)    638.77008 (18122220)
 3858680.6 |    607.97414 (20122517)    613.87541 (18122220)    638.41161 (18122220)
   642.77964 (18122220)    625.58082 (18122220)
 3858655.7 |    594.99159 (20122517)    612.71556 (18122220)    632.55462 (18122220)
   630.41346 (18122220)    610.61370 (18122220)
 3858630.8 |    583.03130 (20122517)    609.98310 (18122220)    626.40645 (18122220)
   620.00256 (18122220)    597.36228 (18010221)
 3858605.8 |    579.53161 (18122220)    606.31357 (18122220)    618.28491 (18122220)
   608.86649 (18122220)    598.46269 (18010221)
 3858580.9 |    579.27236 (18122220)    601.75330 (18122220)    609.41660 (18122220)
   597.90220 (18122220)    599.60930 (18010221)
 3858556.0 |    579.16911 (18122220)    598.21560 (18122220)    601.04437 (18122220)
   585.07092 (18122220)    600.10133 (18010221)
 3858531.0 |    577.74399 (18122220)    594.36859 (18122220)    592.71403 (18122220)
   573.21168 (18122220)    599.48427 (18010221)
 3858506.1 |    576.95194 (18122220)    589.24119 (18122220)    584.81508 (18122220)
   561.70607 (18122220)    599.63768 (18010221)
 3858481.2 |    575.39011 (18122220)    583.87749 (18122220)    575.62746 (18122220)
   555.70485 (18010221)    599.40353 (18010221)
 3858456.2 |    573.63508 (18122220)    576.80946 (18122220)    564.36995 (18122220)
   557.14355 (18010221)    597.84331 (18010221)
 3858431.3 |    568.21080 (18122220)    570.10956 (18122220)    553.30964 (18122220)
   558.50366 (18010221)    596.77935 (18010221)
 3858406.4 |    564.42481 (18122220)    562.77085 (18122220)    542.10230 (18122220)
   559.10193 (18010221)    594.62917 (18010221)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 796
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 489031.96	489061.78	489091.60	489121.42	489151.24
3858905.0	726.22851 (18122220)	704.91778 (18122220)	762.49981 (18010221)	798.47602 (18010221)	810.53282 (18010221)
3858880.0	712.83793 (18122220)	704.90611 (18010221)	758.54448 (18010221)	789.77773 (18010221)	798.94057 (18010221)
3858855.1	698.08861 (18122220)	704.09141 (18010221)	753.42529 (18010221)	780.69879 (18010221)	786.50321 (18010221)
3858830.2	683.88792 (18122220)	703.06398 (18010221)	749.67996 (18010221)	773.43147 (18010221)	773.05795 (19011424)
3858805.3	669.58361 (18122220)	703.10521 (18010221)	742.57861 (18010221)	760.34013 (18010221)	767.62239 (19011424)
3858780.3	655.84636 (18122220)	701.56073 (18010221)	736.87316 (18010221)	750.66965 (18010221)	760.65369 (19011424)
3858755.4	648.47744 (18010221)	699.48440 (18010221)	731.65532 (18010221)	739.49336 (18010221)	754.13815 (19011424)
3858730.5	648.72413 (18010221)	697.39552 (18010221)	725.33845 (18010221)	729.42362 (18010221)	747.18221 (19011424)
3858705.5	648.31038 (18010221)	692.53618 (18010221)	715.11287 (18010221)	718.90366 (18010221)	740.54435 (19011424)
3858680.6	647.97931 (18010221)	686.06044 (18010221)	705.10252 (18010221)	705.37847 (18010221)	731.06312 (19011424)
3858655.7	646.73998 (18010221)	682.93032 (18010221)	696.52518 (18010221)	691.44889 (18010221)	722.59945 (19011424)
3858630.8	645.76251 (18010221)	678.34384 (18010221)	688.85190 (18010221)	685.54631 (19011424)	713.61544 (19011424)
3858605.8	643.59849 (18010221)	671.91083 (18010221)	680.74943 (18010221)	681.16843 (19011424)	705.20162 (19011424)

 3858905.0 | 847.31022 (19011424)
 3858880.0 | 838.69961 (19011424)
 3858855.1 | 828.57875 (19011424)
 3858830.2 | 819.52882 (19011424)

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 3858805.3 |    810.07839 (19011424)
 3858780.3 |    799.39560 (19011424)
 3858755.4 |    789.08417 (20022718)
 3858730.5 |    782.42438 (20022718)
 3858705.5 |    774.21953 (20022718)
 3858680.6 |    764.09355 (20022718)
 3858655.7 |    751.77144 (20022718)
 3858630.8 |    737.44473 (20022718)
 3858605.8 |    723.58598 (20022718)
 3858580.9 |    710.92210 (20022718)
 3858556.0 |    696.43328 (20022718)
 3858531.0 |    684.27424 (20022718)
 3858506.1 |    670.96466 (20022718)
 3858481.2 |    658.04122 (20022718)
 3858456.2 |    646.72095 (20022718)
 3858431.3 |    635.62633 (20022718)
 3858406.4 |    624.33805 (20022718)
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                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                   *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       489386.10              489460.62              489535.14
      489609.66              489684.18
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |    702.00693 (15010420)    733.59811 (15010420)    712.02484 (19010903)
   711.40394 (16020722)    671.56369 (16122202)
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 3861650.6 |    721.42513 (15010420)    751.25868 (15010420)    738.70996 (19010903)
   736.52062 (16020722)    691.27356 (16122202)
 3861625.5 |    740.91760 (15010420)    766.72636 (15010420)    759.87143 (19010903)
   756.66975 (16020722)    708.08949 (16122202)
 3861600.3 |    759.44205 (15010420)    793.16342 (15010420)    780.76365 (19010903)
   777.03237 (16020722)    730.54823 (19123008)
 3861575.2 |    793.79964 (15010420)    811.36059 (15010420)    800.18486 (19010903)
   797.55794 (16020722)    749.07500 (19123008)
 3861550.1 |    816.12829 (15010420)    832.59706 (15010420)    826.80689 (19010903)
   816.06691 (16020722)    754.97373 (19123008)
 3861524.9 |    836.27603 (15010420)    857.22756 (15010420)    852.17829 (19010903)
   832.22670 (16020722)    764.24065 (19123008)
 3861499.8 |    857.50836 (15010420)    880.67748 (15010420)    875.98543 (19010903)
   851.47431 (16020722)    779.40755 (19123008)
 3861474.6 |    880.39974 (18092521)    904.00597 (15010420)    900.49705 (19010903)
   871.74858 (16020722)    795.52116 (19123008)
 3861449.5 |    902.37607 (18092521)    928.48015 (15010420)    925.72850 (19010903)
   888.10402 (16020722)    806.44621 (19121118)
 3861424.4 |    928.15006 (18092521)    955.61641 (15010420)    950.25988 (19010903)
   902.62202 (16020722)    830.31682 (18120822)
 3861399.2 |    955.48086 (18092521)    981.19185 (15010420)    973.90748 (19010903)
   920.48933 (16020722)    856.03856 (18120822)
 3861374.1 |    983.03619 (18092521)   1006.46188 (15010420)   1001.20275 (19010903)
   939.04226 (15010520)    877.74077 (18120822)
 3861348.9 |   1012.30325 (18092521)   1034.65655 (15010420)   1029.34535 (19010903)
   964.26845 (15010520)    894.78907 (18120822)
 3861323.8 |   1043.45152 (18092521)   1069.72620 (15010420)   1061.91105 (19010903)
   988.93335 (15010520)    912.17413 (18120822)
 3861298.7 |   1078.42779 (18092521)   1105.23619 (15010420)   1095.90748 (19010903)
  1014.49755 (15010520)    932.89621 (18120822)
 3861273.5 |   1119.67163 (18092521)   1141.08049 (15010420)   1133.66474 (16020722)
  1044.49406 (15010520)    945.06216 (19122119)
 3861248.4 |   1170.35696 (18092521)   1184.71214 (16110822)   1174.40371 (16020722)
  1070.68302 (15010520)    965.58357 (19122119)
 3861223.2 |   1228.11988 (18092521)   1239.89993 (16110822)   1218.95689 (16020722)
  1092.39856 (15010520)    982.73893 (19122119)
 3861198.1 |   1291.91915 (18092521)   1303.21627 (16110822)   1270.50785 (16020722)
  1125.48946 (18120822)    998.32449 (19122119)
 3861173.0 |   1363.12724 (18092521)   1373.72715 (16110822)   1319.13284 (16020722)
  1166.60480 (18120822)   1015.83397 (19122222)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                        ***        01:16:45

                                   PAGE 799
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
```

INCLUDING SOURCE(S): L0000149 , L0000150
, L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158
, L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166
, L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174
, L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)			
	489758.70	489833.22	489907.74	489982.26
490056.78				
3861675.8	636.40619 (19121118)	603.89147 (19122119)	573.28084 (19010320)	546.20146 (16122718)
539.15536 (20010318)				
3861650.6	652.57372 (19121118)	618.78991 (19122119)	582.45784 (19010320)	558.49540 (16122718)
543.50446 (20010318)				
3861625.5	670.22195 (19121118)	633.04381 (19122119)	591.64519 (19122222)	573.89268 (16122718)
549.80975 (20010318)				
3861600.3	696.08858 (18120822)	648.81312 (19122119)	597.52699 (19122222)	592.70090 (16122718)
559.57121 (20010318)				
3861575.2	706.47758 (18120822)	656.70697 (19122119)	603.34600 (16122118)	606.29298 (20010318)
560.70786 (20022002)				
3861550.1	711.59281 (18120822)	659.72656 (19010320)	621.17131 (16122718)	615.14634 (20010318)
561.27963 (20022002)				
3861524.9	719.09535 (18120822)	669.30477 (19010320)	637.98603 (16122718)	618.43569 (20010318)
564.10945 (20022002)				
3861499.8	725.54974 (18120822)	678.28863 (19010320)	653.24851 (16122718)	627.39201 (20010318)
567.91342 (16122308)				
3861474.6	738.09982 (19122119)	685.79002 (19010320)	666.64319 (20010318)	638.13387 (20010318)
578.10949 (16122308)				
3861449.5	758.25915 (19122119)	695.35483 (19122222)	680.23937 (20010318)	630.69905 (20022002)
586.38915 (16122308)				
3861424.4	772.11580 (19122119)	708.27064 (16122718)	700.91963 (20010318)	628.47831 (20022002)
593.89288 (16122308)				
3861399.2	785.68408 (19122119)	733.49265 (16122718)	703.42063 (20010318)	627.02163 (16122308)
598.52175 (16122308)				
3861374.1	795.56869 (19122119)	753.56062 (16122718)	703.12770 (20010318)	638.42336 (16122308)
603.10303 (16122308)				
3861348.9	808.33572 (19010320)	769.39805 (20010318)	703.41121 (20010318)	648.10299 (16122308)
606.28146 (16122308)				
3861323.8	820.58615 (19010320)	776.80873 (20010318)	703.60505 (20010318)	

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                                    L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                                    L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                                    L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   , L0000176   , . . .   ,

                                    *** NETWORK ID: UCART4   ; NETWORK TYPE: GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 490131.30   490205.82   490280.34
      490354.86   490429.38
 - - -

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 3861600.3 |    511.63980 (16122308)    505.18672 (16122308)    477.37057 (16122308)
   433.72756 (20122522)    413.12618 (16021119)
 3861575.2 |    521.35310 (16122308)    511.25221 (16122308)    475.18318 (16122308)
   434.34966 (16122719)    415.03640 (16021119)
 3861550.1 |    538.03217 (16122308)    514.98849 (16122308)    475.33132 (16122308)
   435.90639 (16122719)    420.90447 (16021119)
 3861524.9 |    546.61477 (16122308)    514.67615 (16122308)    472.01987 (16122308)
   442.87699 (16021119)    420.18663 (16021119)
 3861499.8 |    550.35493 (16122308)    517.73681 (16122308)    474.11323 (16122719)
   449.16937 (16021119)    419.29443 (16021119)
 3861474.6 |    554.94414 (16122308)    523.36106 (16122308)    479.70296 (16122719)
   448.76242 (16021119)    422.20937 (15020221)
 3861449.5 |    568.23300 (16122308)    522.69094 (16122308)    478.33780 (16021119)
   446.12287 (16021119)    422.48590 (15020221)
 3861424.4 |    561.39834 (16122308)    515.87436 (16122308)    478.74667 (16021119)
   444.60633 (15020221)    424.89145 (16021120)
 3861399.2 |    558.60794 (16122308)    508.98520 (16122719)    476.68077 (16021119)
   445.79828 (15020221)    434.54761 (16010507)
 3861374.1 |    556.72273 (16122308)    509.78202 (16021119)    474.69539 (16021119)
   447.50081 (16021120)    451.78030 (16010507)
 3861348.9 |    552.22638 (16122308)    512.90809 (16021119)    475.13852 (15020221)
   466.91727 (16010507)    465.41466 (16010507)
 3861323.8 |    546.61057 (16122308)    509.08846 (16021119)    486.21672 (16010507)
   486.74243 (16010507)    477.89774 (16010507)
 3861298.7 |    548.69325 (16021119)    508.77540 (15020221)    509.07183 (16010507)
   500.84485 (16010507)    488.58360 (16010507)
 3861273.5 |    547.83952 (16021119)    532.68614 (16010507)    527.67342 (16010507)
   512.75469 (16010507)    498.93946 (16010507)
 3861248.4 |    555.77517 (16010507)    555.97583 (16010507)    542.03282 (16010507)
   523.35378 (16010507)    508.97281 (20120718)
 3861223.2 |    586.33003 (16010507)    576.32355 (16010507)    560.04397 (16010507)
   536.69145 (20120718)    520.61031 (20022720)
 3861198.1 |    613.18528 (16010507)    597.04131 (16010507)    581.71613 (20120718)
   551.96142 (20120718)    537.70933 (20022720)
 3861173.0 |    634.68594 (16010507)    618.17807 (16010507)    596.77804 (20120718)
   568.97330 (20022720)    549.49549 (20022720)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 801
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                 L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
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                 L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                 L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       490503.90               490578.42               490652.94
      490727.46               490801.98
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3861675.8 |    373.34535 (16021119)    360.76399 (16021119)    345.82842 (15020221)
   340.08896 (15020221)    327.69834 (16021120)
 3861650.6 |    376.74656 (16021119)    364.98629 (16021119)    353.62980 (15020221)
   345.04730 (16021120)    333.05526 (16021120)
 3861625.5 |    383.34106 (16021119)    370.11772 (16021119)    359.24883 (15020221)
   346.78615 (16021120)    334.29662 (16021120)
 3861600.3 |    395.44068 (16021119)    375.26648 (15020221)    359.62043 (16021120)
   347.94469 (16021120)    341.88619 (16010507)
 3861575.2 |    395.24876 (16021119)    378.06649 (15020221)    362.54402 (16021120)
   349.06658 (16021120)    354.74781 (16010507)
 3861550.1 |    394.48158 (15020221)    377.92283 (15020221)    364.55915 (16021120)
   361.66968 (16010507)    365.48200 (16010507)
 3861524.9 |    396.69741 (15020221)    381.04961 (16021120)    369.33839 (16010507)
   375.72621 (16010507)    373.70356 (16010507)
 3861499.8 |    397.35664 (15020221)    382.86552 (16021120)    385.01600 (16010507)
   386.22227 (16010507)    381.63116 (16010507)
 3861474.6 |    400.78584 (16021120)    393.51701 (16010507)    397.20798 (16010507)
   393.56850 (16010507)    387.41551 (16010507)
 3861449.5 |    405.09008 (16010507)    409.74775 (16010507)    407.33527 (16010507)
   400.24135 (16010507)    388.18458 (16010507)
 3861424.4 |    421.32882 (16010507)    422.17388 (16010507)    414.62482 (16010507)
   403.25322 (16010507)    393.05496 (20120718)
 3861399.2 |    435.30672 (16010507)    430.83253 (16010507)    419.31925 (16010507)
   408.77156 (20120718)    397.74402 (20022720)
 3861374.1 |    447.35916 (16010507)    438.20312 (16010507)    423.48848 (20120718)
   414.88202 (20022720)    401.89722 (20022720)
 3861348.9 |    456.70682 (16010507)    443.01606 (16010507)    429.93286 (20022720)
   418.41349 (20022720)    405.24448 (20022720)
 3861323.8 |    463.78377 (16010507)    448.92624 (20120718)    436.37431 (20022720)
   421.48868 (20022720)    406.58679 (20022720)
 3861298.7 |    471.74220 (20120718)    460.06083 (20022720)    440.50813 (20022720)
   428.92053 (20022720)    412.56230 (20022720)
 3861273.5 |    480.43173 (20120718)    465.08928 (20022720)    445.41679 (20022720)
```

 3861675.8 | 317.74773 (16021120)
 3861650.6 | 324.19935 (18020819)
 3861625.5 | 336.05117 (18020819)
 3861600.3 | 345.61658 (16010507)
 3861575.2 | 354.15660 (16010507)
 3861550.1 | 360.80215 (16010507)
 3861524.9 | 366.10095 (16010507)
 3861499.8 | 370.27974 (16010507)
 3861474.6 | 374.09815 (20120718)
 3861449.5 | 379.85373 (20022720)
 3861424.4 | 382.39795 (20022720)

 3861399.2 | 386.18735 (20022720)
 3861374.1 | 388.33140 (20022720)
 3861348.9 | 390.17737 (20022720)
 3861323.8 | 392.16839 (20022720)
 3861298.7 | 393.71086 (20022720)
 3861273.5 | 395.17587 (20022720)
 3861248.4 | 407.98778 (18120921)
 3861223.2 | 423.41222 (18120921)
 3861198.1 | 437.82495 (18120921)
 3861173.0 | 455.97531 (18120921)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                  L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   , L0000176   , . . .   ,

                                  *** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 491611.20   491641.99   491672.78
      491703.57   491734.36
 - - -

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   265.89581 (18022523)    264.32221 (18022523)
 3861546.3 |    274.36464 (18022523)    273.50927 (18022523)    271.38939 (18022523)
   269.63439 (18022523)    267.98377 (18022523)
 3861516.8 |    278.99820 (18022523)    277.24557 (18022523)    275.57475 (18011522)
   273.77672 (18011522)    272.08891 (18011522)
 3861487.4 |    283.34150 (18011522)    281.79143 (18011522)    280.08874 (18011522)
   277.71018 (18011522)    275.22350 (18011522)
 3861457.9 |    287.28492 (18011522)    284.89965 (18011522)    282.41300 (18011522)
   280.41380 (18120921)    278.41439 (18120921)
 3861428.5 |    291.52984 (18120921)    288.77178 (18120921)    286.74815 (18120921)
   284.35370 (18120921)    281.87544 (18120921)
 3861399.0 |    295.79704 (18120921)    292.52227 (18120921)    290.04248 (18120921)
   286.93660 (18120921)    284.32756 (18120921)
 3861369.6 |    298.41404 (18120921)    295.00742 (18120921)    292.15384 (18120921)
   288.67505 (18120921)    286.39622 (20120318)
 3861340.1 |    300.52216 (20120318)    298.07298 (20120318)    296.38780 (18120708)
   295.02195 (18120708)    293.54846 (18120708)
 3861310.7 |    308.87248 (18120708)    306.72661 (18120708)    304.85688 (18120708)
   302.88876 (18120708)    300.78483 (18120708)
 3861281.2 |    318.11022 (18120708)    315.35790 (18120708)    312.48104 (18120708)
   310.12361 (18120708)    307.04244 (18120708)
 3861251.8 |    326.78279 (18120708)    323.13708 (18120708)    318.97203 (18120708)
   314.97573 (18120708)    309.56281 (18120708)
 3861222.3 |    334.23122 (18120708)    327.90292 (18120708)    320.66106 (18120708)
   313.28266 (18120708)    306.21082 (19010319)
 3861192.9 |    335.33026 (19010319)    326.68485 (19010319)    318.45020 (19010319)
   310.16286 (19010319)    301.72828 (19010319)
 3861163.4 |    326.83294 (19010319)    316.35949 (19010319)    307.99969 (19010319)
   299.38732 (19010319)    291.19917 (19010319)
 3861134.0 |    312.36349 (20120308)    304.91438 (20120308)    297.22248 (20120308)
   289.43297 (20120308)    281.91596 (20120308)
 3861104.5 |    292.21681 (20120308)    288.20746 (20120308)    283.84625 (20120308)
   279.54044 (20120308)    275.27374 (20120308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 804
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
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, L0000175   , L0000176   , . . .   ,

*** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)				
	491765.15	491795.94	491826.73	491857.52	491888.31
3861693.5	260.15905 (18011122)	256.78896 (18011122)	253.47447 (18011122)	249.97550 (18011122)	245.41890 (18011122)
3861664.1	258.87357 (18011122)	254.82659 (18011122)	250.39065 (18011122)	245.57833 (18011122)	244.42571 (18022523)
3861634.6	255.79020 (18011122)	252.57052 (18022523)	251.48470 (18022523)	249.96407 (18022523)	248.71683 (18022523)
3861605.2	258.56172 (18022523)	257.73276 (18022523)	256.23528 (18022523)	254.57048 (18022523)	252.98584 (18022523)
3861575.7	262.82250 (18022523)	261.40472 (18022523)	259.34689 (18022523)	257.44458 (18011522)	256.59547 (18011522)
3861546.3	266.30633 (18011522)	265.38216 (18011522)	263.56488 (18011522)	262.09511 (18011522)	260.25542 (18011522)
3861516.8	270.00327 (18011522)	268.05025 (18011522)	266.23109 (18011522)	264.05274 (18011522)	262.50115 (18011522)
3861487.4	272.64052 (18011522)	270.42818 (18120921)	268.59854 (18120921)	266.65947 (18120921)	265.08577 (18120921)
3861457.9	276.05382 (18120921)	273.85463 (18120921)	271.81210 (18120921)	269.42970 (18120921)	266.95701 (18120921)
3861428.5	279.31995 (18120921)	276.69018 (18120921)	273.98360 (18120921)	270.94142 (18120921)	267.80424 (18120921)
3861399.0	281.38034 (18120921)	278.09720 (18120921)	275.46799 (20120318)	273.40805 (20120318)	271.23027 (20120318)
3861369.6	284.42477 (20120318)	282.45885 (18120708)	281.24264 (18120708)	279.88754 (18120708)	278.66200 (18120708)
3861340.1	291.95914 (18120708)	290.23285 (18120708)	288.95455 (18120708)	286.24252 (18120708)	284.80997 (18120708)
3861310.7	298.82631 (18120708)	296.27493 (18120708)	293.75177 (18120708)	290.26708 (18120708)	287.41795 (18120708)
3861281.2	303.54600 (18120708)	299.62023 (18120708)	295.30522 (18120708)	291.00274 (18120708)	286.14935 (18120708)
3861251.8	304.04644 (18120708)	298.20456 (18120708)	292.54904 (18120708)	286.54301 (18120708)	280.70356 (19010319)
3861222.3	299.87671 (19010319)	293.94348 (19010319)	288.47185 (19010319)	283.19874 (19010319)	277.61074 (19010319)
3861192.9	294.27228 (19010319)	287.41547 (19010319)	281.97786 (19010319)	276.95239 (19010319)	272.02878 (19010319)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
  L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
  L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
  L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	491919.10	491949.89	491980.68	492011.47	492042.26
3861693.5	238.99292 (18011122)	236.76159 (18022523)	236.37034 (18022523)	235.77770 (18022523)	234.99727 (18022523)
3861664.1	243.37934 (18022523)	242.57728 (18022523)	242.23704 (18022523)	241.28562 (18022523)	239.96063 (18022523)
3861634.6	247.74690 (18022523)	246.82928 (18022523)	245.52868 (18022523)	244.29727 (18022523)	242.89304 (18011522)
3861605.2	251.25697 (18022523)	249.83991 (18011522)	248.60485 (18011522)	247.22564 (18011522)	246.13919 (18011522)
3861575.7	254.89905 (18011522)	253.29878 (18011522)	252.01945 (18011522)	249.94827 (18011522)	248.85524 (18011522)
3861546.3	258.29884 (18011522)	256.23350 (18011522)	254.06531 (18011522)	252.86750 (18120921)	250.95071 (18120921)
3861516.8	260.60842 (18120921)	258.57231 (18120921)	256.43035 (18120921)		

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   255.47195 (18120921)    253.31162 (18120921)
 3861487.4 |    263.16620 (18120921)    261.13768 (18120921)    258.55033 (18120921)
   256.29375 (18120921)    254.54574 (18120921)
 3861457.9 |    264.62280 (18120921)    261.93952 (18120921)    259.58587 (18120921)
   257.17492 (20120318)    256.51342 (20120318)
 3861428.5 |    265.63845 (20120318)    263.97704 (20120318)    262.17487 (20120318)
   259.98478 (20120318)    259.91993 (18120708)
 3861399.0 |    269.91643 (18120708)    269.03411 (18120708)    267.72055 (18120708)
   266.23414 (18120708)    265.58615 (18120708)
 3861369.6 |    276.40657 (18120708)    275.36376 (18120708)    272.99627 (18120708)
   270.69660 (18120708)    268.98139 (18120708)
 3861340.1 |    281.04995 (18120708)    278.81176 (18120708)    275.75261 (18120708)
   272.48590 (18120708)    269.84778 (18120708)
 3861310.7 |    283.06343 (18120708)    279.10479 (18120708)    275.26763 (18120708)
   271.30872 (18120708)    267.81508 (18120708)
 3861281.2 |    281.17606 (18120708)    276.16853 (18120708)    271.19619 (18120708)
   267.12506 (18120708)    262.11196 (19010319)
 3861251.8 |    276.45052 (19010319)    272.25427 (19010319)    268.14915 (19010319)
   264.39747 (19010319)    259.81986 (19010319)
 3861222.3 |    273.10355 (19010319)    268.56430 (19010319)    264.01159 (19010319)
   259.68925 (19010319)    255.34586 (19010319)
 3861192.9 |    267.18981 (19010319)    262.90468 (19010319)    258.62996 (19010319)
   254.58052 (19010319)    250.04911 (19010319)
 3861163.4 |    260.98337 (19010319)    256.95350 (19010319)    253.10771 (19010319)
   249.63867 (19010319)    245.40839 (19010319)
 3861134.0 |    255.87758 (20120308)    252.75996 (20120308)    249.59254 (20120308)
   246.88981 (20120308)    244.35056 (20120308)
 3861104.5 |    255.85459 (20120308)    253.41466 (20120308)    251.08647 (20120308)
   249.11616 (20120308)    247.22240 (20120308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                         ***        01:16:45

                                    PAGE 806
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                     *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***
```

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	492073.05	492103.84	492134.63	492165.42	492196.21
3861693.5	233.21827 (18022523)	231.90373 (18022523)	230.64307 (18022523)	229.23918 (18022523)	227.50262 (18022523)
3861664.1	235.97917 (18022523)	234.19126 (18022523)	232.93227 (18011522)	231.84677 (18011522)	230.62235 (18011522)
3861634.6	241.10076 (18011522)	237.93444 (18011522)	235.89802 (18011522)	233.54355 (18011522)	233.09974 (18011522)
3861605.2	244.07125 (18011522)	242.10109 (18011522)	239.19002 (18011522)	235.77242 (18011522)	234.11549 (18120921)
3861575.7	247.62125 (18011522)	243.78225 (18120921)	242.57051 (18120921)	239.07708 (18120921)	236.45872 (18120921)
3861546.3	248.30456 (18120921)	246.16518 (18120921)	244.30948 (18120921)	241.72809 (18120921)	239.22122 (18120921)
3861516.8	249.78041 (18120921)	247.60062 (18120921)	244.87445 (18120921)	242.61479 (18120921)	239.89677 (20120318)
3861487.4	250.52421 (18120921)	247.93100 (20120318)	246.28874 (20120318)	244.71558 (20120318)	242.78865 (20120318)
3861457.9	253.03808 (20120318)	250.98240 (20120318)	248.82223 (18120708)	247.88205 (18120708)	246.78424 (18120708)
3861428.5	257.81669 (18120708)	256.28487 (18120708)	254.58998 (18120708)	253.20354 (18120708)	251.41535 (18120708)
3861399.0	262.96716 (18120708)	260.68050 (18120708)	258.47049 (18120708)	256.33705 (18120708)	253.81180 (18120708)
3861369.6	265.23939 (18120708)	262.37993 (18120708)	259.87160 (18120708)	256.73701 (18120708)	253.74764 (18120708)
3861340.1	265.73233 (18120708)	262.05437 (18120708)	258.31630 (18120708)	254.55028 (18120708)	251.01909 (18120708)
3861310.7	262.97608 (18120708)	258.95379 (18120708)	254.48769 (18120708)	250.35211 (18120708)	246.07509 (18120708)
3861281.2	258.26162 (19010319)	254.92223 (19010319)	251.41760 (19010319)	247.77320 (19010319)	244.42400 (19010319)
3861251.8	255.86627 (19010319)	251.82979 (19010319)	248.15448 (19010319)	244.60412 (19010319)	240.96401 (19010319)
3861222.3	251.65115 (19010319)	247.89341 (19010319)	244.07171 (19010319)	240.59750 (19010319)	237.03525 (19010319)
3861192.9	246.81001 (19010319)	243.47226 (19010319)	240.03419 (19010319)	236.49414 (19010319)	232.85071 (19010319)
3861163.4	242.17075 (19010319)	239.21733 (19010319)	235.70771 (19010319)	232.26882 (19010319)	228.69591 (19010319)
3861134.0	242.20243 (20120308)	240.16783 (20120308)	237.75929 (20120308)	235.69112 (20120308)	233.93755 (20120308)

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                  L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   , L0000176   , . . .   ,

                                  *** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 492227.00
 -

 3861693.5 | 226.31134 (18011522)
 3861664.1 | 229.46017 (18011522)
 3861634.6 | 231.11480 (18011522)
 3861605.2 | 232.42162 (18120921)
 3861575.7 | 234.50453 (18120921)
 3861546.3 | 236.19844 (18120921)
 3861516.8 | 238.37189 (20120318)
 3861487.4 | 240.71915 (20120318)
 3861457.9 | 245.75136 (18120708)
 3861428.5 | 249.47104 (18120708)
 3861399.0 | 251.38825 (18120708)
 3861369.6 | 250.68143 (18120708)
 3861340.1 | 247.72533 (18120708)
 3861310.7 | 243.40821 (19010319)
 3861281.2 | 241.35562 (19010319)
 3861251.8 | 237.64056 (19010319)
 3861222.3 | 233.38411 (19010319)
 3861192.9 | 229.29673 (19010319)

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   , L0000176   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488802.97	3861310.09	684.31099	(16012202)	488863.58	3861309.29	749.89847	(19120419)
488847.63	3861279.78	717.53929	(16120117)	488850.82	3861262.24	716.78410	(16120117)
488810.14	3861261.44	697.32091	(20112808)	488810.94	3861289.36	687.88641	(16012202)
488819.72	3861306.90	691.53775	(16120117)	488816.53	3861235.92	705.87433	(20112808)
488841.25	3861126.66	765.68749	(16102717)	488879.53	3861121.88	793.93054	(16102717)
488913.82	3861121.08	821.33018	(20112808)	488925.79	3861092.37	865.47526	(16102717)
488920.03	3861067.49	934.58112	(16012108)	488996.74	3861113.92	957.04257	(19120419)
488974.03	3861097.77	913.33324	(16102717)	488931.63	3860976.64	1000.20847	(16020308)
488935.67	3861034.68	975.25965	(16012108)	488959.90	3861061.43	981.46246	(16012108)

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        489165.81   3861208.80     1518.04978  (18012323)                489317.74
3861109.28     1448.96743  (16122819)
        489385.87   3861014.75     1713.13617  (18092521)                489372.24
3861112.69     1434.02088  (15102420)
        489420.79   3861106.73     1500.06238  (15010420)                489436.12
3861037.74     1652.04215  (16110822)
        489488.07   3861036.89     1680.86438  (18010302)                489473.59
3861110.99     1481.67386  (20010422)
        489431.01   3861167.20     1437.12515  (15010420)                489662.66
3860915.95     1433.28046  (19010319)
        489644.78   3861076.07     1117.35759  (19122222)                489659.26
3861099.06     1067.37152  (19122222)
        489735.91   3861020.71      946.34664  (20010318)                489700.14
3861029.23     1026.72660  (20010318)
        489708.65   3861062.44      998.74923  (20010318)                489779.34
3861099.06      863.67136  (20010318)
        489835.95   3859138.59      818.62999  (16010405)                489885.95
3859138.59      844.06123  (16010405)
        489935.95   3859138.59      793.13117  (16010405)                489985.95
3859138.59      754.58621  (16122521)
        490035.95   3859138.59      770.07836  (15121808)                490085.95
3859138.59      781.84643  (15121808)
        490135.95   3859138.59      750.45492  (15121808)                490185.95
3859138.59      661.47410  (15121808)
        490235.95   3859138.59      638.24187  (20121324)                490285.95
3859138.59      618.57080  (20121324)
        490335.95   3859138.59      553.15985  (20121324)                490385.95
3859138.59      455.43913  (20121324)
        490435.95   3859138.59      411.61921  (15013024)                490485.95
3859138.59      358.08813  (15013024)
        490535.95   3859138.59      288.15714  (15013024)                490585.95
3859138.59      261.51990  (19122909)
        490635.95   3859138.59      246.09635  (19122909)                490685.95
3859138.59      225.60793  (19122909)
        490735.95   3859138.59      201.39556  (19122909)                490785.95
3859138.59      174.93036  (19122909)
        490835.95   3859138.59      147.86857  (19122909)                490885.95
3859138.59      121.84655  (19122909)
        489835.95   3859188.59      864.90994  (16010405)                489885.95
3859188.59      861.58383  (16010405)
        489935.95   3859188.59      793.37629  (16122521)                489985.95
3859188.59      777.87845  (15121808)
        490035.95   3859188.59      825.01966  (15121808)                490085.95
3859188.59      822.43808  (15121808)
        490135.95   3859188.59      744.51821  (15121808)                490185.95
3859188.59      654.71402  (20121324)
        490235.95   3859188.59      653.13441  (20121324)                490285.95
3859188.59      613.38846  (20121324)
        490335.95   3859188.59      546.11367  (20121324)                490385.95
3859188.59      478.07351  (15013024)
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000149 , L0000150 , L0000151 , L0000152 , L0000153 ,
L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 ,
L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,
L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
489935.95	3859238.59	815.69005	(16122521)	489985.95	3859238.59	826.47672	(15121808)
490035.95	3859238.59	851.75140	(15121808)	490085.95	3859238.59	818.46802	(15121808)
490135.95	3859238.59	724.87871	(15121808)	490185.95	3859238.59	697.29493	(20121324)
490235.95	3859238.59	671.98282	(20121324)	490285.95	3859238.59	605.81415	(20121324)
490335.95	3859238.59	527.83454	(15013024)	490385.95			

3859238.59 491.17982 (15013024)
490435.95 3859238.59 436.07039 (15013024) 490485.95
3859238.59 374.29298 (15013024)
490535.95 3859238.59 321.90775 (19111222) 490585.95
3859238.59 268.99566 (19111222)
490635.95 3859238.59 223.27370 (19111222) 490685.95
3859238.59 205.84219 (19111222)
490735.95 3859238.59 163.51481 (19111222) 490785.95
3859238.59 147.91701 (19111222)
490835.95 3859238.59 130.85340 (15031607) 490885.95
3859238.59 119.78653 (19021208)
489835.95 3859288.59 934.74265 (16010405) 489885.95
3859288.59 870.36227 (16010405)
489935.95 3859288.59 825.23033 (16122521) 489985.95
3859288.59 869.24326 (15121808)
490035.95 3859288.59 865.71562 (15121808) 490085.95
3859288.59 799.55019 (15121808)
490135.95 3859288.59 706.95590 (20121324) 490185.95
3859288.59 716.04459 (20121324)
490235.95 3859288.59 673.36395 (20121324) 490285.95
3859288.59 599.44336 (20121324)
490335.95 3859288.59 559.59593 (15013024) 490385.95
3859288.59 498.22696 (15013024)
490435.95 3859288.59 418.39301 (15013024) 490485.95
3859288.59 393.87253 (19111222)
490535.95 3859288.59 388.02337 (19111222) 490585.95
3859288.59 320.56459 (19111222)
490635.95 3859288.59 295.28858 (19111222) 490685.95
3859288.59 260.19194 (19111222)
490735.95 3859288.59 204.57540 (19111222) 490785.95
3859288.59 170.50920 (19111222)
490835.95 3859288.59 149.52153 (19021208) 490885.95
3859288.59 138.09036 (19021208)
489835.95 3859338.59 959.67057 (16010405) 489885.95
3859338.59 893.30643 (16122521)
489935.95 3859338.59 888.91119 (15121808) 489985.95
3859338.59 915.74168 (15121808)
490035.95 3859338.59 878.92026 (15121808) 490085.95
3859338.59 781.15389 (15121808)
490135.95 3859338.59 743.84295 (20121324) 490185.95
3859338.59 725.29718 (20121324)
490235.95 3859338.59 666.90056 (20121324) 490285.95
3859338.59 638.96238 (15013024)
490335.95 3859338.59 587.98702 (15013024) 490385.95
3859338.59 529.13433 (15013024)
490435.95 3859338.59 481.84309 (16010120) 490485.95
3859338.59 441.90598 (19111222)
490535.95 3859338.59 412.36310 (19111222) 490585.95
3859338.59 374.24659 (19111222)
490635.95 3859338.59 339.66418 (19111222) 490685.95

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3859338.59      285.42832  (19111222)
        490735.95   3859338.59      227.74752  (19111222)                490785.95
3859338.59      191.60541  (16031518)
        490835.95   3859338.59      184.58687  (18011120)                490885.95
3859338.59      164.00058  (18011120)
        489835.95   3859388.59      966.76373  (16010405)                489885.95
3859388.59      909.58024  (16122521)
        489935.95   3859388.59      967.46845  (15121808)                489985.95
3859388.59      952.28896  (15121808)
        490035.95   3859388.59      872.21118  (15121808)                490085.95
3859388.59      769.35325  (20121324)
        490135.95   3859388.59      766.31843  (20121324)                490185.95
3859388.59      720.91225  (20121324)
        490235.95   3859388.59      685.87114  (15013024)                490285.95
3859388.59      669.56172  (15013024)
        490335.95   3859388.59      614.80090  (15013024)                490385.95
3859388.59      568.39533  (16010120)
        490435.95   3859388.59      532.41281  (19111222)                490485.95
3859388.59      499.87428  (19111222)
        490535.95   3859388.59      457.93240  (19111222)                490585.95
3859388.59      411.04486  (19111222)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 810
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                 L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                 L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                 L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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490635.95 3859388.59 362.26406 (19111222) 490685.95
3859388.59 286.19353 (19111222)
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3859488.59 763.30513 (15020404)
490185.95 3859488.59 760.36434 (15013024) 490235.95
3859488.59 728.89710 (15013024)
490285.95 3859488.59 681.72904 (16010120) 490335.95
3859488.59 651.59861 (16010120)
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3859488.59 567.97564 (19111222)
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3859488.59 360.04786 (18011120)
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3859538.59 691.38746 (16010120)

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        490335.95   3859538.59      643.88129  (19111222)               490385.95
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 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                   PAGE 811
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                  L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
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490335.95	3859638.59	662.20960	(20120808)	490385.95	3859638.59	630.04161	(20120808)
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490535.95	3859638.59	523.19261	(18011120)	490585.95	3859638.59	520.23683	(18011120)
490635.95	3859638.59	501.89502	(18011120)	490685.95	3859638.59	476.38278	(18011120)
490735.95	3859638.59	450.11257	(19120108)	490785.95	3859638.59	426.63284	(19120108)
490835.95	3859638.59	405.06900	(18011120)	490885.95	3859638.59	386.54906	(18011120)
490135.95	3859688.59	776.83328	(16010120)	490185.95	3859688.59	717.48254	(16010120)
490235.95	3859688.59	707.42587	(20120808)	490285.95	3859688.59	683.87819	(20120808)
490335.95	3859688.59	654.87751	(20120808)	490385.95	3859688.59	611.04049	(20120808)
490435.95	3859688.59	575.41957	(20120808)	490485.95	3859688.59	555.09113	(18011120)
490535.95	3859688.59	551.41708	(18011120)	490585.95	3859688.59	539.38552	(18011120)
490635.95	3859688.59	527.13947	(19120108)	490685.95	3859688.59	512.11076	(19120108)
490735.95	3859688.59	484.25625	(19120108)	490785.95	3859688.59	454.42444	(19120108)
490835.95	3859688.59	432.06159	(19120108)	490885.95	3859688.59	431.45821	(19120108)
490085.95	3859738.59	819.41528	(16010120)	490135.95	3859738.59	755.49850	(16010120)
490185.95	3859738.59	717.47348	(20120808)	490235.95	3859738.59	685.89227	(20120808)
490285.95	3859738.59	671.84033	(20120808)	490335.95	3859738.59	627.24543	(20120808)
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490485.95	3859738.59	573.47250	(18011120)	490535.95	3859738.59	578.64352	(19120108)
490585.95	3859738.59	581.46818	(19120108)	490635.95			

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3859838.59      620.15602  (19120108)
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3859838.59      519.98388  (19120108)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 812
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000149    , L0000150
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, L0000151    , L0000152    , L0000153    ,
                L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
                L0000170    , L0000171    , L0000172    , L0000173    , L0000174
, L0000175    , L0000176    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3859988.59      668.67131  (19120108)
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 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
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                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                 L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                 L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                 L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   , L0000176   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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3860288.59 506.99685 (19011921)
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                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000149   , L0000150
, L0000151   , L0000152   , L0000153   ,
                  L0000154   , L0000155   , L0000156   , L0000157   , L0000158
, L0000159   , L0000160   , L0000161   ,
                  L0000162   , L0000163   , L0000164   , L0000165   , L0000166
, L0000167   , L0000168   , L0000169   ,
                  L0000170   , L0000171   , L0000172   , L0000173   , L0000174
, L0000175   , L0000176   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        490985.95   3860288.59   394.13894 (20010317)   491035.95
3860288.59   383.99296 (20010317)
        491085.95   3860288.59   373.12205 (20010317)   490135.95
3860338.59   766.52320 (19120108)
        490185.95   3860338.59   710.64981 (16010208)   490235.95
3860338.59   667.47062 (16010208)
        490285.95   3860338.59   623.62306 (16010208)   490335.95
3860338.59   593.90254 (18011822)
        490385.95   3860338.59   567.46923 (19011921)   490435.95
3860338.59   544.75710 (19011921)
        490485.95   3860338.59   521.29794 (19011921)   490535.95
3860338.59   497.82839 (15120221)
        490585.95   3860338.59   482.18958 (20010317)   490635.95
3860338.59   471.20982 (20010317)

490685.95 3860338.59 460.09035 (20010317) 490735.95
3860338.59 448.66643 (20010317)
490785.95 3860338.59 438.25488 (20010317) 490835.95
3860338.59 425.73952 (20010317)
490885.95 3860338.59 413.47953 (20010317) 490935.95
3860338.59 400.92320 (20010317)
490985.95 3860338.59 388.15776 (20010317) 491035.95
3860338.59 376.19936 (20010317)
491085.95 3860338.59 364.03557 (20010317) 490135.95
3860388.59 726.78296 (16010208)
490185.95 3860388.59 685.71471 (18011822) 490235.95
3860388.59 649.28489 (19011921)
490285.95 3860388.59 618.20124 (19011921) 490335.95
3860388.59 586.31693 (19011921)
490385.95 3860388.59 558.26658 (15120221) 490435.95
3860388.59 538.56156 (20010317)
490485.95 3860388.59 525.05512 (20010317) 490535.95
3860388.59 510.26976 (20010317)
490585.95 3860388.59 495.01047 (20010317) 490635.95
3860388.59 479.07888 (20010317)
490685.95 3860388.59 463.99952 (20010317) 490735.95
3860388.59 448.33433 (20010317)
490785.95 3860388.59 433.41737 (20010317) 490835.95
3860388.59 419.32644 (20010317)
490135.95 3860438.59 720.43298 (19011921) 490185.95
3860438.59 672.95998 (19011921)
490235.95 3860438.59 641.21777 (15120221) 490285.95
3860438.59 617.78536 (20010317)
490335.95 3860438.59 597.22652 (20010317) 490385.95
3860438.59 575.81604 (20010317)
490435.95 3860438.59 553.75081 (20010317) 490485.95
3860438.59 531.85619 (20010317)
490535.95 3860438.59 511.04655 (20010317) 490585.95
3860438.59 490.54074 (20010317)
490635.95 3860438.59 470.84459 (20010317) 490685.95
3860438.59 452.48842 (20010317)
490735.95 3860438.59 437.39470 (19122321) 490785.95
3860438.59 425.18898 (19122321)
490835.95 3860438.59 414.47284 (19122321) 490135.95
3860488.59 739.40815 (20120308)
490185.95 3860488.59 698.73815 (20010317) 490235.95
3860488.59 662.37761 (20010317)
490285.95 3860488.59 628.08547 (20010317) 490335.95
3860488.59 595.27223 (20010317)
490385.95 3860488.59 565.69867 (20010317) 490435.95
3860488.59 539.55033 (20010317)
490485.95 3860488.59 518.87692 (19122321) 490535.95
3860488.59 500.13084 (19122321)
490585.95 3860488.59 482.28381 (19122321) 490635.95
3860488.59 466.17606 (19122321)

3860588.59 582.36268 (19013104)
490385.95 3860588.59 557.89902 (19013104) 490435.95
3860588.59 540.08757 (19013104)
490485.95 3860588.59 521.16743 (19013104) 490535.95
3860588.59 501.93775 (19013104)
490585.95 3860588.59 478.47341 (19013104) 490635.95
3860588.59 462.61918 (19013104)
490685.95 3860588.59 447.35720 (19013104) 490735.95
3860588.59 433.31936 (19013104)
490785.95 3860588.59 419.69536 (19013104) 490135.95
3860638.59 731.98611 (18121424)
490185.95 3860638.59 687.97882 (18121424) 490235.95
3860638.59 645.36289 (18121424)
490285.95 3860638.59 611.50594 (18121424) 490335.95
3860638.59 584.63424 (18121424)
490385.95 3860638.59 559.29790 (18121424) 490435.95
3860638.59 535.40988 (18121424)
490485.95 3860638.59 514.89127 (18121424) 490535.95
3860638.59 497.99636 (18121424)
490585.95 3860638.59 478.87338 (18121424) 490635.95
3860638.59 462.94511 (18121424)
490685.95 3860638.59 447.42430 (18121424) 490735.95
3860638.59 431.84232 (18121424)
490785.95 3860638.59 419.02351 (18121424) 490135.95
3860688.59 745.49258 (15121708)
490185.95 3860688.59 705.17319 (15121708) 490235.95
3860688.59 660.64075 (15121708)
490285.95 3860688.59 613.33973 (15121708) 490335.95
3860688.59 587.03608 (15121708)
490385.95 3860688.59 562.02680 (15121708) 490435.95
3860688.59 537.27867 (15121708)
490485.95 3860688.59 513.73491 (15121708) 490535.95
3860688.59 495.42776 (15121708)
490585.95 3860688.59 478.96543 (15121708) 490635.95
3860688.59 464.15475 (15121708)
490685.95 3860688.59 451.23373 (15121708) 490735.95
3860688.59 437.28069 (15121708)
490785.95 3860688.59 426.26400 (15121708) 490135.95
3860738.59 777.25969 (20120308)
490185.95 3860738.59 726.13802 (20120308) 490235.95
3860738.59 685.36611 (20120308)
490285.95 3860738.59 650.41038 (20120308) 490335.95
3860738.59 618.56681 (20120308)
490385.95 3860738.59 590.69662 (20120308) 490435.95
3860738.59 570.94219 (20120308)
490485.95 3860738.59 543.51584 (20120308) 490535.95
3860738.59 514.64042 (20120308)
490585.95 3860738.59 494.12739 (20120308) 490635.95
3860738.59 477.32649 (20120308)
490685.95 3860738.59 464.52713 (20120308) 490735.95

3860738.59   452.43309 (20120308)
        490785.95   3860738.59   442.13373 (20120308)   490135.95
3860788.59   696.96379 (20120308)
        490185.95   3860788.59   676.41114 (20120308)   490235.95
3860788.59   654.11373 (20120308)
        490285.95   3860788.59   632.27273 (20120308)   490335.95
3860788.59   609.12673 (20120308)
        490385.95   3860788.59   592.36070 (20120308)   490435.95
3860788.59   571.60699 (20120308)
        490485.95   3860788.59   555.09712 (20120308)   490535.95
3860788.59   532.48456 (20120308)
        490585.95   3860788.59   507.02053 (20120308)   490635.95
3860788.59   488.85894 (20120308)
        490685.95   3860788.59   474.26354 (20120308)   490735.95
3860788.59   462.50555 (20120308)
        490785.95   3860788.59   448.54474 (20120308)   489985.95
3860838.59   769.59014 (18120708)
        490035.95   3860838.59   738.31272 (18120708)   490085.95
3860838.59   702.00038 (18120708)
        490135.95   3860838.59   660.53516 (18120708)   490185.95
3860838.59   623.25632 (19010319)
        490235.95   3860838.59   588.62491 (19010319)   490285.95
3860838.59   570.80837 (20120308)
        490335.95   3860838.59   558.59456 (20120308)   490385.95
3860838.59   547.04110 (20120308)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000149   , L0000150 , L0000151   , L0000152   , L0000153   ,
                 L0000154   , L0000155   , L0000156   , L0000157   , L0000158 , L0000159   , L0000160   , L0000161   ,
                 L0000162   , L0000163   , L0000164   , L0000165   , L0000166 , L0000167   , L0000168   , L0000169   ,
                 L0000170   , L0000171   , L0000172   , L0000173   , L0000174 , L0000175   , L0000176   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

```
      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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```
        490535.95   3860938.59      463.40478  (19010319)                490585.95
3860938.59      447.08128  (19010319)
        490635.95   3860938.59      434.49027  (20120308)                490685.95
3860938.59      424.49122  (20120308)
        490735.95   3860938.59      415.27005  (20120308)                490785.95
3860938.59      406.85203  (20120308)
        490835.95   3860938.59      401.25674  (20120308)                490885.95
3860938.59      396.41409  (20120308)
        490935.95   3860938.59      389.12798  (20120308)                489835.95
3860988.59      848.00898  (18120708)
        489885.95   3860988.59      792.87554  (18120708)                489935.95
3860988.59      728.15129  (16010507)
        489985.95   3860988.59      699.34868  (20120718)                490035.95
3860988.59      671.64153  (20022720)
        490085.95   3860988.59      638.37714  (20022720)                490135.95
3860988.59      596.27201  (20022720)
        490185.95   3860988.59      565.31004  (18120921)                490235.95
3860988.59      551.54454  (18120921)
        490285.95   3860988.59      535.78976  (18120921)                490335.95
3860988.59      518.02074  (18120921)
        490385.95   3860988.59      498.54755  (18120921)                490435.95
3860988.59      487.18293  (18120708)
        490485.95   3860988.59      476.52931  (18120708)                490535.95
3860988.59      462.54847  (18120708)
        490585.95   3860988.59      447.99248  (18120708)                490635.95
3860988.59      433.83745  (18120708)
        490685.95   3860988.59      417.98954  (18120708)                490735.95
3860988.59      404.42725  (19010319)
        490785.95   3860988.59      393.73831  (19010319)                490835.95
3860988.59      384.45507  (19010319)
        490885.95   3860988.59      376.42791  (19010319)                490935.95
3860988.59      366.47914  (19010319)
        489835.95   3861038.59      790.70237  (16122308)                489885.95
3861038.59      723.52402  (16122308)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                      ***        01:16:45

                                   PAGE 817
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000149    , L0000150
, L0000151    , L0000152    , L0000153    ,
                  L0000154    , L0000155    , L0000156    , L0000157    , L0000158
, L0000159    , L0000160    , L0000161    ,
                  L0000162    , L0000163    , L0000164    , L0000165    , L0000166
, L0000167    , L0000168    , L0000169    ,
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L0000170 , L0000171 , L0000172 , L0000173 , L0000174
, L0000175 , L0000176 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
489935.95	3861038.59	688.11528	(16010507)	489985.95	3861038.59	671.66953	(16010507)
490035.95	3861038.59	651.51743	(16010507)	490085.95	3861038.59	627.54388	(20120718)
490135.95	3861038.59	603.80350	(20022720)	490185.95	3861038.59	575.85527	(20022720)
490235.95	3861038.59	545.76368	(20022720)	490285.95	3861038.59	513.69403	(18120921)
490335.95	3861038.59	502.79610	(18120921)	490385.95	3861038.59	494.43825	(18120921)
490435.95	3861038.59	483.79209	(18120921)	490485.95	3861038.59	468.64534	(18120921)
490535.95	3861038.59	451.36831	(18120921)	490585.95	3861038.59	438.36814	(18120708)
490635.95	3861038.59	427.75179	(18120708)	490685.95	3861038.59	416.71457	(18120708)
490735.95	3861038.59	405.58681	(18120708)	490785.95	3861038.59	395.08935	(18120708)
490835.95	3861038.59	385.05815	(18120708)	490885.95	3861038.59	374.94776	(18120708)
490935.95	3861038.59	366.16170	(19010319)	489835.95	3861088.59	794.33961	(16122308)
489885.95	3861088.59	733.69264	(16122308)	489935.95	3861088.59	681.71384	(20120718)
489985.95	3861088.59	651.12112	(16010507)	490035.95	3861088.59	631.13473	(16010507)
490085.95	3861088.59	614.75922	(16010507)	490135.95	3861088.59	596.05766	(20120718)
490185.95	3861088.59	580.82906	(20120718)	490235.95	3861088.59	556.64540	(20022720)
490285.95	3861088.59	531.53539	(20022720)	490335.95	3861088.59	504.61624	(20022720)
490385.95	3861088.59	483.52487	(20022720)	490435.95	3861088.59	471.10581	(18120921)
490485.95	3861088.59	461.65333	(18120921)	490535.95	3861088.59	452.21706	(18120921)
490585.95	3861088.59	438.56310	(18120921)	490635.95			

3861088.59   423.12472 (18120921)
        490685.95   3861088.59   409.14084 (18120921)   490735.95
3861088.59   398.07202 (18120708)
        490785.95   3861088.59   390.77737 (18120708)   490835.95
3861088.59   383.25333 (18120708)
        490885.95   3861088.59   375.56054 (18120708)   490935.95
3861088.59   368.21114 (18120708)
        489020.79   3862564.85   481.78542 (18010720)   489043.15
3862350.21   546.86442 (18010720)
        489072.96   3862287.60   577.36529 (16122819)   488980.55
3862078.92   590.72987 (19122903)
        489037.19   3862822.72   444.28328 (16122819)   489120.66
3863016.49   474.05228 (20022108)
        489037.19   3863350.37   432.32662 (20022108)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                      *** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
             **

                      NETWORK
GROUP ID   AVERAGE CONC   RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
- - - -

```
  669.27,    0.00)  DC
         8TH HIGHEST VALUE IS      12.99773 AT (  489935.95,  3860938.59,   668.31,
  668.31,    0.00)  DC
         9TH HIGHEST VALUE IS      12.94712 AT (  489835.95,  3860988.59,   667.96,
  667.96,    0.00)  DC
        10TH HIGHEST VALUE IS      12.81644 AT (  489985.95,  3860888.59,   669.05,
  669.05,    0.00)  DC

 LOADING2  1ST HIGHEST VALUE IS       9.10801 AT (  490135.95,  3860688.59,   674.40,
  675.87,    0.00)  DC
         2ND HIGHEST VALUE IS       8.90350 AT (  489985.95,  3860838.59,   669.27,
  669.27,    0.00)  DC
         3RD HIGHEST VALUE IS       8.84153 AT (  490135.95,  3860638.59,   675.50,
  678.17,    0.00)  DC
         4TH HIGHEST VALUE IS       8.68164 AT (  490135.95,  3860738.59,   672.66,
  672.66,    0.00)  DC
         5TH HIGHEST VALUE IS       8.30946 AT (  489835.95,  3860888.59,   668.65,
  668.65,    0.00)  DC
         6TH HIGHEST VALUE IS       8.22375 AT (  490185.95,  3860688.59,   675.84,
  677.33,    0.00)  DC
         7TH HIGHEST VALUE IS       8.14676 AT (  490035.95,  3860838.59,   669.54,
  669.54,    0.00)  DC
         8TH HIGHEST VALUE IS       7.92402 AT (  489885.95,  3860888.59,   668.72,
  668.72,    0.00)  DC
         9TH HIGHEST VALUE IS       7.91304 AT (  490185.95,  3860638.59,   674.59,
  674.59,    0.00)  DC
        10TH HIGHEST VALUE IS       7.85622 AT (  490135.95,  3860588.59,   675.01,
  678.17,    0.00)  DC

 LOADING3  1ST HIGHEST VALUE IS       9.34461 AT (  490135.95,  3860588.59,   675.01,
  678.17,    0.00)  DC
         2ND HIGHEST VALUE IS       9.18045 AT (  490135.95,  3860638.59,   675.50,
  678.17,    0.00)  DC
         3RD HIGHEST VALUE IS       8.83145 AT (  490135.95,  3860538.59,   674.65,
  674.65,    0.00)  DC
         4TH HIGHEST VALUE IS       8.52585 AT (  490135.95,  3860688.59,   674.40,
  675.87,    0.00)  DC
         5TH HIGHEST VALUE IS       8.28408 AT (  490185.95,  3860588.59,   672.89,
  672.89,    0.00)  DC
         6TH HIGHEST VALUE IS       8.19177 AT (  490185.95,  3860638.59,   674.59,
  674.59,    0.00)  DC
         7TH HIGHEST VALUE IS       7.96637 AT (  490185.95,  3860538.59,   675.09,
  675.09,    0.00)  DC
         8TH HIGHEST VALUE IS       7.74244 AT (  490135.95,  3860488.59,   674.89,
  674.89,    0.00)  DC
         9TH HIGHEST VALUE IS       7.67010 AT (  490185.95,  3860688.59,   675.84,
  677.33,    0.00)  DC
        10TH HIGHEST VALUE IS       7.53494 AT (  490135.95,  3860738.59,   672.66,
  672.66,    0.00)  DC
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LOADING4 1ST HIGHEST VALUE IS   9.36490 AT (490135.95, 3860438.59,   675.04,
  675.04,   0.00) DC
         2ND HIGHEST VALUE IS   9.10268 AT (490135.95, 3860488.59,   674.89,
  674.89,   0.00) DC
         3RD HIGHEST VALUE IS   8.96838 AT (490135.95, 3860388.59,   675.71,
  675.71,   0.00) DC
         4TH HIGHEST VALUE IS   8.39806 AT (490135.95, 3860538.59,   674.65,
  674.65,   0.00) DC
         5TH HIGHEST VALUE IS   8.35751 AT (490185.95, 3860438.59,   675.15,
  675.15,   0.00) DC
         6TH HIGHEST VALUE IS   8.13281 AT (490185.95, 3860488.59,   674.86,
  674.86,   0.00) DC
         7TH HIGHEST VALUE IS   8.06873 AT (490185.95, 3860388.59,   675.53,
  675.53,   0.00) DC
         8TH HIGHEST VALUE IS   7.94592 AT (490135.95, 3860338.59,   676.17,
  676.17,   0.00) DC
         9TH HIGHEST VALUE IS   7.56470 AT (490185.95, 3860538.59,   675.09,
  675.09,   0.00) DC
        10TH HIGHEST VALUE IS   7.51237 AT (490235.95, 3860438.59,   675.08,
  675.08,   0.00) DC

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD (43848
HRS) RESULTS ***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
             **

                     NETWORK
GROUP ID   AVERAGE CONC   RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG) OF TYPE GRID-ID
- -
- - - - - - - - - - - - - - - - - - -

LOADING5 1ST HIGHEST VALUE IS   9.33839 AT (490135.95, 3860338.59,   676.17,
  676.17,   0.00) DC
         2ND HIGHEST VALUE IS   9.20974 AT (490135.95, 3860388.59,   675.71,
  675.71,   0.00) DC
         3RD HIGHEST VALUE IS   8.78713 AT (490135.95, 3860288.59,   676.60,
  676.60,   0.00) DC
         4TH HIGHEST VALUE IS   8.58507 AT (490135.95, 3860438.59,   675.04,
  675.04,   0.00) DC

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          5TH HIGHEST VALUE IS       8.34225 AT (  490185.95,  3860338.59,   676.07,
  676.07,    0.00)  DC
          6TH HIGHEST VALUE IS       8.22205 AT (  490185.95,  3860388.59,   675.53,
  675.53,    0.00)  DC
          7TH HIGHEST VALUE IS       7.93021 AT (  490185.95,  3860288.59,   676.50,
  676.50,    0.00)  DC
          8TH HIGHEST VALUE IS       7.71360 AT (  490185.95,  3860438.59,   675.15,
  675.15,    0.00)  DC
          9TH HIGHEST VALUE IS       7.66616 AT (  490135.95,  3860238.59,   677.04,
  677.04,    0.00)  DC
         10TH HIGHEST VALUE IS       7.66571 AT (  490135.95,  3860488.59,   674.89,
  674.89,    0.00)  DC

LOADING6  1ST HIGHEST VALUE IS       9.19381 AT (  490135.95,  3860188.59,   677.56,
  677.56,    0.00)  DC
          2ND HIGHEST VALUE IS       8.89410 AT (  490135.95,  3860238.59,   677.04,
  677.04,    0.00)  DC
          3RD HIGHEST VALUE IS       8.83151 AT (  490135.95,  3860138.59,   677.92,
  677.92,    0.00)  DC
          4TH HIGHEST VALUE IS       8.22111 AT (  490185.95,  3860188.59,   677.60,
  677.60,    0.00)  DC
          5TH HIGHEST VALUE IS       8.16931 AT (  490135.95,  3860288.59,   676.60,
  676.60,    0.00)  DC
          6TH HIGHEST VALUE IS       7.96732 AT (  490185.95,  3860238.59,   677.10,
  677.10,    0.00)  DC
          7TH HIGHEST VALUE IS       7.95981 AT (  490185.95,  3860138.59,   677.98,
  677.98,    0.00)  DC
          8TH HIGHEST VALUE IS       7.85559 AT (  490135.95,  3860088.59,   678.38,
  678.38,    0.00)  DC
          9TH HIGHEST VALUE IS       7.37743 AT (  490235.95,  3860188.59,   677.20,
  677.20,    0.00)  DC
         10TH HIGHEST VALUE IS       7.36725 AT (  490185.95,  3860288.59,   676.50,
  676.50,    0.00)  DC

ONSITE    1ST HIGHEST VALUE IS      17.55818 AT (  489662.66,  3860915.95,   668.14,
  668.14,    0.00)  DC
          2ND HIGHEST VALUE IS       9.83787 AT (  489835.95,  3860888.59,   668.65,
  668.65,    0.00)  DC
          3RD HIGHEST VALUE IS       8.37777 AT (  489885.95,  3860888.59,   668.72,
  668.72,    0.00)  DC
          4TH HIGHEST VALUE IS       7.80022 AT (  489835.95,  3860938.59,   668.15,
  668.15,    0.00)  DC
          5TH HIGHEST VALUE IS       7.28366 AT (  489935.95,  3860888.59,   668.81,
  668.81,    0.00)  DC
          6TH HIGHEST VALUE IS       7.04882 AT (  489985.95,  3860838.59,   669.27,
  669.27,    0.00)  DC
          7TH HIGHEST VALUE IS       6.84706 AT (  489885.95,  3860938.59,   668.11,
  668.11,    0.00)  DC
          8TH HIGHEST VALUE IS       6.44547 AT (  489985.95,  3860888.59,   669.05,
  669.05,    0.00)  DC
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         9TH HIGHEST VALUE IS       6.30560 AT (  490035.95,  3860838.59,   669.54,
  669.54,    0.00)  DC
        10TH HIGHEST VALUE IS       6.10505 AT (  489935.95,  3860938.59,   668.31,
  668.31,    0.00)  DC

SLINE1    1ST HIGHEST VALUE IS       8.41647 AT (  489237.26,  3859588.09,   680.60,
  680.60,    0.00)  GC  UCART1
         2ND HIGHEST VALUE IS       8.40884 AT (  489237.26,  3859568.67,   680.80,
  680.80,    0.00)  GC  UCART1
         3RD HIGHEST VALUE IS       8.39186 AT (  489237.26,  3859685.19,   680.00,
  680.00,    0.00)  GC  UCART1
         4TH HIGHEST VALUE IS       8.38645 AT (  489237.26,  3859704.61,   679.90,
  679.90,    0.00)  GC  UCART1
         5TH HIGHEST VALUE IS       8.38289 AT (  489237.26,  3859724.03,   679.80,
  679.80,    0.00)  GC  UCART1
         6TH HIGHEST VALUE IS       8.37757 AT (  489237.26,  3859743.45,   679.70,
  679.70,    0.00)  GC  UCART1
         7TH HIGHEST VALUE IS       8.36947 AT (  489237.26,  3859762.87,   679.70,
  679.70,    0.00)  GC  UCART1
         8TH HIGHEST VALUE IS       8.36275 AT (  489237.26,  3859782.29,   679.70,
  679.70,    0.00)  GC  UCART1
         9TH HIGHEST VALUE IS       8.35204 AT (  489237.26,  3859801.71,   679.60,
  679.60,    0.00)  GC  UCART1
        10TH HIGHEST VALUE IS       8.35140 AT (  489237.26,  3859821.13,   679.40,
  679.40,    0.00)  GC  UCART1
 *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***       07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***       01:16:45

                                 PAGE 820
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                     *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
             **


                      NETWORK
GROUP ID                     AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

TRUCK1    1ST HIGHEST VALUE IS      31.85147 AT (  489317.74,  3861109.28,   668.49,
  668.49,    0.00)  DC
         2ND HIGHEST VALUE IS      25.54233 AT (  489385.87,  3861014.75,   668.28,
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  668.28,    0.00)  DC
         3RD HIGHEST VALUE IS      21.73559 AT (  489372.24,  3861112.69,   668.68,
  668.68,    0.00)  DC
         4TH HIGHEST VALUE IS      19.98904 AT (  489436.12,  3861037.74,   667.76,
  667.76,    0.00)  DC
         5TH HIGHEST VALUE IS      17.53742 AT (  489420.79,  3861106.73,   668.49,
  668.49,    0.00)  DC
         6TH HIGHEST VALUE IS      16.62385 AT (  489488.07,  3861036.89,   668.30,
  668.30,    0.00)  DC
         7TH HIGHEST VALUE IS      13.79004 AT (  489473.59,  3861110.99,   668.54,
  668.54,    0.00)  DC
         8TH HIGHEST VALUE IS      11.27717 AT (  489662.66,  3860915.95,   668.14,
  668.14,    0.00)  DC
         9TH HIGHEST VALUE IS      11.14559 AT (  489386.10,  3861172.96,   668.60,
  668.60,    0.00)  GC  UCART4
        10TH HIGHEST VALUE IS      10.51311 AT (  489431.01,  3861167.20,   669.12,
  669.12,    0.00)  DC

TRUCK2    1ST HIGHEST VALUE IS      10.62448 AT (  489431.01,  3861167.20,   669.12,
  669.12,    0.00)  DC
         2ND HIGHEST VALUE IS      10.33156 AT (  489833.22,  3861172.96,   667.00,
  667.00,    0.00)  GC  UCART4
         3RD HIGHEST VALUE IS      10.32371 AT (  489907.74,  3861172.96,   666.80,
  666.80,    0.00)  GC  UCART4
         4TH HIGHEST VALUE IS      10.29735 AT (  489982.26,  3861172.96,   666.60,
  666.60,    0.00)  GC  UCART4
         5TH HIGHEST VALUE IS      10.27632 AT (  490056.78,  3861172.96,   666.60,
  666.60,    0.00)  GC  UCART4
         6TH HIGHEST VALUE IS      10.19242 AT (  489758.70,  3861172.96,   666.60,
  666.60,    0.00)  GC  UCART4
         7TH HIGHEST VALUE IS      10.01842 AT (  490205.82,  3861172.96,   666.50,
  666.50,    0.00)  GC  UCART4
         8TH HIGHEST VALUE IS      10.00027 AT (  489684.18,  3861172.96,   666.40,
  666.40,    0.00)  GC  UCART4
         9TH HIGHEST VALUE IS       9.96875 AT (  490131.30,  3861172.96,   666.00,
  666.00,    0.00)  GC  UCART4
        10TH HIGHEST VALUE IS       9.96133 AT (  490280.34,  3861172.96,   666.60,
  666.60,    0.00)  GC  UCART4

TRUCK3    1ST HIGHEST VALUE IS       7.18217 AT (  489386.10,  3861575.20,   664.70,
  664.70,    0.00)  GC  UCART4
         2ND HIGHEST VALUE IS       7.17473 AT (  489386.10,  3861550.06,   665.10,
  665.10,    0.00)  GC  UCART4
         3RD HIGHEST VALUE IS       7.14493 AT (  489386.10,  3861524.92,   665.20,
  665.20,    0.00)  GC  UCART4
         4TH HIGHEST VALUE IS       7.10991 AT (  489386.10,  3861499.78,   665.30,
  665.30,    0.00)  GC  UCART4
         5TH HIGHEST VALUE IS       7.06922 AT (  489386.10,  3861474.64,   665.40,
  665.40,    0.00)  GC  UCART4
         6TH HIGHEST VALUE IS       7.04783 AT (  489386.10,  3861650.62,   662.20,
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  662.20,    0.00)  GC  UCART4
         7TH HIGHEST VALUE IS       7.04675 AT (  489386.10,  3861625.48,   662.70,
  662.70,    0.00)  GC  UCART4
         8TH HIGHEST VALUE IS       7.01757 AT (  489386.10,  3861600.34,   663.00,
  663.00,    0.00)  GC  UCART4
         9TH HIGHEST VALUE IS       7.00134 AT (  489386.10,  3861675.76,   661.60,
  661.60,    0.00)  GC  UCART4
        10TH HIGHEST VALUE IS       6.99671 AT (  489386.10,  3861449.50,   665.30,
  665.30,    0.00)  GC  UCART4

ALL       1ST HIGHEST VALUE IS      84.37473 AT (  489662.66,  3860915.95,   668.14,
  668.14,    0.00)  DC
         2ND HIGHEST VALUE IS      58.36540 AT (  489835.95,  3860888.59,   668.65,
  668.65,    0.00)  DC
         3RD HIGHEST VALUE IS      52.46404 AT (  489885.95,  3860888.59,   668.72,
  668.72,    0.00)  DC
         4TH HIGHEST VALUE IS      51.74228 AT (  489385.87,  3861014.75,   668.28,
  668.28,    0.00)  DC
         5TH HIGHEST VALUE IS      51.26447 AT (  489317.74,  3861109.28,   668.49,
  668.49,    0.00)  DC
         6TH HIGHEST VALUE IS      48.71542 AT (  489985.95,  3860838.59,   669.27,
  669.27,    0.00)  DC
         7TH HIGHEST VALUE IS      48.54972 AT (  489835.95,  3860938.59,   668.15,
  668.15,    0.00)  DC
         8TH HIGHEST VALUE IS      47.74568 AT (  489935.95,  3860888.59,   668.81,
  668.81,    0.00)  DC
         9TH HIGHEST VALUE IS      47.14691 AT (  490135.95,  3860588.59,   675.01,
  678.17,    0.00)  DC
        10TH HIGHEST VALUE IS      46.98316 AT (  490135.95,  3860638.59,   675.50,
  678.17,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\dlarocca\Desktop\Lakes Files\15054
Lennwood\Lennwood\Lennwo ***        07/17/24
 *** AERMET - VERSION  19191 ***   ***
                       ***        01:16:45

                                  PAGE 821
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
             **
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GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
LOADING1 HIGH	1ST HIGH VALUE IS	1010.06830	ON 15020408: AT (	489662.66, 3860915.95,	668.14, 668.14, 0.00) DC
LOADING2 HIGH	1ST HIGH VALUE IS	437.95631	ON 19020204: AT (	489835.95, 3860888.59,	668.65, 668.65, 0.00) DC
LOADING3 HIGH	1ST HIGH VALUE IS	388.25310	ON 20120308: AT (	490135.95, 3860688.59,	674.40, 675.87, 0.00) DC
LOADING4 HIGH	1ST HIGH VALUE IS	390.87880	ON 20120308: AT (	490135.95, 3860538.59,	674.65, 674.65, 0.00) DC
LOADING5 HIGH	1ST HIGH VALUE IS	388.59998	ON 20120308: AT (	490135.95, 3860438.59,	675.04, 675.04, 0.00) DC
LOADING6 HIGH	1ST HIGH VALUE IS	503.01353	ON 16010219: AT (	489237.26, 3859957.07,	679.90, 679.90, 0.00) GC UCART1
ONSITE HIGH	1ST HIGH VALUE IS	324.14436	ON 20040918: AT (	489546.06, 3859957.07,	687.30, 689.70, 0.00) GC UCART1
SLINE1 HIGH	1ST HIGH VALUE IS	172.14931	ON 16010404: AT (	489181.06, 3858406.38,	687.30, 687.30, 0.00) GC UCART3
TRUCK1 HIGH	1ST HIGH VALUE IS	643.05625	ON 18010720: AT (	489165.81, 3861208.80,	667.11, 667.11, 0.00) DC
TRUCK2 HIGH	1ST HIGH VALUE IS	202.89441	ON 16010404: AT (	489431.01, 3861167.20,	669.12, 669.12, 0.00) DC
TRUCK3 HIGH	1ST HIGH VALUE IS	278.16841	ON 16122922: AT (	489165.81, 3861208.80,	667.11, 667.11, 0.00) DC
ALL HIGH	1ST HIGH VALUE IS	1988.41710	ON 20040918: AT (	489372.36, 3859957.07,	682.10, 682.10, 0.00) GC UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   4 Warning Message(s)
 A Total of   637 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   191 Calm Hours Identified

 A Total of   446 Missing Hours Identified (1.02 Percent)

    ******** FATAL ERROR MESSAGES ********
               *** NONE ***

    ********   WARNING MESSAGES   ********
 ME W186   3130   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187   3130   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W450   17545   CHKDAT: Record Out of Sequence in Meteorological File at:
 18010101
 MX W450   17545   CHKDAT: Record Out of Sequence in Meteorological File at:
1 year gap

    ****
    *** AERMOD Finishes Successfully ***
    ****

HARP2 - HRACalc (dated 22118) 7/17/2024 10:50:39 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
C:\Users\dlarocca\Desktop\HARP2 Files\LENWOODOP\hra\OperationCancerCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\dlarocca\Desktop\HARP2
Files\LENWOODOP\hra\OperationCancerCancerRiskSumByRec.csv
HRA ran successfully

*HARP - HRACalc v22118 7/17/2024 10:50:39 AM - Cancer Risk - Input File: C:\Users\dlarocca\Desktop\HARP2 Files\LENWOODOP\hra\OperationCancerHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
1	ALL	UCART1	489237.3	3859569	2.05E-06	30YrCance	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL	UCART1	489256.6	3859569	1.77E-06	30YrCance	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL	UCART1	489275.9	3859569	1.55E-06	30YrCance	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL	UCART1	489295.2	3859569	1.38E-06	30YrCance	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL	UCART1	489314.5	3859569	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL	UCART1	489333.8	3859569	1.13E-06	30YrCance	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL	UCART1	489353.1	3859569	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL	UCART1	489372.4	3859569	9.65E-07	30YrCance	9.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL	UCART1	489391.7	3859569	9.02E-07	30YrCance	9.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL	UCART1	489411	3859569	8.49E-07	30YrCance	8.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL	UCART1	489430.3	3859569	8.03E-07	30YrCance	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL	UCART1	489449.6	3859569	7.63E-07	30YrCance	7.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL	UCART1	489468.9	3859569	7.27E-07	30YrCance	7.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL	UCART1	489488.2	3859569	6.96E-07	30YrCance	6.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL	UCART1	489507.5	3859569	6.68E-07	30YrCance	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL	UCART1	489526.8	3859569	6.42E-07	30YrCance	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL	UCART1	489546.1	3859569	6.20E-07	30YrCance	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL	UCART1	489565.4	3859569	6.00E-07	30YrCance	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL	UCART1	489584.7	3859569	5.82E-07	30YrCance	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL	UCART1	489604	3859569	5.64E-07	30YrCance	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL	UCART1	489623.3	3859569	5.47E-07	30YrCance	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL	UCART1	489237.3	3859588	2.06E-06	30YrCance	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL	UCART1	489256.6	3859588	1.78E-06	30YrCance	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL	UCART1	489275.9	3859588	1.55E-06	30YrCance	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL	UCART1	489295.2	3859588	1.38E-06	30YrCance	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL	UCART1	489314.5	3859588	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL	UCART1	489333.8	3859588	1.13E-06	30YrCance	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL	UCART1	489353.1	3859588	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL	UCART1	489372.4	3859588	9.69E-07	30YrCance	9.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL	UCART1	489391.7	3859588	9.06E-07	30YrCance	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL	UCART1	489411	3859588	8.53E-07	30YrCance	8.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL	UCART1	489430.3	3859588	8.07E-07	30YrCance	8.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL	UCART1	489449.6	3859588	7.67E-07	30YrCance	7.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL	UCART1	489468.9	3859588	7.32E-07	30YrCance	7.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL	UCART1	489488.2	3859588	7.01E-07	30YrCance	7.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL	UCART1	489507.5	3859588	6.73E-07	30YrCance	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL	UCART1	489526.8	3859588	6.47E-07	30YrCance	6.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL	UCART1	489546.1	3859588	6.24E-07	30YrCance	6.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL	UCART1	489565.4	3859588	6.04E-07	30YrCance	6.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL	UCART1	489584.7	3859588	5.85E-07	30YrCance	5.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL	UCART1	489604	3859588	5.67E-07	30YrCance	5.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL	UCART1	489623.3	3859588	5.51E-07	30YrCance	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL	UCART1	489237.3	3859608	2.05E-06	30YrCance	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

44	ALL	UCART1	489256.6	3859608	1.78E-06	30YrCance	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL	UCART1	489275.9	3859608	1.56E-06	30YrCance	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL	UCART1	489295.2	3859608	1.38E-06	30YrCance	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL	UCART1	489314.5	3859608	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL	UCART1	489333.8	3859608	1.14E-06	30YrCance	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL	UCART1	489353.1	3859608	1.05E-06	30YrCance	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL	UCART1	489372.4	3859608	9.73E-07	30YrCance	9.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL	UCART1	489391.7	3859608	9.10E-07	30YrCance	9.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL	UCART1	489411	3859608	8.57E-07	30YrCance	8.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL	UCART1	489430.3	3859608	8.12E-07	30YrCance	8.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL	UCART1	489449.6	3859608	7.72E-07	30YrCance	7.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL	UCART1	489468.9	3859608	7.37E-07	30YrCance	7.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL	UCART1	489488.2	3859608	7.05E-07	30YrCance	7.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL	UCART1	489507.5	3859608	6.77E-07	30YrCance	6.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL	UCART1	489526.8	3859608	6.52E-07	30YrCance	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL	UCART1	489546.1	3859608	6.29E-07	30YrCance	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL	UCART1	489565.4	3859608	6.08E-07	30YrCance	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL	UCART1	489584.7	3859608	5.89E-07	30YrCance	5.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL	UCART1	489604	3859608	5.71E-07	30YrCance	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL	UCART1	489623.3	3859608	5.55E-07	30YrCance	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL	UCART1	489237.3	3859627	2.05E-06	30YrCance	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL	UCART1	489256.6	3859627	1.78E-06	30YrCance	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL	UCART1	489275.9	3859627	1.56E-06	30YrCance	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL	UCART1	489295.2	3859627	1.39E-06	30YrCance	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL	UCART1	489314.5	3859627	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL	UCART1	489333.8	3859627	1.14E-06	30YrCance	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL	UCART1	489353.1	3859627	1.05E-06	30YrCance	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL	UCART1	489372.4	3859627	9.78E-07	30YrCance	9.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL	UCART1	489391.7	3859627	9.15E-07	30YrCance	9.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL	UCART1	489411	3859627	8.61E-07	30YrCance	8.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL	UCART1	489430.3	3859627	8.15E-07	30YrCance	8.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL	UCART1	489449.6	3859627	7.77E-07	30YrCance	7.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL	UCART1	489468.9	3859627	7.41E-07	30YrCance	7.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL	UCART1	489488.2	3859627	7.09E-07	30YrCance	7.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL	UCART1	489507.5	3859627	6.80E-07	30YrCance	6.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL	UCART1	489526.8	3859627	6.56E-07	30YrCance	6.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL	UCART1	489546.1	3859627	6.32E-07	30YrCance	6.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL	UCART1	489565.4	3859627	6.11E-07	30YrCance	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL	UCART1	489584.7	3859627	5.92E-07	30YrCance	5.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL	UCART1	489604	3859627	5.74E-07	30YrCance	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL	UCART1	489623.3	3859627	5.59E-07	30YrCance	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL	UCART1	489237.3	3859646	2.06E-06	30YrCance	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL	UCART1	489256.6	3859646	1.79E-06	30YrCance	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL	UCART1	489275.9	3859646	1.57E-06	30YrCance	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL	UCART1	489295.2	3859646	1.39E-06	30YrCance	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

89	ALL	UCART1	489314.5	3859646	1.26E-06	30YrCance	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	UCART1	489333.8	3859646	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	UCART1	489353.1	3859646	1.06E-06	30YrCance	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	UCART1	489372.4	3859646	9.82E-07	30YrCance	9.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	UCART1	489391.7	3859646	9.19E-07	30YrCance	9.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	UCART1	489411	3859646	8.66E-07	30YrCance	8.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	UCART1	489430.3	3859646	8.20E-07	30YrCance	8.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	UCART1	489449.6	3859646	7.81E-07	30YrCance	7.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	UCART1	489468.9	3859646	7.46E-07	30YrCance	7.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	UCART1	489488.2	3859646	7.13E-07	30YrCance	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	UCART1	489507.5	3859646	6.83E-07	30YrCance	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	UCART1	489526.8	3859646	6.60E-07	30YrCance	6.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	UCART1	489546.1	3859646	6.36E-07	30YrCance	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	UCART1	489565.4	3859646	6.14E-07	30YrCance	6.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	UCART1	489584.7	3859646	5.96E-07	30YrCance	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	UCART1	489604	3859646	5.78E-07	30YrCance	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	UCART1	489623.3	3859646	5.64E-07	30YrCance	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	UCART1	489237.3	3859666	2.07E-06	30YrCance	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	UCART1	489256.6	3859666	1.79E-06	30YrCance	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	UCART1	489275.9	3859666	1.57E-06	30YrCance	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	UCART1	489295.2	3859666	1.39E-06	30YrCance	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	UCART1	489314.5	3859666	1.26E-06	30YrCance	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	UCART1	489333.8	3859666	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	UCART1	489353.1	3859666	1.06E-06	30YrCance	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	UCART1	489372.4	3859666	9.87E-07	30YrCance	9.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	UCART1	489391.7	3859666	9.24E-07	30YrCance	9.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	UCART1	489411	3859666	8.71E-07	30YrCance	8.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	UCART1	489430.3	3859666	8.26E-07	30YrCance	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	UCART1	489449.6	3859666	7.87E-07	30YrCance	7.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	UCART1	489468.9	3859666	7.51E-07	30YrCance	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	UCART1	489488.2	3859666	7.18E-07	30YrCance	7.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	UCART1	489507.5	3859666	6.88E-07	30YrCance	6.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	UCART1	489526.8	3859666	6.65E-07	30YrCance	6.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	UCART1	489546.1	3859666	6.40E-07	30YrCance	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	UCART1	489565.4	3859666	6.19E-07	30YrCance	6.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	UCART1	489584.7	3859666	6.00E-07	30YrCance	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	UCART1	489604	3859666	5.83E-07	30YrCance	5.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	UCART1	489623.3	3859666	5.69E-07	30YrCance	5.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	UCART1	489237.3	3859685	2.08E-06	30YrCance	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	UCART1	489256.6	3859685	1.80E-06	30YrCance	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	UCART1	489275.9	3859685	1.58E-06	30YrCance	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	UCART1	489295.2	3859685	1.40E-06	30YrCance	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	UCART1	489314.5	3859685	1.27E-06	30YrCance	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	UCART1	489333.8	3859685	1.16E-06	30YrCance	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	UCART1	489353.1	3859685	1.07E-06	30YrCance	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

134	ALL	UCART1	489372.4	3859685	9.93E-07	30YrCance	9.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	UCART1	489391.7	3859685	9.31E-07	30YrCance	9.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	UCART1	489411	3859685	8.78E-07	30YrCance	8.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	UCART1	489430.3	3859685	8.32E-07	30YrCance	8.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	UCART1	489449.6	3859685	7.93E-07	30YrCance	7.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	UCART1	489468.9	3859685	7.57E-07	30YrCance	7.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	UCART1	489488.2	3859685	7.23E-07	30YrCance	7.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	UCART1	489507.5	3859685	6.92E-07	30YrCance	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	UCART1	489526.8	3859685	6.69E-07	30YrCance	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	UCART1	489546.1	3859685	6.45E-07	30YrCance	6.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	UCART1	489565.4	3859685	6.24E-07	30YrCance	6.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	UCART1	489584.7	3859685	6.05E-07	30YrCance	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	UCART1	489604	3859685	5.88E-07	30YrCance	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	UCART1	489623.3	3859685	5.75E-07	30YrCance	5.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	UCART1	489237.3	3859705	2.09E-06	30YrCance	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	UCART1	489256.6	3859705	1.80E-06	30YrCance	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	UCART1	489275.9	3859705	1.58E-06	30YrCance	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	UCART1	489295.2	3859705	1.41E-06	30YrCance	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	UCART1	489314.5	3859705	1.27E-06	30YrCance	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	UCART1	489333.8	3859705	1.16E-06	30YrCance	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	UCART1	489353.1	3859705	1.07E-06	30YrCance	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	UCART1	489372.4	3859705	9.99E-07	30YrCance	9.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	UCART1	489391.7	3859705	9.37E-07	30YrCance	9.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	UCART1	489411	3859705	8.84E-07	30YrCance	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	UCART1	489430.3	3859705	8.38E-07	30YrCance	8.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	UCART1	489449.6	3859705	7.99E-07	30YrCance	7.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	UCART1	489468.9	3859705	7.63E-07	30YrCance	7.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	UCART1	489488.2	3859705	7.29E-07	30YrCance	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	UCART1	489507.5	3859705	6.97E-07	30YrCance	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	UCART1	489526.8	3859705	6.75E-07	30YrCance	6.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	UCART1	489546.1	3859705	6.50E-07	30YrCance	6.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	UCART1	489565.4	3859705	6.29E-07	30YrCance	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	UCART1	489584.7	3859705	6.10E-07	30YrCance	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	UCART1	489604	3859705	5.94E-07	30YrCance	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	UCART1	489623.3	3859705	5.81E-07	30YrCance	5.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	UCART1	489237.3	3859724	2.10E-06	30YrCance	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	UCART1	489256.6	3859724	1.81E-06	30YrCance	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	UCART1	489275.9	3859724	1.59E-06	30YrCance	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	UCART1	489295.2	3859724	1.41E-06	30YrCance	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	UCART1	489314.5	3859724	1.28E-06	30YrCance	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	UCART1	489333.8	3859724	1.17E-06	30YrCance	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	UCART1	489353.1	3859724	1.08E-06	30YrCance	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	UCART1	489372.4	3859724	1.00E-06	30YrCance	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	UCART1	489391.7	3859724	9.42E-07	30YrCance	9.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	UCART1	489411	3859724	8.89E-07	30YrCance	8.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

179	ALL	UCART1	489430.3	3859724	8.44E-07	30YrCance	8.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	UCART1	489449.6	3859724	8.06E-07	30YrCance	8.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	UCART1	489468.9	3859724	7.69E-07	30YrCance	7.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	UCART1	489488.2	3859724	7.35E-07	30YrCance	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	UCART1	489507.5	3859724	7.03E-07	30YrCance	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	UCART1	489526.8	3859724	6.80E-07	30YrCance	6.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	UCART1	489546.1	3859724	6.56E-07	30YrCance	6.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	UCART1	489565.4	3859724	6.34E-07	30YrCance	6.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	UCART1	489584.7	3859724	6.16E-07	30YrCance	6.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	UCART1	489604	3859724	5.99E-07	30YrCance	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	UCART1	489623.3	3859724	5.88E-07	30YrCance	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	UCART1	489237.3	3859743	2.11E-06	30YrCance	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	UCART1	489256.6	3859743	1.82E-06	30YrCance	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	UCART1	489275.9	3859743	1.59E-06	30YrCance	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	UCART1	489295.2	3859743	1.42E-06	30YrCance	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	UCART1	489314.5	3859743	1.28E-06	30YrCance	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	UCART1	489333.8	3859743	1.17E-06	30YrCance	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	UCART1	489353.1	3859743	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	UCART1	489372.4	3859743	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	UCART1	489391.7	3859743	9.49E-07	30YrCance	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	UCART1	489411	3859743	8.96E-07	30YrCance	8.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	UCART1	489430.3	3859743	8.52E-07	30YrCance	8.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	UCART1	489449.6	3859743	8.13E-07	30YrCance	8.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	UCART1	489468.9	3859743	7.77E-07	30YrCance	7.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	UCART1	489488.2	3859743	7.42E-07	30YrCance	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	UCART1	489507.5	3859743	7.08E-07	30YrCance	7.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	UCART1	489526.8	3859743	6.87E-07	30YrCance	6.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	UCART1	489546.1	3859743	6.62E-07	30YrCance	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	UCART1	489565.4	3859743	6.41E-07	30YrCance	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	UCART1	489584.7	3859743	6.22E-07	30YrCance	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	UCART1	489604	3859743	6.05E-07	30YrCance	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	UCART1	489623.3	3859743	5.94E-07	30YrCance	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	UCART1	489237.3	3859763	2.11E-06	30YrCance	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	UCART1	489256.6	3859763	1.82E-06	30YrCance	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	UCART1	489275.9	3859763	1.60E-06	30YrCance	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	UCART1	489295.2	3859763	1.43E-06	30YrCance	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	UCART1	489314.5	3859763	1.29E-06	30YrCance	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	UCART1	489333.8	3859763	1.18E-06	30YrCance	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	UCART1	489353.1	3859763	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	UCART1	489372.4	3859763	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	UCART1	489391.7	3859763	9.57E-07	30YrCance	9.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	UCART1	489411	3859763	9.05E-07	30YrCance	9.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	UCART1	489430.3	3859763	8.60E-07	30YrCance	8.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	UCART1	489449.6	3859763	8.21E-07	30YrCance	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	UCART1	489468.9	3859763	7.85E-07	30YrCance	7.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

224	ALL	UCART1	489488.2	3859763	7.50E-07	30YrCance	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	UCART1	489507.5	3859763	7.16E-07	30YrCance	7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	UCART1	489526.8	3859763	6.93E-07	30YrCance	6.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	UCART1	489546.1	3859763	6.69E-07	30YrCance	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	UCART1	489565.4	3859763	6.48E-07	30YrCance	6.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	UCART1	489584.7	3859763	6.30E-07	30YrCance	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	UCART1	489604	3859763	6.12E-07	30YrCance	6.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	UCART1	489623.3	3859763	6.01E-07	30YrCance	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	UCART1	489237.3	3859782	2.12E-06	30YrCance	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	UCART1	489256.6	3859782	1.83E-06	30YrCance	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	UCART1	489275.9	3859782	1.61E-06	30YrCance	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	UCART1	489295.2	3859782	1.43E-06	30YrCance	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	UCART1	489314.5	3859782	1.30E-06	30YrCance	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	UCART1	489333.8	3859782	1.20E-06	30YrCance	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	UCART1	489353.1	3859782	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	UCART1	489372.4	3859782	1.03E-06	30YrCance	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	UCART1	489391.7	3859782	9.69E-07	30YrCance	9.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	UCART1	489411	3859782	9.16E-07	30YrCance	9.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	UCART1	489430.3	3859782	8.70E-07	30YrCance	8.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	UCART1	489449.6	3859782	8.29E-07	30YrCance	8.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	UCART1	489468.9	3859782	7.92E-07	30YrCance	7.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	UCART1	489488.2	3859782	7.58E-07	30YrCance	7.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	UCART1	489507.5	3859782	7.28E-07	30YrCance	7.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	UCART1	489526.8	3859782	7.01E-07	30YrCance	7.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	UCART1	489546.1	3859782	6.76E-07	30YrCance	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	UCART1	489565.4	3859782	6.56E-07	30YrCance	6.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	UCART1	489584.7	3859782	6.38E-07	30YrCance	6.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	UCART1	489604	3859782	6.20E-07	30YrCance	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	UCART1	489623.3	3859782	6.07E-07	30YrCance	6.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	UCART1	489237.3	3859802	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	UCART1	489256.6	3859802	1.84E-06	30YrCance	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	UCART1	489275.9	3859802	1.62E-06	30YrCance	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	UCART1	489295.2	3859802	1.45E-06	30YrCance	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	UCART1	489314.5	3859802	1.31E-06	30YrCance	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	UCART1	489333.8	3859802	1.21E-06	30YrCance	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	UCART1	489353.1	3859802	1.11E-06	30YrCance	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	UCART1	489372.4	3859802	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	UCART1	489391.7	3859802	9.79E-07	30YrCance	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	UCART1	489411	3859802	9.26E-07	30YrCance	9.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	UCART1	489430.3	3859802	8.79E-07	30YrCance	8.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	UCART1	489449.6	3859802	8.37E-07	30YrCance	8.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	UCART1	489468.9	3859802	7.99E-07	30YrCance	7.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	UCART1	489488.2	3859802	7.67E-07	30YrCance	7.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	UCART1	489507.5	3859802	7.36E-07	30YrCance	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	UCART1	489526.8	3859802	7.09E-07	30YrCance	7.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

269	ALL	UCART1	489546.1	3859802	6.84E-07	30YrCance	6.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	UCART1	489565.4	3859802	6.64E-07	30YrCance	6.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	UCART1	489584.7	3859802	6.46E-07	30YrCance	6.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	UCART1	489604	3859802	6.29E-07	30YrCance	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	UCART1	489623.3	3859802	6.15E-07	30YrCance	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	UCART1	489237.3	3859821	2.15E-06	30YrCance	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	UCART1	489256.6	3859821	1.86E-06	30YrCance	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	UCART1	489275.9	3859821	1.63E-06	30YrCance	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	UCART1	489295.2	3859821	1.46E-06	30YrCance	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	UCART1	489314.5	3859821	1.32E-06	30YrCance	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	UCART1	489333.8	3859821	1.21E-06	30YrCance	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	UCART1	489353.1	3859821	1.13E-06	30YrCance	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	UCART1	489372.4	3859821	1.05E-06	30YrCance	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	UCART1	489391.7	3859821	9.89E-07	30YrCance	9.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	UCART1	489411	3859821	9.35E-07	30YrCance	9.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	UCART1	489430.3	3859821	8.87E-07	30YrCance	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	UCART1	489449.6	3859821	8.45E-07	30YrCance	8.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	UCART1	489468.9	3859821	8.09E-07	30YrCance	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	UCART1	489488.2	3859821	7.76E-07	30YrCance	7.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	UCART1	489507.5	3859821	7.44E-07	30YrCance	7.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	UCART1	489526.8	3859821	7.17E-07	30YrCance	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	UCART1	489546.1	3859821	6.94E-07	30YrCance	6.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	UCART1	489565.4	3859821	6.73E-07	30YrCance	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	UCART1	489584.7	3859821	6.54E-07	30YrCance	6.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	UCART1	489604	3859821	6.38E-07	30YrCance	6.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	UCART1	489623.3	3859821	6.23E-07	30YrCance	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	UCART1	489237.3	3859841	2.16E-06	30YrCance	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	UCART1	489256.6	3859841	1.87E-06	30YrCance	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	UCART1	489275.9	3859841	1.65E-06	30YrCance	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	UCART1	489295.2	3859841	1.48E-06	30YrCance	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	UCART1	489314.5	3859841	1.34E-06	30YrCance	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	UCART1	489333.8	3859841	1.23E-06	30YrCance	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	UCART1	489353.1	3859841	1.14E-06	30YrCance	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	UCART1	489372.4	3859841	1.06E-06	30YrCance	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	UCART1	489391.7	3859841	1.00E-06	30YrCance	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	UCART1	489411	3859841	9.46E-07	30YrCance	9.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	UCART1	489430.3	3859841	8.99E-07	30YrCance	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	UCART1	489449.6	3859841	8.57E-07	30YrCance	8.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	UCART1	489468.9	3859841	8.20E-07	30YrCance	8.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	UCART1	489488.2	3859841	7.86E-07	30YrCance	7.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	UCART1	489507.5	3859841	7.56E-07	30YrCance	7.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	UCART1	489526.8	3859841	7.30E-07	30YrCance	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	UCART1	489546.1	3859841	7.05E-07	30YrCance	7.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	UCART1	489565.4	3859841	6.84E-07	30YrCance	6.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	UCART1	489584.7	3859841	6.67E-07	30YrCance	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

314	ALL	UCART1	489604	3859841	6.44E-07	30YrCance	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	UCART1	489623.3	3859841	6.30E-07	30YrCance	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	UCART1	489237.3	3859860	2.17E-06	30YrCance	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	UCART1	489256.6	3859860	1.89E-06	30YrCance	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	UCART1	489275.9	3859860	1.67E-06	30YrCance	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	UCART1	489295.2	3859860	1.49E-06	30YrCance	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	UCART1	489314.5	3859860	1.36E-06	30YrCance	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	UCART1	489333.8	3859860	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	UCART1	489353.1	3859860	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	UCART1	489372.4	3859860	1.08E-06	30YrCance	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	UCART1	489391.7	3859860	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	UCART1	489411	3859860	9.58E-07	30YrCance	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	UCART1	489430.3	3859860	9.11E-07	30YrCance	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	UCART1	489449.6	3859860	8.65E-07	30YrCance	8.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	UCART1	489468.9	3859860	8.22E-07	30YrCance	8.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	UCART1	489488.2	3859860	7.90E-07	30YrCance	7.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	UCART1	489507.5	3859860	7.66E-07	30YrCance	7.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	UCART1	489526.8	3859860	7.41E-07	30YrCance	7.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	UCART1	489546.1	3859860	7.13E-07	30YrCance	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	UCART1	489565.4	3859860	6.94E-07	30YrCance	6.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	UCART1	489584.7	3859860	6.77E-07	30YrCance	6.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	UCART1	489604	3859860	6.52E-07	30YrCance	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	UCART1	489623.3	3859860	6.36E-07	30YrCance	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	UCART1	489237.3	3859879	2.19E-06	30YrCance	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	UCART1	489256.6	3859879	1.90E-06	30YrCance	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	UCART1	489275.9	3859879	1.68E-06	30YrCance	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	UCART1	489295.2	3859879	1.51E-06	30YrCance	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	UCART1	489314.5	3859879	1.37E-06	30YrCance	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	UCART1	489333.8	3859879	1.26E-06	30YrCance	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	UCART1	489353.1	3859879	1.17E-06	30YrCance	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	UCART1	489372.4	3859879	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	UCART1	489391.7	3859879	1.03E-06	30YrCance	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	UCART1	489411	3859879	9.72E-07	30YrCance	9.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	UCART1	489430.3	3859879	9.22E-07	30YrCance	9.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	UCART1	489449.6	3859879	8.64E-07	30YrCance	8.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	UCART1	489468.9	3859879	8.09E-07	30YrCance	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	UCART1	489488.2	3859879	7.83E-07	30YrCance	7.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	UCART1	489507.5	3859879	7.73E-07	30YrCance	7.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	UCART1	489526.8	3859879	7.49E-07	30YrCance	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	UCART1	489546.1	3859879	7.17E-07	30YrCance	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	UCART1	489565.4	3859879	6.97E-07	30YrCance	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	UCART1	489584.7	3859879	6.83E-07	30YrCance	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	UCART1	489604	3859879	6.62E-07	30YrCance	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	UCART1	489623.3	3859879	6.44E-07	30YrCance	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	UCART1	489237.3	3859899	2.20E-06	30YrCance	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

359	ALL	UCART1	489256.6	3859899	1.91E-06	30YrCance	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	UCART1	489275.9	3859899	1.69E-06	30YrCance	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	UCART1	489295.2	3859899	1.52E-06	30YrCance	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	UCART1	489314.5	3859899	1.38E-06	30YrCance	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	UCART1	489333.8	3859899	1.28E-06	30YrCance	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	UCART1	489353.1	3859899	1.19E-06	30YrCance	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	UCART1	489372.4	3859899	1.11E-06	30YrCance	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	UCART1	489391.7	3859899	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	UCART1	489411	3859899	9.79E-07	30YrCance	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	UCART1	489430.3	3859899	9.22E-07	30YrCance	9.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	UCART1	489449.6	3859899	8.71E-07	30YrCance	8.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	UCART1	489468.9	3859899	8.26E-07	30YrCance	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	UCART1	489488.2	3859899	7.98E-07	30YrCance	7.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	UCART1	489507.5	3859899	7.77E-07	30YrCance	7.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	UCART1	489526.8	3859899	7.58E-07	30YrCance	7.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	UCART1	489546.1	3859899	7.30E-07	30YrCance	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	UCART1	489565.4	3859899	7.10E-07	30YrCance	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	UCART1	489584.7	3859899	6.93E-07	30YrCance	6.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	UCART1	489604	3859899	6.72E-07	30YrCance	6.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	UCART1	489623.3	3859899	6.48E-07	30YrCance	6.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	UCART1	489237.3	3859918	2.22E-06	30YrCance	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	UCART1	489256.6	3859918	1.93E-06	30YrCance	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	UCART1	489275.9	3859918	1.71E-06	30YrCance	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	UCART1	489295.2	3859918	1.54E-06	30YrCance	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	UCART1	489314.5	3859918	1.40E-06	30YrCance	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	UCART1	489333.8	3859918	1.29E-06	30YrCance	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	UCART1	489353.1	3859918	1.20E-06	30YrCance	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	UCART1	489372.4	3859918	1.13E-06	30YrCance	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	UCART1	489391.7	3859918	1.05E-06	30YrCance	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	UCART1	489411	3859918	9.90E-07	30YrCance	9.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	UCART1	489430.3	3859918	9.30E-07	30YrCance	9.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	UCART1	489449.6	3859918	8.79E-07	30YrCance	8.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	UCART1	489468.9	3859918	8.47E-07	30YrCance	8.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	UCART1	489488.2	3859918	8.17E-07	30YrCance	8.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	UCART1	489507.5	3859918	7.90E-07	30YrCance	7.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	UCART1	489526.8	3859918	7.71E-07	30YrCance	7.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	UCART1	489546.1	3859918	7.49E-07	30YrCance	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	UCART1	489565.4	3859918	7.26E-07	30YrCance	7.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	UCART1	489584.7	3859918	7.04E-07	30YrCance	7.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	UCART1	489604	3859918	6.85E-07	30YrCance	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	UCART1	489623.3	3859918	6.50E-07	30YrCance	6.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	UCART1	489237.3	3859938	2.25E-06	30YrCance	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	UCART1	489256.6	3859938	1.95E-06	30YrCance	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	UCART1	489275.9	3859938	1.74E-06	30YrCance	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	UCART1	489295.2	3859938	1.57E-06	30YrCance	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

404	ALL	UCART1	489314.5	3859938	1.43E-06	30YrCance	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	UCART1	489333.8	3859938	1.32E-06	30YrCance	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	UCART1	489353.1	3859938	1.23E-06	30YrCance	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	UCART1	489372.4	3859938	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	UCART1	489391.7	3859938	1.08E-06	30YrCance	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	UCART1	489411	3859938	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	UCART1	489430.3	3859938	9.65E-07	30YrCance	9.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	UCART1	489449.6	3859938	9.06E-07	30YrCance	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	UCART1	489468.9	3859938	8.66E-07	30YrCance	8.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	UCART1	489488.2	3859938	8.36E-07	30YrCance	8.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	UCART1	489507.5	3859938	8.08E-07	30YrCance	8.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	UCART1	489526.8	3859938	7.90E-07	30YrCance	7.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	UCART1	489546.1	3859938	7.71E-07	30YrCance	7.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	UCART1	489565.4	3859938	7.49E-07	30YrCance	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	UCART1	489584.7	3859938	7.24E-07	30YrCance	7.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	UCART1	489604	3859938	6.97E-07	30YrCance	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	UCART1	489623.3	3859938	6.49E-07	30YrCance	6.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	UCART1	489237.3	3859957	2.27E-06	30YrCance	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	UCART1	489256.6	3859957	1.98E-06	30YrCance	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	UCART1	489275.9	3859957	1.77E-06	30YrCance	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	UCART1	489295.2	3859957	1.60E-06	30YrCance	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	UCART1	489314.5	3859957	1.46E-06	30YrCance	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	UCART1	489333.8	3859957	1.35E-06	30YrCance	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	UCART1	489353.1	3859957	1.26E-06	30YrCance	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	UCART1	489372.4	3859957	1.18E-06	30YrCance	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	UCART1	489391.7	3859957	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	UCART1	489411	3859957	1.03E-06	30YrCance	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	UCART1	489430.3	3859957	9.66E-07	30YrCance	9.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	UCART1	489449.6	3859957	9.08E-07	30YrCance	9.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	UCART1	489468.9	3859957	8.65E-07	30YrCance	8.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	UCART1	489488.2	3859957	8.20E-07	30YrCance	8.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	UCART1	489507.5	3859957	7.83E-07	30YrCance	7.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	UCART1	489526.8	3859957	7.65E-07	30YrCance	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	UCART1	489546.1	3859957	7.48E-07	30YrCance	7.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	UCART1	489565.4	3859957	7.30E-07	30YrCance	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	UCART1	489584.7	3859957	7.04E-07	30YrCance	7.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	UCART1	489604	3859957	6.68E-07	30YrCance	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	UCART1	489623.3	3859957	6.28E-07	30YrCance	6.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	UCART2	489260.3	3858742	1.75E-06	30YrCance	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	UCART2	489285	3858742	1.49E-06	30YrCance	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	UCART2	489309.6	3858742	1.29E-06	30YrCance	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	UCART2	489334.3	3858742	1.14E-06	30YrCance	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	UCART2	489358.9	3858742	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	UCART2	489383.6	3858742	9.33E-07	30YrCance	9.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	UCART2	489408.2	3858742	8.61E-07	30YrCance	8.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

449	ALL	UCART2	489432.9	3858742	8.01E-07	30YrCance	8.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	UCART2	489457.5	3858742	7.51E-07	30YrCance	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	UCART2	489482.2	3858742	7.09E-07	30YrCance	7.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	UCART2	489506.8	3858742	6.73E-07	30YrCance	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	UCART2	489531.5	3858742	6.42E-07	30YrCance	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	UCART2	489556.1	3858742	6.15E-07	30YrCance	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	UCART2	489580.8	3858742	5.91E-07	30YrCance	5.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	UCART2	489605.4	3858742	5.69E-07	30YrCance	5.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	UCART2	489630.1	3858742	5.51E-07	30YrCance	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	UCART2	489654.7	3858742	5.34E-07	30YrCance	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	UCART2	489679.4	3858742	5.19E-07	30YrCance	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	UCART2	489704	3858742	5.05E-07	30YrCance	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	UCART2	489728.7	3858742	4.93E-07	30YrCance	4.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	UCART2	489753.3	3858742	4.82E-07	30YrCance	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	UCART2	489260.3	3858764	1.74E-06	30YrCance	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	UCART2	489285	3858764	1.47E-06	30YrCance	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	UCART2	489309.6	3858764	1.27E-06	30YrCance	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	UCART2	489334.3	3858764	1.12E-06	30YrCance	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	UCART2	489358.9	3858764	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	UCART2	489383.6	3858764	9.19E-07	30YrCance	9.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	UCART2	489408.2	3858764	8.47E-07	30YrCance	8.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	UCART2	489432.9	3858764	7.89E-07	30YrCance	7.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	UCART2	489457.5	3858764	7.40E-07	30YrCance	7.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	UCART2	489482.2	3858764	6.98E-07	30YrCance	6.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	UCART2	489506.8	3858764	6.63E-07	30YrCance	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	UCART2	489531.5	3858764	6.32E-07	30YrCance	6.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	UCART2	489556.1	3858764	6.06E-07	30YrCance	6.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	UCART2	489580.8	3858764	5.82E-07	30YrCance	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	UCART2	489605.4	3858764	5.61E-07	30YrCance	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	UCART2	489630.1	3858764	5.42E-07	30YrCance	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	UCART2	489654.7	3858764	5.25E-07	30YrCance	5.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	UCART2	489679.4	3858764	5.10E-07	30YrCance	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	UCART2	489704	3858764	4.97E-07	30YrCance	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	UCART2	489728.7	3858764	4.85E-07	30YrCance	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	UCART2	489753.3	3858764	4.74E-07	30YrCance	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	UCART2	489260.3	3858785	1.74E-06	30YrCance	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	UCART2	489285	3858785	1.46E-06	30YrCance	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	UCART2	489309.6	3858785	1.26E-06	30YrCance	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	UCART2	489334.3	3858785	1.11E-06	30YrCance	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	UCART2	489358.9	3858785	9.98E-07	30YrCance	9.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	UCART2	489383.6	3858785	9.09E-07	30YrCance	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	UCART2	489408.2	3858785	8.38E-07	30YrCance	8.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	UCART2	489432.9	3858785	7.80E-07	30YrCance	7.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	UCART2	489457.5	3858785	7.32E-07	30YrCance	7.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	UCART2	489482.2	3858785	6.91E-07	30YrCance	6.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

494	ALL	UCART2	489506.8	3858785	6.56E-07	30YrCance	6.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	UCART2	489531.5	3858785	6.25E-07	30YrCance	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	UCART2	489556.1	3858785	5.98E-07	30YrCance	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	UCART2	489580.8	3858785	5.75E-07	30YrCance	5.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	UCART2	489605.4	3858785	5.54E-07	30YrCance	5.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	UCART2	489630.1	3858785	5.36E-07	30YrCance	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	UCART2	489654.7	3858785	5.18E-07	30YrCance	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	UCART2	489679.4	3858785	5.04E-07	30YrCance	5.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	UCART2	489704	3858785	4.90E-07	30YrCance	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	UCART2	489728.7	3858785	4.78E-07	30YrCance	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	UCART2	489753.3	3858785	4.67E-07	30YrCance	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	UCART2	489260.3	3858807	1.73E-06	30YrCance	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	UCART2	489285	3858807	1.46E-06	30YrCance	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	UCART2	489309.6	3858807	1.26E-06	30YrCance	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	UCART2	489334.3	3858807	1.11E-06	30YrCance	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	UCART2	489358.9	3858807	9.93E-07	30YrCance	9.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	UCART2	489383.6	3858807	9.04E-07	30YrCance	9.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	UCART2	489408.2	3858807	8.32E-07	30YrCance	8.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	UCART2	489432.9	3858807	7.74E-07	30YrCance	7.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	UCART2	489457.5	3858807	7.26E-07	30YrCance	7.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	UCART2	489482.2	3858807	6.85E-07	30YrCance	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	UCART2	489506.8	3858807	6.50E-07	30YrCance	6.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	UCART2	489531.5	3858807	6.19E-07	30YrCance	6.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	UCART2	489556.1	3858807	5.93E-07	30YrCance	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	UCART2	489580.8	3858807	5.70E-07	30YrCance	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	UCART2	489605.4	3858807	5.49E-07	30YrCance	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	UCART2	489630.1	3858807	5.30E-07	30YrCance	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	UCART2	489654.7	3858807	5.13E-07	30YrCance	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	UCART2	489679.4	3858807	4.98E-07	30YrCance	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	UCART2	489704	3858807	4.85E-07	30YrCance	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	UCART2	489728.7	3858807	4.73E-07	30YrCance	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	UCART2	489753.3	3858807	4.61E-07	30YrCance	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	UCART2	489260.3	3858828	1.73E-06	30YrCance	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	UCART2	489285	3858828	1.46E-06	30YrCance	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	UCART2	489309.6	3858828	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	UCART2	489334.3	3858828	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	UCART2	489358.9	3858828	9.90E-07	30YrCance	9.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	UCART2	489383.6	3858828	9.01E-07	30YrCance	9.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	UCART2	489408.2	3858828	8.29E-07	30YrCance	8.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	UCART2	489432.9	3858828	7.71E-07	30YrCance	7.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	UCART2	489457.5	3858828	7.22E-07	30YrCance	7.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	UCART2	489482.2	3858828	6.81E-07	30YrCance	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	UCART2	489506.8	3858828	6.46E-07	30YrCance	6.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	UCART2	489531.5	3858828	6.15E-07	30YrCance	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	UCART2	489556.1	3858828	5.89E-07	30YrCance	5.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

539	ALL	UCART2	489580.8	3858828	5.65E-07	30YrCance	5.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	UCART2	489605.4	3858828	5.44E-07	30YrCance	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	UCART2	489630.1	3858828	5.26E-07	30YrCance	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	UCART2	489654.7	3858828	5.09E-07	30YrCance	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	UCART2	489679.4	3858828	4.94E-07	30YrCance	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	UCART2	489704	3858828	4.80E-07	30YrCance	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	UCART2	489728.7	3858828	4.68E-07	30YrCance	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	UCART2	489753.3	3858828	4.56E-07	30YrCance	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	UCART2	489260.3	3858850	1.73E-06	30YrCance	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	UCART2	489285	3858850	1.45E-06	30YrCance	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	UCART2	489309.6	3858850	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	UCART2	489334.3	3858850	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	UCART2	489358.9	3858850	9.88E-07	30YrCance	9.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	UCART2	489383.6	3858850	8.98E-07	30YrCance	8.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	UCART2	489408.2	3858850	8.27E-07	30YrCance	8.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	UCART2	489432.9	3858850	7.68E-07	30YrCance	7.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	UCART2	489457.5	3858850	7.19E-07	30YrCance	7.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	UCART2	489482.2	3858850	6.78E-07	30YrCance	6.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	UCART2	489506.8	3858850	6.43E-07	30YrCance	6.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	UCART2	489531.5	3858850	6.12E-07	30YrCance	6.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	UCART2	489556.1	3858850	5.85E-07	30YrCance	5.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	UCART2	489580.8	3858850	5.62E-07	30YrCance	5.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	UCART2	489605.4	3858850	5.40E-07	30YrCance	5.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	UCART2	489630.1	3858850	5.22E-07	30YrCance	5.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	UCART2	489654.7	3858850	5.05E-07	30YrCance	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	UCART2	489679.4	3858850	4.90E-07	30YrCance	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	UCART2	489704	3858850	4.76E-07	30YrCance	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	UCART2	489728.7	3858850	4.63E-07	30YrCance	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	UCART2	489753.3	3858850	4.52E-07	30YrCance	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	UCART2	489260.3	3858871	1.72E-06	30YrCance	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	UCART2	489285	3858871	1.45E-06	30YrCance	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	UCART2	489309.6	3858871	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	UCART2	489334.3	3858871	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	UCART2	489358.9	3858871	9.86E-07	30YrCance	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	UCART2	489383.6	3858871	8.97E-07	30YrCance	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	UCART2	489408.2	3858871	8.25E-07	30YrCance	8.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	UCART2	489432.9	3858871	7.66E-07	30YrCance	7.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	UCART2	489457.5	3858871	7.17E-07	30YrCance	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	UCART2	489482.2	3858871	6.76E-07	30YrCance	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	UCART2	489506.8	3858871	6.40E-07	30YrCance	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	UCART2	489531.5	3858871	6.10E-07	30YrCance	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	UCART2	489556.1	3858871	5.83E-07	30YrCance	5.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	UCART2	489580.8	3858871	5.59E-07	30YrCance	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	UCART2	489605.4	3858871	5.37E-07	30YrCance	5.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	UCART2	489630.1	3858871	5.19E-07	30YrCance	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

584	ALL	UCART2	489654.7	3858871	5.02E-07	30YrCance	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	UCART2	489679.4	3858871	4.86E-07	30YrCance	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	UCART2	489704	3858871	4.73E-07	30YrCance	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	UCART2	489728.7	3858871	4.59E-07	30YrCance	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	UCART2	489753.3	3858871	4.48E-07	30YrCance	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	UCART2	489260.3	3858893	1.72E-06	30YrCance	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	UCART2	489285	3858893	1.45E-06	30YrCance	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	UCART2	489309.6	3858893	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	UCART2	489334.3	3858893	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	UCART2	489358.9	3858893	9.85E-07	30YrCance	9.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	UCART2	489383.6	3858893	8.96E-07	30YrCance	8.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	UCART2	489408.2	3858893	8.23E-07	30YrCance	8.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	UCART2	489432.9	3858893	7.65E-07	30YrCance	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	UCART2	489457.5	3858893	7.16E-07	30YrCance	7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	UCART2	489482.2	3858893	6.74E-07	30YrCance	6.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	UCART2	489506.8	3858893	6.39E-07	30YrCance	6.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	UCART2	489531.5	3858893	6.08E-07	30YrCance	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	UCART2	489556.1	3858893	5.81E-07	30YrCance	5.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	UCART2	489580.8	3858893	5.56E-07	30YrCance	5.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	UCART2	489605.4	3858893	5.35E-07	30YrCance	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	UCART2	489630.1	3858893	5.16E-07	30YrCance	5.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	UCART2	489654.7	3858893	4.99E-07	30YrCance	4.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	UCART2	489679.4	3858893	4.83E-07	30YrCance	4.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	UCART2	489704	3858893	4.69E-07	30YrCance	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	UCART2	489728.7	3858893	4.56E-07	30YrCance	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	UCART2	489753.3	3858893	4.44E-07	30YrCance	4.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	UCART2	489260.3	3858915	1.72E-06	30YrCance	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	UCART2	489285	3858915	1.45E-06	30YrCance	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	UCART2	489309.6	3858915	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	UCART2	489334.3	3858915	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	UCART2	489358.9	3858915	9.84E-07	30YrCance	9.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	UCART2	489383.6	3858915	8.94E-07	30YrCance	8.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	UCART2	489408.2	3858915	8.23E-07	30YrCance	8.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	UCART2	489432.9	3858915	7.64E-07	30YrCance	7.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	UCART2	489457.5	3858915	7.15E-07	30YrCance	7.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	UCART2	489482.2	3858915	6.73E-07	30YrCance	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	UCART2	489506.8	3858915	6.38E-07	30YrCance	6.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	UCART2	489531.5	3858915	6.06E-07	30YrCance	6.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	UCART2	489556.1	3858915	5.79E-07	30YrCance	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	UCART2	489580.8	3858915	5.54E-07	30YrCance	5.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	UCART2	489605.4	3858915	5.33E-07	30YrCance	5.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	UCART2	489630.1	3858915	5.14E-07	30YrCance	5.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	UCART2	489654.7	3858915	4.97E-07	30YrCance	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	UCART2	489679.4	3858915	4.81E-07	30YrCance	4.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	UCART2	489704	3858915	4.66E-07	30YrCance	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

629	ALL	UCART2	489728.7	3858915	4.54E-07	30YrCance	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	UCART2	489753.3	3858915	4.42E-07	30YrCance	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	UCART2	489260.3	3858936	1.72E-06	30YrCance	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	UCART2	489285	3858936	1.45E-06	30YrCance	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	UCART2	489309.6	3858936	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	UCART2	489334.3	3858936	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	UCART2	489358.9	3858936	9.83E-07	30YrCance	9.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	UCART2	489383.6	3858936	8.94E-07	30YrCance	8.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	UCART2	489408.2	3858936	8.22E-07	30YrCance	8.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	UCART2	489432.9	3858936	7.63E-07	30YrCance	7.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	UCART2	489457.5	3858936	7.14E-07	30YrCance	7.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	UCART2	489482.2	3858936	6.72E-07	30YrCance	6.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	UCART2	489506.8	3858936	6.36E-07	30YrCance	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	UCART2	489531.5	3858936	6.05E-07	30YrCance	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	UCART2	489556.1	3858936	5.77E-07	30YrCance	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	UCART2	489580.8	3858936	5.53E-07	30YrCance	5.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	UCART2	489605.4	3858936	5.32E-07	30YrCance	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	UCART2	489630.1	3858936	5.12E-07	30YrCance	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	UCART2	489654.7	3858936	4.95E-07	30YrCance	4.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	UCART2	489679.4	3858936	4.78E-07	30YrCance	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	UCART2	489704	3858936	4.64E-07	30YrCance	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	UCART2	489728.7	3858936	4.51E-07	30YrCance	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	UCART2	489753.3	3858936	4.39E-07	30YrCance	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	UCART2	489260.3	3858958	1.72E-06	30YrCance	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	UCART2	489285	3858958	1.45E-06	30YrCance	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	UCART2	489309.6	3858958	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	UCART2	489334.3	3858958	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	UCART2	489358.9	3858958	9.83E-07	30YrCance	9.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	UCART2	489383.6	3858958	8.93E-07	30YrCance	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	UCART2	489408.2	3858958	8.21E-07	30YrCance	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	UCART2	489432.9	3858958	7.63E-07	30YrCance	7.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	UCART2	489457.5	3858958	7.13E-07	30YrCance	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	UCART2	489482.2	3858958	6.71E-07	30YrCance	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	UCART2	489506.8	3858958	6.35E-07	30YrCance	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	UCART2	489531.5	3858958	6.03E-07	30YrCance	6.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	UCART2	489556.1	3858958	5.76E-07	30YrCance	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	UCART2	489580.8	3858958	5.52E-07	30YrCance	5.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	UCART2	489605.4	3858958	5.30E-07	30YrCance	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	UCART2	489630.1	3858958	5.10E-07	30YrCance	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	UCART2	489654.7	3858958	4.93E-07	30YrCance	4.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	UCART2	489679.4	3858958	4.77E-07	30YrCance	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	UCART2	489704	3858958	4.63E-07	30YrCance	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	UCART2	489728.7	3858958	4.50E-07	30YrCance	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	UCART2	489753.3	3858958	4.37E-07	30YrCance	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	UCART2	489260.3	3858979	1.72E-06	30YrCance	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

674	ALL	UCART2	489285	3858979	1.44E-06	30YrCance	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	UCART2	489309.6	3858979	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	UCART2	489334.3	3858979	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	UCART2	489358.9	3858979	9.82E-07	30YrCance	9.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	UCART2	489383.6	3858979	8.93E-07	30YrCance	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	UCART2	489408.2	3858979	8.21E-07	30YrCance	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	UCART2	489432.9	3858979	7.62E-07	30YrCance	7.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	UCART2	489457.5	3858979	7.12E-07	30YrCance	7.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	UCART2	489482.2	3858979	6.70E-07	30YrCance	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	UCART2	489506.8	3858979	6.33E-07	30YrCance	6.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	UCART2	489531.5	3858979	6.02E-07	30YrCance	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	UCART2	489556.1	3858979	5.75E-07	30YrCance	5.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	UCART2	489580.8	3858979	5.50E-07	30YrCance	5.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	UCART2	489605.4	3858979	5.28E-07	30YrCance	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	UCART2	489630.1	3858979	5.09E-07	30YrCance	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	UCART2	489654.7	3858979	4.91E-07	30YrCance	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	UCART2	489679.4	3858979	4.75E-07	30YrCance	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	UCART2	489704	3858979	4.61E-07	30YrCance	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	UCART2	489728.7	3858979	4.48E-07	30YrCance	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	UCART2	489753.3	3858979	4.36E-07	30YrCance	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	UCART2	489260.3	3859001	1.72E-06	30YrCance	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	UCART2	489285	3859001	1.44E-06	30YrCance	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	UCART2	489309.6	3859001	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	UCART2	489334.3	3859001	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	UCART2	489358.9	3859001	9.82E-07	30YrCance	9.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	UCART2	489383.6	3859001	8.93E-07	30YrCance	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	UCART2	489408.2	3859001	8.20E-07	30YrCance	8.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	UCART2	489432.9	3859001	7.61E-07	30YrCance	7.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	UCART2	489457.5	3859001	7.11E-07	30YrCance	7.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	UCART2	489482.2	3859001	6.69E-07	30YrCance	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	UCART2	489506.8	3859001	6.32E-07	30YrCance	6.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	UCART2	489531.5	3859001	6.01E-07	30YrCance	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	UCART2	489556.1	3859001	5.74E-07	30YrCance	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	UCART2	489580.8	3859001	5.49E-07	30YrCance	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	UCART2	489605.4	3859001	5.27E-07	30YrCance	5.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	UCART2	489630.1	3859001	5.08E-07	30YrCance	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	UCART2	489654.7	3859001	4.90E-07	30YrCance	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	UCART2	489679.4	3859001	4.74E-07	30YrCance	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	UCART2	489704	3859001	4.60E-07	30YrCance	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	UCART2	489728.7	3859001	4.47E-07	30YrCance	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	UCART2	489753.3	3859001	4.36E-07	30YrCance	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	UCART2	489260.3	3859022	1.71E-06	30YrCance	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	UCART2	489285	3859022	1.44E-06	30YrCance	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	UCART2	489309.6	3859022	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	UCART2	489334.3	3859022	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719	ALL	UCART2	489358.9	3859022	9.82E-07	30YrCance	9.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	UCART2	489383.6	3859022	8.93E-07	30YrCance	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	UCART2	489408.2	3859022	8.20E-07	30YrCance	8.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	UCART2	489432.9	3859022	7.61E-07	30YrCance	7.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	UCART2	489457.5	3859022	7.11E-07	30YrCance	7.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	UCART2	489482.2	3859022	6.68E-07	30YrCance	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	UCART2	489506.8	3859022	6.32E-07	30YrCance	6.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	UCART2	489531.5	3859022	6.00E-07	30YrCance	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	UCART2	489556.1	3859022	5.73E-07	30YrCance	5.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	UCART2	489580.8	3859022	5.48E-07	30YrCance	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	UCART2	489605.4	3859022	5.26E-07	30YrCance	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	UCART2	489630.1	3859022	5.07E-07	30YrCance	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	UCART2	489654.7	3859022	4.89E-07	30YrCance	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	UCART2	489679.4	3859022	4.74E-07	30YrCance	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	UCART2	489704	3859022	4.60E-07	30YrCance	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	UCART2	489728.7	3859022	4.47E-07	30YrCance	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	UCART2	489753.3	3859022	4.35E-07	30YrCance	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	UCART2	489260.3	3859044	1.70E-06	30YrCance	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	UCART2	489285	3859044	1.44E-06	30YrCance	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	UCART2	489309.6	3859044	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	UCART2	489334.3	3859044	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	UCART2	489358.9	3859044	9.81E-07	30YrCance	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	UCART2	489383.6	3859044	8.92E-07	30YrCance	8.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	UCART2	489408.2	3859044	8.20E-07	30YrCance	8.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	UCART2	489432.9	3859044	7.60E-07	30YrCance	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	UCART2	489457.5	3859044	7.10E-07	30YrCance	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	UCART2	489482.2	3859044	6.68E-07	30YrCance	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	UCART2	489506.8	3859044	6.31E-07	30YrCance	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	UCART2	489531.5	3859044	6.00E-07	30YrCance	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	UCART2	489556.1	3859044	5.72E-07	30YrCance	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	UCART2	489580.8	3859044	5.47E-07	30YrCance	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	UCART2	489605.4	3859044	5.25E-07	30YrCance	5.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	UCART2	489630.1	3859044	5.06E-07	30YrCance	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	UCART2	489654.7	3859044	4.89E-07	30YrCance	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	UCART2	489679.4	3859044	4.73E-07	30YrCance	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	UCART2	489704	3859044	4.59E-07	30YrCance	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	UCART2	489728.7	3859044	4.46E-07	30YrCance	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	UCART2	489753.3	3859044	4.35E-07	30YrCance	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	UCART2	489260.3	3859066	1.67E-06	30YrCance	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	UCART2	489285	3859066	1.43E-06	30YrCance	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	UCART2	489309.6	3859066	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	UCART2	489334.3	3859066	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	UCART2	489358.9	3859066	9.81E-07	30YrCance	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	UCART2	489383.6	3859066	8.92E-07	30YrCance	8.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	UCART2	489408.2	3859066	8.20E-07	30YrCance	8.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

764	ALL	UCART2	489432.9	3859066	7.60E-07	30YrCance	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	UCART2	489457.5	3859066	7.10E-07	30YrCance	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	UCART2	489482.2	3859066	6.68E-07	30YrCance	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	UCART2	489506.8	3859066	6.31E-07	30YrCance	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	UCART2	489531.5	3859066	5.99E-07	30YrCance	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	UCART2	489556.1	3859066	5.71E-07	30YrCance	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	UCART2	489580.8	3859066	5.47E-07	30YrCance	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	UCART2	489605.4	3859066	5.25E-07	30YrCance	5.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	UCART2	489630.1	3859066	5.06E-07	30YrCance	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	UCART2	489654.7	3859066	4.89E-07	30YrCance	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	UCART2	489679.4	3859066	4.73E-07	30YrCance	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	UCART2	489704	3859066	4.59E-07	30YrCance	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	UCART2	489728.7	3859066	4.46E-07	30YrCance	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	UCART2	489753.3	3859066	4.34E-07	30YrCance	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	UCART2	489260.3	3859087	1.65E-06	30YrCance	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	UCART2	489285	3859087	1.41E-06	30YrCance	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	UCART2	489309.6	3859087	1.23E-06	30YrCance	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	UCART2	489334.3	3859087	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	UCART2	489358.9	3859087	9.80E-07	30YrCance	9.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	UCART2	489383.6	3859087	8.91E-07	30YrCance	8.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	UCART2	489408.2	3859087	8.19E-07	30YrCance	8.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	UCART2	489432.9	3859087	7.60E-07	30YrCance	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	UCART2	489457.5	3859087	7.09E-07	30YrCance	7.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	UCART2	489482.2	3859087	6.67E-07	30YrCance	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	UCART2	489506.8	3859087	6.31E-07	30YrCance	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	UCART2	489531.5	3859087	5.99E-07	30YrCance	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	UCART2	489556.1	3859087	5.71E-07	30YrCance	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	UCART2	489580.8	3859087	5.47E-07	30YrCance	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	UCART2	489605.4	3859087	5.25E-07	30YrCance	5.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	UCART2	489630.1	3859087	5.06E-07	30YrCance	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	UCART2	489654.7	3859087	4.89E-07	30YrCance	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	UCART2	489679.4	3859087	4.73E-07	30YrCance	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	UCART2	489704	3859087	4.59E-07	30YrCance	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	UCART2	489728.7	3859087	4.46E-07	30YrCance	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	UCART2	489753.3	3859087	4.34E-07	30YrCance	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	UCART2	489260.3	3859109	1.64E-06	30YrCance	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	UCART2	489285	3859109	1.39E-06	30YrCance	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	UCART2	489309.6	3859109	1.22E-06	30YrCance	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	UCART2	489334.3	3859109	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	UCART2	489358.9	3859109	9.79E-07	30YrCance	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	UCART2	489383.6	3859109	8.90E-07	30YrCance	8.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	UCART2	489408.2	3859109	8.19E-07	30YrCance	8.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	UCART2	489432.9	3859109	7.60E-07	30YrCance	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	UCART2	489457.5	3859109	7.09E-07	30YrCance	7.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	UCART2	489482.2	3859109	6.67E-07	30YrCance	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

809	ALL	UCART2	489506.8	3859109	6.30E-07	30YrCance	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	UCART2	489531.5	3859109	5.98E-07	30YrCance	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	UCART2	489556.1	3859109	5.71E-07	30YrCance	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	UCART2	489580.8	3859109	5.47E-07	30YrCance	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	UCART2	489605.4	3859109	5.25E-07	30YrCance	5.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	UCART2	489630.1	3859109	5.06E-07	30YrCance	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	UCART2	489654.7	3859109	4.89E-07	30YrCance	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	UCART2	489679.4	3859109	4.73E-07	30YrCance	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	UCART2	489704	3859109	4.59E-07	30YrCance	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	UCART2	489728.7	3859109	4.46E-07	30YrCance	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	UCART2	489753.3	3859109	4.34E-07	30YrCance	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	UCART2	489260.3	3859130	1.65E-06	30YrCance	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	UCART2	489285	3859130	1.39E-06	30YrCance	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	UCART2	489309.6	3859130	1.22E-06	30YrCance	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	UCART2	489334.3	3859130	1.08E-06	30YrCance	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	UCART2	489358.9	3859130	9.76E-07	30YrCance	9.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	UCART2	489383.6	3859130	8.89E-07	30YrCance	8.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	UCART2	489408.2	3859130	8.18E-07	30YrCance	8.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	UCART2	489432.9	3859130	7.60E-07	30YrCance	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	UCART2	489457.5	3859130	7.10E-07	30YrCance	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	UCART2	489482.2	3859130	6.67E-07	30YrCance	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	UCART2	489506.8	3859130	6.30E-07	30YrCance	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	UCART2	489531.5	3859130	5.99E-07	30YrCance	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	UCART2	489556.1	3859130	5.71E-07	30YrCance	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	UCART2	489580.8	3859130	5.47E-07	30YrCance	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	UCART2	489605.4	3859130	5.26E-07	30YrCance	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	UCART2	489630.1	3859130	5.06E-07	30YrCance	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	UCART2	489654.7	3859130	4.89E-07	30YrCance	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	UCART2	489679.4	3859130	4.73E-07	30YrCance	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	UCART2	489704	3859130	4.59E-07	30YrCance	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	UCART2	489728.7	3859130	4.46E-07	30YrCance	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	UCART2	489753.3	3859130	4.34E-07	30YrCance	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	UCART2	489260.3	3859152	1.67E-06	30YrCance	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	UCART2	489285	3859152	1.41E-06	30YrCance	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	UCART2	489309.6	3859152	1.22E-06	30YrCance	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	UCART2	489334.3	3859152	1.08E-06	30YrCance	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	UCART2	489358.9	3859152	9.75E-07	30YrCance	9.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	UCART2	489383.6	3859152	8.88E-07	30YrCance	8.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	UCART2	489408.2	3859152	8.18E-07	30YrCance	8.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	UCART2	489432.9	3859152	7.60E-07	30YrCance	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	UCART2	489457.5	3859152	7.10E-07	30YrCance	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	UCART2	489482.2	3859152	6.67E-07	30YrCance	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	UCART2	489506.8	3859152	6.30E-07	30YrCance	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	UCART2	489531.5	3859152	5.98E-07	30YrCance	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	UCART2	489556.1	3859152	5.71E-07	30YrCance	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

854	ALL	UCART2	489580.8	3859152	5.47E-07	30YrCance	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	UCART2	489605.4	3859152	5.26E-07	30YrCance	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	UCART2	489630.1	3859152	5.07E-07	30YrCance	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	UCART2	489654.7	3859152	4.89E-07	30YrCance	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	UCART2	489679.4	3859152	4.74E-07	30YrCance	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	UCART2	489704	3859152	4.59E-07	30YrCance	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	UCART2	489728.7	3859152	4.46E-07	30YrCance	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	UCART2	489753.3	3859152	4.34E-07	30YrCance	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	UCART2	489260.3	3859173	1.69E-06	30YrCance	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	UCART2	489285	3859173	1.43E-06	30YrCance	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	UCART2	489309.6	3859173	1.23E-06	30YrCance	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	UCART2	489334.3	3859173	1.08E-06	30YrCance	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	UCART2	489358.9	3859173	9.76E-07	30YrCance	9.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	UCART2	489383.6	3859173	8.88E-07	30YrCance	8.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	UCART2	489408.2	3859173	8.18E-07	30YrCance	8.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	UCART2	489432.9	3859173	7.60E-07	30YrCance	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	UCART2	489457.5	3859173	7.10E-07	30YrCance	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	UCART2	489482.2	3859173	6.67E-07	30YrCance	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	UCART2	489506.8	3859173	6.31E-07	30YrCance	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	UCART2	489531.5	3859173	5.99E-07	30YrCance	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	UCART2	489556.1	3859173	5.72E-07	30YrCance	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	UCART2	489580.8	3859173	5.47E-07	30YrCance	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	UCART2	489605.4	3859173	5.26E-07	30YrCance	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	UCART2	489630.1	3859173	5.07E-07	30YrCance	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	UCART2	489654.7	3859173	4.89E-07	30YrCance	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	UCART2	489679.4	3859173	4.74E-07	30YrCance	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	UCART2	489704	3859173	4.60E-07	30YrCance	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	UCART2	489728.7	3859173	4.47E-07	30YrCance	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	UCART2	489753.3	3859173	4.35E-07	30YrCance	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	UCART3	488584.7	3858406	1.22E-07	30YrCance	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	UCART3	488614.5	3858406	1.25E-07	30YrCance	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	UCART3	488644.3	3858406	1.29E-07	30YrCance	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	UCART3	488674.1	3858406	1.33E-07	30YrCance	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	UCART3	488703.9	3858406	1.37E-07	30YrCance	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	UCART3	488733.8	3858406	1.42E-07	30YrCance	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	UCART3	488763.6	3858406	1.47E-07	30YrCance	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	UCART3	488793.4	3858406	1.53E-07	30YrCance	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	UCART3	488823.2	3858406	1.59E-07	30YrCance	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	UCART3	488853	3858406	1.66E-07	30YrCance	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	UCART3	488882.9	3858406	1.74E-07	30YrCance	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	UCART3	488912.7	3858406	1.82E-07	30YrCance	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	UCART3	488942.5	3858406	1.92E-07	30YrCance	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	UCART3	488972.3	3858406	2.02E-07	30YrCance	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	UCART3	489002.1	3858406	2.14E-07	30YrCance	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	UCART3	489032	3858406	2.28E-07	30YrCance	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

899	ALL	UCART3	489061.8	3858406	2.44E-07	30YrCance	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	UCART3	489091.6	3858406	2.62E-07	30YrCance	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	UCART3	489121.4	3858406	2.84E-07	30YrCance	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	UCART3	489151.2	3858406	3.09E-07	30YrCance	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	UCART3	489181.1	3858406	3.39E-07	30YrCance	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	UCART3	488584.7	3858431	1.25E-07	30YrCance	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	UCART3	488614.5	3858431	1.28E-07	30YrCance	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	UCART3	488644.3	3858431	1.32E-07	30YrCance	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	UCART3	488674.1	3858431	1.36E-07	30YrCance	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	UCART3	488703.9	3858431	1.41E-07	30YrCance	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	UCART3	488733.8	3858431	1.46E-07	30YrCance	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	ALL	UCART3	488763.6	3858431	1.51E-07	30YrCance	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	UCART3	488793.4	3858431	1.58E-07	30YrCance	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	UCART3	488823.2	3858431	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	UCART3	488853	3858431	1.72E-07	30YrCance	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	UCART3	488882.9	3858431	1.80E-07	30YrCance	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	UCART3	488912.7	3858431	1.89E-07	30YrCance	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	UCART3	488942.5	3858431	1.99E-07	30YrCance	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	UCART3	488972.3	3858431	2.11E-07	30YrCance	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	UCART3	489002.1	3858431	2.24E-07	30YrCance	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	UCART3	489032	3858431	2.38E-07	30YrCance	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	UCART3	489061.8	3858431	2.55E-07	30YrCance	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	UCART3	489091.6	3858431	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	UCART3	489121.4	3858431	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	UCART3	489151.2	3858431	3.29E-07	30YrCance	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	UCART3	489181.1	3858431	3.65E-07	30YrCance	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	UCART3	488584.7	3858456	1.28E-07	30YrCance	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	UCART3	488614.5	3858456	1.32E-07	30YrCance	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	UCART3	488644.3	3858456	1.36E-07	30YrCance	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	UCART3	488674.1	3858456	1.40E-07	30YrCance	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	UCART3	488703.9	3858456	1.45E-07	30YrCance	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	UCART3	488733.8	3858456	1.50E-07	30YrCance	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	UCART3	488763.6	3858456	1.56E-07	30YrCance	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	UCART3	488793.4	3858456	1.62E-07	30YrCance	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	UCART3	488823.2	3858456	1.69E-07	30YrCance	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	UCART3	488853	3858456	1.77E-07	30YrCance	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	UCART3	488882.9	3858456	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	UCART3	488912.7	3858456	1.95E-07	30YrCance	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	UCART3	488942.5	3858456	2.05E-07	30YrCance	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	UCART3	488972.3	3858456	2.17E-07	30YrCance	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	UCART3	489002.1	3858456	2.31E-07	30YrCance	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	ALL	UCART3	489032	3858456	2.47E-07	30YrCance	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	UCART3	489061.8	3858456	2.65E-07	30YrCance	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	UCART3	489091.6	3858456	2.88E-07	30YrCance	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	UCART3	489121.4	3858456	3.16E-07	30YrCance	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

944	ALL	UCART3	489151.2	3858456	3.50E-07	30YrCance	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	UCART3	489181.1	3858456	3.95E-07	30YrCance	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	UCART3	488584.7	3858481	1.31E-07	30YrCance	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	UCART3	488614.5	3858481	1.35E-07	30YrCance	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	UCART3	488644.3	3858481	1.39E-07	30YrCance	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	UCART3	488674.1	3858481	1.43E-07	30YrCance	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	UCART3	488703.9	3858481	1.48E-07	30YrCance	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	UCART3	488733.8	3858481	1.53E-07	30YrCance	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	UCART3	488763.6	3858481	1.59E-07	30YrCance	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	UCART3	488793.4	3858481	1.65E-07	30YrCance	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	UCART3	488823.2	3858481	1.72E-07	30YrCance	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	UCART3	488853	3858481	1.81E-07	30YrCance	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	UCART3	488882.9	3858481	1.89E-07	30YrCance	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	UCART3	488912.7	3858481	1.99E-07	30YrCance	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	UCART3	488942.5	3858481	2.11E-07	30YrCance	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	UCART3	488972.3	3858481	2.23E-07	30YrCance	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	UCART3	489002.1	3858481	2.38E-07	30YrCance	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	UCART3	489032	3858481	2.56E-07	30YrCance	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	UCART3	489061.8	3858481	2.77E-07	30YrCance	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	UCART3	489091.6	3858481	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	UCART3	489121.4	3858481	3.35E-07	30YrCance	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	UCART3	489151.2	3858481	3.77E-07	30YrCance	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	UCART3	489181.1	3858481	4.31E-07	30YrCance	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	UCART3	488584.7	3858506	1.33E-07	30YrCance	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	UCART3	488614.5	3858506	1.37E-07	30YrCance	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	UCART3	488644.3	3858506	1.41E-07	30YrCance	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	UCART3	488674.1	3858506	1.45E-07	30YrCance	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	UCART3	488703.9	3858506	1.50E-07	30YrCance	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	UCART3	488733.8	3858506	1.56E-07	30YrCance	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	UCART3	488763.6	3858506	1.61E-07	30YrCance	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	UCART3	488793.4	3858506	1.68E-07	30YrCance	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	UCART3	488823.2	3858506	1.75E-07	30YrCance	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	UCART3	488853	3858506	1.84E-07	30YrCance	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	UCART3	488882.9	3858506	1.93E-07	30YrCance	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	UCART3	488912.7	3858506	2.04E-07	30YrCance	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	UCART3	488942.5	3858506	2.16E-07	30YrCance	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	UCART3	488972.3	3858506	2.30E-07	30YrCance	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	UCART3	489002.1	3858506	2.47E-07	30YrCance	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	UCART3	489032	3858506	2.66E-07	30YrCance	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	UCART3	489061.8	3858506	2.90E-07	30YrCance	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	UCART3	489091.6	3858506	3.19E-07	30YrCance	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	UCART3	489121.4	3858506	3.56E-07	30YrCance	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	UCART3	489151.2	3858506	4.05E-07	30YrCance	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	UCART3	489181.1	3858506	4.71E-07	30YrCance	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	UCART3	488584.7	3858531	1.35E-07	30YrCance	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

989	ALL	UCART3	488614.5	3858531	1.39E-07	30YrCance	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	UCART3	488644.3	3858531	1.43E-07	30YrCance	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	UCART3	488674.1	3858531	1.47E-07	30YrCance	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	UCART3	488703.9	3858531	1.52E-07	30YrCance	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	UCART3	488733.8	3858531	1.58E-07	30YrCance	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	UCART3	488763.6	3858531	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	UCART3	488793.4	3858531	1.71E-07	30YrCance	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	UCART3	488823.2	3858531	1.79E-07	30YrCance	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	UCART3	488853	3858531	1.87E-07	30YrCance	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	UCART3	488882.9	3858531	1.98E-07	30YrCance	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	UCART3	488912.7	3858531	2.09E-07	30YrCance	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	ALL	UCART3	488942.5	3858531	2.23E-07	30YrCance	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001	ALL	UCART3	488972.3	3858531	2.38E-07	30YrCance	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	UCART3	489002.1	3858531	2.56E-07	30YrCance	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	UCART3	489032	3858531	2.78E-07	30YrCance	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	UCART3	489061.8	3858531	3.04E-07	30YrCance	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	UCART3	489091.6	3858531	3.36E-07	30YrCance	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	UCART3	489121.4	3858531	3.78E-07	30YrCance	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	UCART3	489151.2	3858531	4.33E-07	30YrCance	4.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	UCART3	489181.1	3858531	5.08E-07	30YrCance	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	UCART3	488584.7	3858556	1.37E-07	30YrCance	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	UCART3	488614.5	3858556	1.40E-07	30YrCance	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	UCART3	488644.3	3858556	1.45E-07	30YrCance	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	UCART3	488674.1	3858556	1.49E-07	30YrCance	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	UCART3	488703.9	3858556	1.54E-07	30YrCance	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	UCART3	488733.8	3858556	1.60E-07	30YrCance	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	UCART3	488763.6	3858556	1.67E-07	30YrCance	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	UCART3	488793.4	3858556	1.74E-07	30YrCance	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	UCART3	488823.2	3858556	1.83E-07	30YrCance	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	UCART3	488853	3858556	1.92E-07	30YrCance	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	UCART3	488882.9	3858556	2.03E-07	30YrCance	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	UCART3	488912.7	3858556	2.15E-07	30YrCance	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	UCART3	488942.5	3858556	2.30E-07	30YrCance	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	UCART3	488972.3	3858556	2.46E-07	30YrCance	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	UCART3	489002.1	3858556	2.66E-07	30YrCance	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	UCART3	489032	3858556	2.89E-07	30YrCance	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	UCART3	489061.8	3858556	3.18E-07	30YrCance	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	UCART3	489091.6	3858556	3.54E-07	30YrCance	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	UCART3	489121.4	3858556	3.99E-07	30YrCance	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	UCART3	489151.2	3858556	4.58E-07	30YrCance	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	UCART3	489181.1	3858556	5.38E-07	30YrCance	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	UCART3	488584.7	3858581	1.38E-07	30YrCance	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	UCART3	488614.5	3858581	1.42E-07	30YrCance	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	UCART3	488644.3	3858581	1.47E-07	30YrCance	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	UCART3	488674.1	3858581	1.51E-07	30YrCance	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1034	ALL	UCART3	488703.9	3858581	1.57E-07	30YrCance	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	UCART3	488733.8	3858581	1.63E-07	30YrCance	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	UCART3	488763.6	3858581	1.70E-07	30YrCance	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	UCART3	488793.4	3858581	1.78E-07	30YrCance	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	UCART3	488823.2	3858581	1.87E-07	30YrCance	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	UCART3	488853	3858581	1.97E-07	30YrCance	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	UCART3	488882.9	3858581	2.09E-07	30YrCance	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	UCART3	488912.7	3858581	2.21E-07	30YrCance	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	UCART3	488942.5	3858581	2.37E-07	30YrCance	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL	UCART3	488972.3	3858581	2.54E-07	30YrCance	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL	UCART3	489002.1	3858581	2.76E-07	30YrCance	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	UCART3	489032	3858581	3.01E-07	30YrCance	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	UCART3	489061.8	3858581	3.32E-07	30YrCance	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	UCART3	489091.6	3858581	3.69E-07	30YrCance	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	UCART3	489121.4	3858581	4.16E-07	30YrCance	4.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	UCART3	489151.2	3858581	4.79E-07	30YrCance	4.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	UCART3	489181.1	3858581	5.70E-07	30YrCance	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	UCART3	488584.7	3858606	1.41E-07	30YrCance	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	UCART3	488614.5	3858606	1.45E-07	30YrCance	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	UCART3	488644.3	3858606	1.49E-07	30YrCance	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	UCART3	488674.1	3858606	1.54E-07	30YrCance	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	UCART3	488703.9	3858606	1.60E-07	30YrCance	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	UCART3	488733.8	3858606	1.67E-07	30YrCance	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	UCART3	488763.6	3858606	1.74E-07	30YrCance	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	UCART3	488793.4	3858606	1.83E-07	30YrCance	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	UCART3	488823.2	3858606	1.92E-07	30YrCance	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	UCART3	488853	3858606	2.02E-07	30YrCance	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL	UCART3	488882.9	3858606	2.14E-07	30YrCance	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL	UCART3	488912.7	3858606	2.28E-07	30YrCance	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	UCART3	488942.5	3858606	2.44E-07	30YrCance	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	UCART3	488972.3	3858606	2.63E-07	30YrCance	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	UCART3	489002.1	3858606	2.86E-07	30YrCance	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	UCART3	489032	3858606	3.12E-07	30YrCance	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	UCART3	489061.8	3858606	3.43E-07	30YrCance	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	UCART3	489091.6	3858606	3.82E-07	30YrCance	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	UCART3	489121.4	3858606	4.29E-07	30YrCance	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	UCART3	489151.2	3858606	4.97E-07	30YrCance	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	UCART3	489181.1	3858606	6.03E-07	30YrCance	6.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	UCART3	488584.7	3858631	1.43E-07	30YrCance	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	UCART3	488614.5	3858631	1.47E-07	30YrCance	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	UCART3	488644.3	3858631	1.52E-07	30YrCance	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	UCART3	488674.1	3858631	1.58E-07	30YrCance	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	UCART3	488703.9	3858631	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	UCART3	488733.8	3858631	1.70E-07	30YrCance	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	UCART3	488763.6	3858631	1.78E-07	30YrCance	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1079	ALL	UCART3	488793.4	3858631	1.86E-07	30YrCance	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	UCART3	488823.2	3858631	1.96E-07	30YrCance	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL	UCART3	488853	3858631	2.07E-07	30YrCance	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	UCART3	488882.9	3858631	2.20E-07	30YrCance	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	UCART3	488912.7	3858631	2.34E-07	30YrCance	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	UCART3	488942.5	3858631	2.52E-07	30YrCance	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	UCART3	488972.3	3858631	2.71E-07	30YrCance	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	UCART3	489002.1	3858631	2.94E-07	30YrCance	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	UCART3	489032	3858631	3.20E-07	30YrCance	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	UCART3	489061.8	3858631	3.52E-07	30YrCance	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	UCART3	489091.6	3858631	3.92E-07	30YrCance	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	UCART3	489121.4	3858631	4.45E-07	30YrCance	4.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	ALL	UCART3	489151.2	3858631	5.21E-07	30YrCance	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092	ALL	UCART3	489181.1	3858631	6.45E-07	30YrCance	6.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	UCART3	488584.7	3858656	1.46E-07	30YrCance	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	UCART3	488614.5	3858656	1.50E-07	30YrCance	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	UCART3	488644.3	3858656	1.55E-07	30YrCance	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	UCART3	488674.1	3858656	1.61E-07	30YrCance	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	UCART3	488703.9	3858656	1.67E-07	30YrCance	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	UCART3	488733.8	3858656	1.74E-07	30YrCance	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	ALL	UCART3	488763.6	3858656	1.81E-07	30YrCance	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	UCART3	488793.4	3858656	1.90E-07	30YrCance	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	UCART3	488823.2	3858656	2.00E-07	30YrCance	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL	UCART3	488853	3858656	2.12E-07	30YrCance	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL	UCART3	488882.9	3858656	2.25E-07	30YrCance	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL	UCART3	488912.7	3858656	2.41E-07	30YrCance	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL	UCART3	488942.5	3858656	2.58E-07	30YrCance	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL	UCART3	488972.3	3858656	2.76E-07	30YrCance	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	ALL	UCART3	489002.1	3858656	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL	UCART3	489032	3858656	3.26E-07	30YrCance	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL	UCART3	489061.8	3858656	3.61E-07	30YrCance	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL	UCART3	489091.6	3858656	4.04E-07	30YrCance	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	UCART3	489121.4	3858656	4.64E-07	30YrCance	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL	UCART3	489151.2	3858656	5.54E-07	30YrCance	5.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL	UCART3	489181.1	3858656	7.00E-07	30YrCance	7.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL	UCART3	488584.7	3858681	1.48E-07	30YrCance	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	ALL	UCART3	488614.5	3858681	1.53E-07	30YrCance	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL	UCART3	488644.3	3858681	1.58E-07	30YrCance	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	UCART3	488674.1	3858681	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	UCART3	488703.9	3858681	1.70E-07	30YrCance	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	UCART3	488733.8	3858681	1.77E-07	30YrCance	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	UCART3	488763.6	3858681	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	UCART3	488793.4	3858681	1.94E-07	30YrCance	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	UCART3	488823.2	3858681	2.05E-07	30YrCance	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	UCART3	488853	3858681	2.17E-07	30YrCance	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1124	ALL	UCART3	488882.9	3858681	2.30E-07	30YrCance	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	UCART3	488912.7	3858681	2.45E-07	30YrCance	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL	UCART3	488942.5	3858681	2.62E-07	30YrCance	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL	UCART3	488972.3	3858681	2.81E-07	30YrCance	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1128	ALL	UCART3	489002.1	3858681	3.04E-07	30YrCance	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	UCART3	489032	3858681	3.32E-07	30YrCance	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	UCART3	489061.8	3858681	3.68E-07	30YrCance	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	UCART3	489091.6	3858681	4.16E-07	30YrCance	4.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	UCART3	489121.4	3858681	4.87E-07	30YrCance	4.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	UCART3	489151.2	3858681	5.89E-07	30YrCance	5.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	UCART3	489181.1	3858681	7.65E-07	30YrCance	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	UCART3	488584.7	3858706	1.51E-07	30YrCance	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	UCART3	488614.5	3858706	1.56E-07	30YrCance	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	UCART3	488644.3	3858706	1.61E-07	30YrCance	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	UCART3	488674.1	3858706	1.67E-07	30YrCance	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	UCART3	488703.9	3858706	1.73E-07	30YrCance	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	UCART3	488733.8	3858706	1.80E-07	30YrCance	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	UCART3	488763.6	3858706	1.89E-07	30YrCance	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	UCART3	488793.4	3858706	1.98E-07	30YrCance	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	UCART3	488823.2	3858706	2.09E-07	30YrCance	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	UCART3	488853	3858706	2.20E-07	30YrCance	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	UCART3	488882.9	3858706	2.33E-07	30YrCance	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	UCART3	488912.7	3858706	2.48E-07	30YrCance	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	UCART3	488942.5	3858706	2.64E-07	30YrCance	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	UCART3	488972.3	3858706	2.84E-07	30YrCance	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	UCART3	489002.1	3858706	3.08E-07	30YrCance	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	UCART3	489032	3858706	3.39E-07	30YrCance	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	UCART3	489061.8	3858706	3.78E-07	30YrCance	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	UCART3	489091.6	3858706	4.31E-07	30YrCance	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	UCART3	489121.4	3858706	5.09E-07	30YrCance	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154	ALL	UCART3	489151.2	3858706	6.30E-07	30YrCance	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	UCART3	489181.1	3858706	8.37E-07	30YrCance	8.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	UCART3	488584.7	3858730	1.53E-07	30YrCance	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	UCART3	488614.5	3858730	1.58E-07	30YrCance	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	UCART3	488644.3	3858730	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	UCART3	488674.1	3858730	1.70E-07	30YrCance	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	UCART3	488703.9	3858730	1.76E-07	30YrCance	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	UCART3	488733.8	3858730	1.84E-07	30YrCance	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	UCART3	488763.6	3858730	1.93E-07	30YrCance	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	UCART3	488793.4	3858730	2.02E-07	30YrCance	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	UCART3	488823.2	3858730	2.12E-07	30YrCance	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	UCART3	488853	3858730	2.23E-07	30YrCance	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	UCART3	488882.9	3858730	2.36E-07	30YrCance	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	UCART3	488912.7	3858730	2.50E-07	30YrCance	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	UCART3	488942.5	3858730	2.67E-07	30YrCance	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1169	ALL	UCART3	488972.3	3858730	2.88E-07	30YrCance	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	UCART3	489002.1	3858730	3.14E-07	30YrCance	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	UCART3	489032	3858730	3.45E-07	30YrCance	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	UCART3	489061.8	3858730	3.87E-07	30YrCance	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	UCART3	489091.6	3858730	4.44E-07	30YrCance	4.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	UCART3	489121.4	3858730	5.26E-07	30YrCance	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL	UCART3	489151.2	3858730	6.60E-07	30YrCance	6.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	UCART3	489181.1	3858730	9.03E-07	30YrCance	9.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL	UCART3	488584.7	3858755	1.56E-07	30YrCance	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	UCART3	488614.5	3858755	1.61E-07	30YrCance	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	UCART3	488644.3	3858755	1.67E-07	30YrCance	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	UCART3	488674.1	3858755	1.73E-07	30YrCance	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	UCART3	488703.9	3858755	1.80E-07	30YrCance	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1182	ALL	UCART3	488733.8	3858755	1.88E-07	30YrCance	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1183	ALL	UCART3	488763.6	3858755	1.96E-07	30YrCance	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	UCART3	488793.4	3858755	2.04E-07	30YrCance	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	UCART3	488823.2	3858755	2.14E-07	30YrCance	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1186	ALL	UCART3	488853	3858755	2.25E-07	30YrCance	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1187	ALL	UCART3	488882.9	3858755	2.38E-07	30YrCance	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL	UCART3	488912.7	3858755	2.53E-07	30YrCance	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	UCART3	488942.5	3858755	2.70E-07	30YrCance	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	UCART3	488972.3	3858755	2.92E-07	30YrCance	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	UCART3	489002.1	3858755	3.18E-07	30YrCance	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	UCART3	489032	3858755	3.51E-07	30YrCance	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	UCART3	489061.8	3858755	3.94E-07	30YrCance	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	UCART3	489091.6	3858755	4.53E-07	30YrCance	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	UCART3	489121.4	3858755	5.38E-07	30YrCance	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	UCART3	489151.2	3858755	6.78E-07	30YrCance	6.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	UCART3	489181.1	3858755	9.36E-07	30YrCance	9.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	UCART3	488584.7	3858780	1.59E-07	30YrCance	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	UCART3	488614.5	3858780	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	UCART3	488644.3	3858780	1.70E-07	30YrCance	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	UCART3	488674.1	3858780	1.76E-07	30YrCance	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	UCART3	488703.9	3858780	1.83E-07	30YrCance	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	UCART3	488733.8	3858780	1.90E-07	30YrCance	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	UCART3	488763.6	3858780	1.98E-07	30YrCance	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	UCART3	488793.4	3858780	2.06E-07	30YrCance	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	UCART3	488823.2	3858780	2.15E-07	30YrCance	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	UCART3	488853	3858780	2.27E-07	30YrCance	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	UCART3	488882.9	3858780	2.40E-07	30YrCance	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	UCART3	488912.7	3858780	2.55E-07	30YrCance	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	UCART3	488942.5	3858780	2.73E-07	30YrCance	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	UCART3	488972.3	3858780	2.96E-07	30YrCance	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	UCART3	489002.1	3858780	3.22E-07	30YrCance	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	UCART3	489032	3858780	3.55E-07	30YrCance	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1214	ALL	UCART3	489061.8	3858780	3.99E-07	30YrCance	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	UCART3	489091.6	3858780	4.58E-07	30YrCance	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	UCART3	489121.4	3858780	5.46E-07	30YrCance	5.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	UCART3	489151.2	3858780	6.87E-07	30YrCance	6.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	UCART3	489181.1	3858780	9.49E-07	30YrCance	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	UCART3	488584.7	3858805	1.62E-07	30YrCance	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	ALL	UCART3	488614.5	3858805	1.68E-07	30YrCance	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	UCART3	488644.3	3858805	1.73E-07	30YrCance	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	ALL	UCART3	488674.1	3858805	1.79E-07	30YrCance	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	UCART3	488703.9	3858805	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	UCART3	488733.8	3858805	1.91E-07	30YrCance	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	UCART3	488763.6	3858805	1.99E-07	30YrCance	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	UCART3	488793.4	3858805	2.07E-07	30YrCance	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	UCART3	488823.2	3858805	2.17E-07	30YrCance	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	UCART3	488853	3858805	2.28E-07	30YrCance	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1229	ALL	UCART3	488882.9	3858805	2.41E-07	30YrCance	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1230	ALL	UCART3	488912.7	3858805	2.57E-07	30YrCance	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1231	ALL	UCART3	488942.5	3858805	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1232	ALL	UCART3	488972.3	3858805	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	ALL	UCART3	489002.1	3858805	3.24E-07	30YrCance	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1234	ALL	UCART3	489032	3858805	3.58E-07	30YrCance	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	ALL	UCART3	489061.8	3858805	4.03E-07	30YrCance	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	ALL	UCART3	489091.6	3858805	4.63E-07	30YrCance	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1237	ALL	UCART3	489121.4	3858805	5.52E-07	30YrCance	5.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	ALL	UCART3	489151.2	3858805	6.95E-07	30YrCance	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	ALL	UCART3	489181.1	3858805	9.53E-07	30YrCance	9.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	ALL	UCART3	488584.7	3858830	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	ALL	UCART3	488614.5	3858830	1.69E-07	30YrCance	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	ALL	UCART3	488644.3	3858830	1.75E-07	30YrCance	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	ALL	UCART3	488674.1	3858830	1.81E-07	30YrCance	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1244	ALL	UCART3	488703.9	3858830	1.86E-07	30YrCance	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1245	ALL	UCART3	488733.8	3858830	1.93E-07	30YrCance	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	ALL	UCART3	488763.6	3858830	2.00E-07	30YrCance	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	ALL	UCART3	488793.4	3858830	2.09E-07	30YrCance	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	ALL	UCART3	488823.2	3858830	2.19E-07	30YrCance	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	ALL	UCART3	488853	3858830	2.30E-07	30YrCance	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1250	ALL	UCART3	488882.9	3858830	2.44E-07	30YrCance	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	ALL	UCART3	488912.7	3858830	2.60E-07	30YrCance	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	ALL	UCART3	488942.5	3858830	2.77E-07	30YrCance	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	ALL	UCART3	488972.3	3858830	3.00E-07	30YrCance	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	ALL	UCART3	489002.1	3858830	3.26E-07	30YrCance	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	ALL	UCART3	489032	3858830	3.60E-07	30YrCance	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1256	ALL	UCART3	489061.8	3858830	4.05E-07	30YrCance	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	ALL	UCART3	489091.6	3858830	4.69E-07	30YrCance	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	ALL	UCART3	489121.4	3858830	5.59E-07	30YrCance	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1259	ALL	UCART3	489151.2	3858830	6.95E-07	30YrCance	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1260	ALL	UCART3	489181.1	3858830	9.53E-07	30YrCance	9.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1261	ALL	UCART3	488584.7	3858855	1.66E-07	30YrCance	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	ALL	UCART3	488614.5	3858855	1.71E-07	30YrCance	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	ALL	UCART3	488644.3	3858855	1.76E-07	30YrCance	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1264	ALL	UCART3	488674.1	3858855	1.82E-07	30YrCance	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	ALL	UCART3	488703.9	3858855	1.88E-07	30YrCance	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	ALL	UCART3	488733.8	3858855	1.95E-07	30YrCance	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	ALL	UCART3	488763.6	3858855	2.02E-07	30YrCance	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	ALL	UCART3	488793.4	3858855	2.11E-07	30YrCance	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1269	ALL	UCART3	488823.2	3858855	2.21E-07	30YrCance	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	ALL	UCART3	488853	3858855	2.32E-07	30YrCance	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	ALL	UCART3	488882.9	3858855	2.46E-07	30YrCance	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1272	ALL	UCART3	488912.7	3858855	2.61E-07	30YrCance	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1273	ALL	UCART3	488942.5	3858855	2.79E-07	30YrCance	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1274	ALL	UCART3	488972.3	3858855	3.01E-07	30YrCance	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1275	ALL	UCART3	489002.1	3858855	3.30E-07	30YrCance	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1276	ALL	UCART3	489032	3858855	3.63E-07	30YrCance	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	ALL	UCART3	489061.8	3858855	4.08E-07	30YrCance	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	ALL	UCART3	489091.6	3858855	4.70E-07	30YrCance	4.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	ALL	UCART3	489121.4	3858855	5.59E-07	30YrCance	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	ALL	UCART3	489151.2	3858855	6.99E-07	30YrCance	6.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	ALL	UCART3	489181.1	3858855	9.51E-07	30YrCance	9.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1282	ALL	UCART3	488584.7	3858880	1.68E-07	30YrCance	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	ALL	UCART3	488614.5	3858880	1.73E-07	30YrCance	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1284	ALL	UCART3	488644.3	3858880	1.78E-07	30YrCance	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	ALL	UCART3	488674.1	3858880	1.83E-07	30YrCance	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	ALL	UCART3	488703.9	3858880	1.89E-07	30YrCance	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1287	ALL	UCART3	488733.8	3858880	1.97E-07	30YrCance	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	ALL	UCART3	488763.6	3858880	2.04E-07	30YrCance	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	ALL	UCART3	488793.4	3858880	2.13E-07	30YrCance	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1290	ALL	UCART3	488823.2	3858880	2.23E-07	30YrCance	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	ALL	UCART3	488853	3858880	2.34E-07	30YrCance	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1292	ALL	UCART3	488882.9	3858880	2.47E-07	30YrCance	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	ALL	UCART3	488912.7	3858880	2.63E-07	30YrCance	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1294	ALL	UCART3	488942.5	3858880	2.80E-07	30YrCance	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	ALL	UCART3	488972.3	3858880	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	ALL	UCART3	489002.1	3858880	3.32E-07	30YrCance	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1297	ALL	UCART3	489032	3858880	3.67E-07	30YrCance	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	ALL	UCART3	489061.8	3858880	4.12E-07	30YrCance	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1299	ALL	UCART3	489091.6	3858880	4.73E-07	30YrCance	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	ALL	UCART3	489121.4	3858880	5.60E-07	30YrCance	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1301	ALL	UCART3	489151.2	3858880	6.98E-07	30YrCance	6.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1302	ALL	UCART3	489181.1	3858880	9.48E-07	30YrCance	9.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1303	ALL	UCART3	488584.7	3858905	1.69E-07	30YrCance	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1304	ALL	UCART3	488614.5	3858905	1.74E-07	30YrCance	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1305	ALL	UCART3	488644.3	3858905	1.79E-07	30YrCance	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1306	ALL	UCART3	488674.1	3858905	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1307	ALL	UCART3	488703.9	3858905	1.91E-07	30YrCance	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1308	ALL	UCART3	488733.8	3858905	1.98E-07	30YrCance	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1309	ALL	UCART3	488763.6	3858905	2.06E-07	30YrCance	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1310	ALL	UCART3	488793.4	3858905	2.15E-07	30YrCance	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1311	ALL	UCART3	488823.2	3858905	2.25E-07	30YrCance	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1312	ALL	UCART3	488853	3858905	2.36E-07	30YrCance	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1313	ALL	UCART3	488882.9	3858905	2.49E-07	30YrCance	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314	ALL	UCART3	488912.7	3858905	2.64E-07	30YrCance	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1315	ALL	UCART3	488942.5	3858905	2.82E-07	30YrCance	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1316	ALL	UCART3	488972.3	3858905	3.06E-07	30YrCance	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1317	ALL	UCART3	489002.1	3858905	3.34E-07	30YrCance	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1318	ALL	UCART3	489032	3858905	3.69E-07	30YrCance	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1319	ALL	UCART3	489061.8	3858905	4.14E-07	30YrCance	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1320	ALL	UCART3	489091.6	3858905	4.75E-07	30YrCance	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1321	ALL	UCART3	489121.4	3858905	5.61E-07	30YrCance	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1322	ALL	UCART3	489151.2	3858905	6.94E-07	30YrCance	6.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1323	ALL	UCART3	489181.1	3858905	9.48E-07	30YrCance	9.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1324	ALL	UCART4	489386.1	3861173	2.32E-06	30YrCance	2.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1325	ALL	UCART4	489460.6	3861173	2.43E-06	30YrCance	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1326	ALL	UCART4	489535.1	3861173	2.39E-06	30YrCance	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1327	ALL	UCART4	489609.7	3861173	2.47E-06	30YrCance	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1328	ALL	UCART4	489684.2	3861173	2.51E-06	30YrCance	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1329	ALL	UCART4	489758.7	3861173	2.53E-06	30YrCance	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330	ALL	UCART4	489833.2	3861173	2.55E-06	30YrCance	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1331	ALL	UCART4	489907.7	3861173	2.54E-06	30YrCance	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1332	ALL	UCART4	489982.3	3861173	2.52E-06	30YrCance	2.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1333	ALL	UCART4	490056.8	3861173	2.50E-06	30YrCance	2.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1334	ALL	UCART4	490131.3	3861173	2.43E-06	30YrCance	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1335	ALL	UCART4	490205.8	3861173	2.42E-06	30YrCance	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1336	ALL	UCART4	490280.3	3861173	2.39E-06	30YrCance	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1337	ALL	UCART4	490354.9	3861173	2.34E-06	30YrCance	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1338	ALL	UCART4	490429.4	3861173	2.34E-06	30YrCance	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1339	ALL	UCART4	490503.9	3861173	2.33E-06	30YrCance	2.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	ALL	UCART4	490578.4	3861173	2.29E-06	30YrCance	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341	ALL	UCART4	490652.9	3861173	2.22E-06	30YrCance	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342	ALL	UCART4	490727.5	3861173	2.20E-06	30YrCance	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1343	ALL	UCART4	490802	3861173	2.20E-06	30YrCance	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344	ALL	UCART4	490876.5	3861173	2.16E-06	30YrCance	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	ALL	UCART4	489386.1	3861198	1.49E-06	30YrCance	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	ALL	UCART4	489460.6	3861198	1.60E-06	30YrCance	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1347	ALL	UCART4	489535.1	3861198	1.63E-06	30YrCance	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1348	ALL	UCART4	489609.7	3861198	1.69E-06	30YrCance	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1349	ALL	UCART4	489684.2	3861198	1.74E-06	30YrCance	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1350	ALL	UCART4	489758.7	3861198	1.78E-06	30YrCance	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351	ALL	UCART4	489833.2	3861198	1.81E-06	30YrCance	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352	ALL	UCART4	489907.7	3861198	1.81E-06	30YrCance	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353	ALL	UCART4	489982.3	3861198	1.81E-06	30YrCance	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354	ALL	UCART4	490056.8	3861198	1.80E-06	30YrCance	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355	ALL	UCART4	490131.3	3861198	1.78E-06	30YrCance	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356	ALL	UCART4	490205.8	3861198	1.77E-06	30YrCance	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	ALL	UCART4	490280.3	3861198	1.78E-06	30YrCance	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1358	ALL	UCART4	490354.9	3861198	1.74E-06	30YrCance	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1359	ALL	UCART4	490429.4	3861198	1.74E-06	30YrCance	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	ALL	UCART4	490503.9	3861198	1.73E-06	30YrCance	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1361	ALL	UCART4	490578.4	3861198	1.72E-06	30YrCance	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	ALL	UCART4	490652.9	3861198	1.67E-06	30YrCance	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1363	ALL	UCART4	490727.5	3861198	1.67E-06	30YrCance	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1364	ALL	UCART4	490802	3861198	1.67E-06	30YrCance	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1365	ALL	UCART4	490876.5	3861198	1.64E-06	30YrCance	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1366	ALL	UCART4	489386.1	3861223	1.12E-06	30YrCance	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1367	ALL	UCART4	489460.6	3861223	1.20E-06	30YrCance	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368	ALL	UCART4	489535.1	3861223	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369	ALL	UCART4	489609.7	3861223	1.31E-06	30YrCance	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370	ALL	UCART4	489684.2	3861223	1.34E-06	30YrCance	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371	ALL	UCART4	489758.7	3861223	1.38E-06	30YrCance	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372	ALL	UCART4	489833.2	3861223	1.41E-06	30YrCance	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373	ALL	UCART4	489907.7	3861223	1.42E-06	30YrCance	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374	ALL	UCART4	489982.3	3861223	1.43E-06	30YrCance	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	ALL	UCART4	490056.8	3861223	1.43E-06	30YrCance	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	ALL	UCART4	490131.3	3861223	1.42E-06	30YrCance	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	ALL	UCART4	490205.8	3861223	1.42E-06	30YrCance	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	ALL	UCART4	490280.3	3861223	1.42E-06	30YrCance	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	ALL	UCART4	490354.9	3861223	1.40E-06	30YrCance	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	ALL	UCART4	490429.4	3861223	1.40E-06	30YrCance	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	ALL	UCART4	490503.9	3861223	1.39E-06	30YrCance	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382	ALL	UCART4	490578.4	3861223	1.40E-06	30YrCance	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383	ALL	UCART4	490652.9	3861223	1.36E-06	30YrCance	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384	ALL	UCART4	490727.5	3861223	1.36E-06	30YrCance	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385	ALL	UCART4	490802	3861223	1.36E-06	30YrCance	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386	ALL	UCART4	490876.5	3861223	1.35E-06	30YrCance	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387	ALL	UCART4	489386.1	3861248	9.10E-07	30YrCance	9.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388	ALL	UCART4	489460.6	3861248	9.63E-07	30YrCance	9.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1389	ALL	UCART4	489535.1	3861248	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1390	ALL	UCART4	489609.7	3861248	1.06E-06	30YrCance	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1391	ALL	UCART4	489684.2	3861248	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1392	ALL	UCART4	489758.7	3861248	1.13E-06	30YrCance	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1393	ALL	UCART4	489833.2	3861248	1.16E-06	30YrCance	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1394	ALL	UCART4	489907.7	3861248	1.18E-06	30YrCance	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1395	ALL	UCART4	489982.3	3861248	1.19E-06	30YrCance	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1396	ALL	UCART4	490056.8	3861248	1.19E-06	30YrCance	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1397	ALL	UCART4	490131.3	3861248	1.19E-06	30YrCance	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1398	ALL	UCART4	490205.8	3861248	1.19E-06	30YrCance	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1399	ALL	UCART4	490280.3	3861248	1.19E-06	30YrCance	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	ALL	UCART4	490354.9	3861248	1.18E-06	30YrCance	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1401	ALL	UCART4	490429.4	3861248	1.18E-06	30YrCance	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1402	ALL	UCART4	490503.9	3861248	1.18E-06	30YrCance	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1403	ALL	UCART4	490578.4	3861248	1.18E-06	30YrCance	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1404	ALL	UCART4	490652.9	3861248	1.16E-06	30YrCance	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1405	ALL	UCART4	490727.5	3861248	1.16E-06	30YrCance	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1406	ALL	UCART4	490802	3861248	1.16E-06	30YrCance	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1407	ALL	UCART4	490876.5	3861248	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1408	ALL	UCART4	489386.1	3861274	7.81E-07	30YrCance	7.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1409	ALL	UCART4	489460.6	3861274	8.18E-07	30YrCance	8.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1410	ALL	UCART4	489535.1	3861274	8.57E-07	30YrCance	8.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1411	ALL	UCART4	489609.7	3861274	8.97E-07	30YrCance	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1412	ALL	UCART4	489684.2	3861274	9.31E-07	30YrCance	9.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1413	ALL	UCART4	489758.7	3861274	9.61E-07	30YrCance	9.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1414	ALL	UCART4	489833.2	3861274	9.81E-07	30YrCance	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1415	ALL	UCART4	489907.7	3861274	1.00E-06	30YrCance	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1416	ALL	UCART4	489982.3	3861274	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1417	ALL	UCART4	490056.8	3861274	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1418	ALL	UCART4	490131.3	3861274	1.03E-06	30YrCance	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1419	ALL	UCART4	490205.8	3861274	1.03E-06	30YrCance	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1420	ALL	UCART4	490280.3	3861274	1.03E-06	30YrCance	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1421	ALL	UCART4	490354.9	3861274	1.03E-06	30YrCance	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1422	ALL	UCART4	490429.4	3861274	1.03E-06	30YrCance	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1423	ALL	UCART4	490503.9	3861274	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1424	ALL	UCART4	490578.4	3861274	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1425	ALL	UCART4	490652.9	3861274	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1426	ALL	UCART4	490727.5	3861274	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1427	ALL	UCART4	490802	3861274	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1428	ALL	UCART4	490876.5	3861274	1.00E-06	30YrCance	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1429	ALL	UCART4	489386.1	3861299	6.95E-07	30YrCance	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1430	ALL	UCART4	489460.6	3861299	7.20E-07	30YrCance	7.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1431	ALL	UCART4	489535.1	3861299	7.47E-07	30YrCance	7.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1432	ALL	UCART4	489609.7	3861299	7.75E-07	30YrCance	7.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1433	ALL	UCART4	489684.2	3861299	8.10E-07	30YrCance	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1434	ALL	UCART4	489758.7	3861299	8.33E-07	30YrCance	8.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1435	ALL	UCART4	489833.2	3861299	8.50E-07	30YrCance	8.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1436	ALL	UCART4	489907.7	3861299	8.68E-07	30YrCance	8.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1437	ALL	UCART4	489982.3	3861299	8.87E-07	30YrCance	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1438	ALL	UCART4	490056.8	3861299	8.94E-07	30YrCance	8.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1439	ALL	UCART4	490131.3	3861299	9.08E-07	30YrCance	9.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1440	ALL	UCART4	490205.8	3861299	9.05E-07	30YrCance	9.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1441	ALL	UCART4	490280.3	3861299	9.09E-07	30YrCance	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1442	ALL	UCART4	490354.9	3861299	9.07E-07	30YrCance	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1443	ALL	UCART4	490429.4	3861299	9.09E-07	30YrCance	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1444	ALL	UCART4	490503.9	3861299	9.07E-07	30YrCance	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1445	ALL	UCART4	490578.4	3861299	9.09E-07	30YrCance	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1446	ALL	UCART4	490652.9	3861299	8.98E-07	30YrCance	8.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1447	ALL	UCART4	490727.5	3861299	9.04E-07	30YrCance	9.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1448	ALL	UCART4	490802	3861299	9.01E-07	30YrCance	9.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1449	ALL	UCART4	490876.5	3861299	8.92E-07	30YrCance	8.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1450	ALL	UCART4	489386.1	3861324	6.32E-07	30YrCance	6.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1451	ALL	UCART4	489460.6	3861324	6.46E-07	30YrCance	6.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1452	ALL	UCART4	489535.1	3861324	6.62E-07	30YrCance	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1453	ALL	UCART4	489609.7	3861324	6.86E-07	30YrCance	6.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1454	ALL	UCART4	489684.2	3861324	7.11E-07	30YrCance	7.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1455	ALL	UCART4	489758.7	3861324	7.35E-07	30YrCance	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1456	ALL	UCART4	489833.2	3861324	7.52E-07	30YrCance	7.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1457	ALL	UCART4	489907.7	3861324	7.67E-07	30YrCance	7.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1458	ALL	UCART4	489982.3	3861324	7.82E-07	30YrCance	7.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1459	ALL	UCART4	490056.8	3861324	7.93E-07	30YrCance	7.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1460	ALL	UCART4	490131.3	3861324	8.03E-07	30YrCance	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1461	ALL	UCART4	490205.8	3861324	8.10E-07	30YrCance	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1462	ALL	UCART4	490280.3	3861324	8.12E-07	30YrCance	8.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1463	ALL	UCART4	490354.9	3861324	8.14E-07	30YrCance	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1464	ALL	UCART4	490429.4	3861324	8.14E-07	30YrCance	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1465	ALL	UCART4	490503.9	3861324	8.13E-07	30YrCance	8.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1466	ALL	UCART4	490578.4	3861324	8.12E-07	30YrCance	8.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1467	ALL	UCART4	490652.9	3861324	8.11E-07	30YrCance	8.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1468	ALL	UCART4	490727.5	3861324	8.08E-07	30YrCance	8.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1469	ALL	UCART4	490802	3861324	8.06E-07	30YrCance	8.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1470	ALL	UCART4	490876.5	3861324	8.03E-07	30YrCance	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1471	ALL	UCART4	489386.1	3861349	5.82E-07	30YrCance	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1472	ALL	UCART4	489460.6	3861349	5.87E-07	30YrCance	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1473	ALL	UCART4	489535.1	3861349	5.98E-07	30YrCance	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1474	ALL	UCART4	489609.7	3861349	6.18E-07	30YrCance	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1475	ALL	UCART4	489684.2	3861349	6.38E-07	30YrCance	6.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1476	ALL	UCART4	489758.7	3861349	6.58E-07	30YrCance	6.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1477	ALL	UCART4	489833.2	3861349	6.79E-07	30YrCance	6.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1478	ALL	UCART4	489907.7	3861349	6.88E-07	30YrCance	6.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1479	ALL	UCART4	489982.3	3861349	7.01E-07	30YrCance	7.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1480	ALL	UCART4	490056.8	3861349	7.12E-07	30YrCance	7.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1481	ALL	UCART4	490131.3	3861349	7.24E-07	30YrCance	7.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1482	ALL	UCART4	490205.8	3861349	7.36E-07	30YrCance	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1483	ALL	UCART4	490280.3	3861349	7.33E-07	30YrCance	7.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1484	ALL	UCART4	490354.9	3861349	7.34E-07	30YrCance	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1485	ALL	UCART4	490429.4	3861349	7.36E-07	30YrCance	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1486	ALL	UCART4	490503.9	3861349	7.38E-07	30YrCance	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1487	ALL	UCART4	490578.4	3861349	7.39E-07	30YrCance	7.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1488	ALL	UCART4	490652.9	3861349	7.37E-07	30YrCance	7.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1489	ALL	UCART4	490727.5	3861349	7.36E-07	30YrCance	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1490	ALL	UCART4	490802	3861349	7.34E-07	30YrCance	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1491	ALL	UCART4	490876.5	3861349	7.30E-07	30YrCance	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1492	ALL	UCART4	489386.1	3861374	5.42E-07	30YrCance	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1493	ALL	UCART4	489460.6	3861374	5.42E-07	30YrCance	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1494	ALL	UCART4	489535.1	3861374	5.48E-07	30YrCance	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1495	ALL	UCART4	489609.7	3861374	5.64E-07	30YrCance	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1496	ALL	UCART4	489684.2	3861374	5.81E-07	30YrCance	5.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1497	ALL	UCART4	489758.7	3861374	5.96E-07	30YrCance	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1498	ALL	UCART4	489833.2	3861374	6.16E-07	30YrCance	6.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1499	ALL	UCART4	489907.7	3861374	6.25E-07	30YrCance	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	ALL	UCART4	489982.3	3861374	6.35E-07	30YrCance	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1501	ALL	UCART4	490056.8	3861374	6.45E-07	30YrCance	6.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1502	ALL	UCART4	490131.3	3861374	6.58E-07	30YrCance	6.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1503	ALL	UCART4	490205.8	3861374	6.68E-07	30YrCance	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1504	ALL	UCART4	490280.3	3861374	6.68E-07	30YrCance	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1505	ALL	UCART4	490354.9	3861374	6.70E-07	30YrCance	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1506	ALL	UCART4	490429.4	3861374	6.74E-07	30YrCance	6.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1507	ALL	UCART4	490503.9	3861374	6.75E-07	30YrCance	6.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1508	ALL	UCART4	490578.4	3861374	6.77E-07	30YrCance	6.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1509	ALL	UCART4	490652.9	3861374	6.75E-07	30YrCance	6.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1510	ALL	UCART4	490727.5	3861374	6.76E-07	30YrCance	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1511	ALL	UCART4	490802	3861374	6.72E-07	30YrCance	6.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1512	ALL	UCART4	490876.5	3861374	6.68E-07	30YrCance	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1513	ALL	UCART4	489386.1	3861399	5.08E-07	30YrCance	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1514	ALL	UCART4	489460.6	3861399	5.06E-07	30YrCance	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1515	ALL	UCART4	489535.1	3861399	5.07E-07	30YrCance	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1516	ALL	UCART4	489609.7	3861399	5.18E-07	30YrCance	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1517	ALL	UCART4	489684.2	3861399	5.32E-07	30YrCance	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1518	ALL	UCART4	489758.7	3861399	5.45E-07	30YrCance	5.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1519	ALL	UCART4	489833.2	3861399	5.62E-07	30YrCance	5.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1520	ALL	UCART4	489907.7	3861399	5.74E-07	30YrCance	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1521	ALL	UCART4	489982.3	3861399	5.81E-07	30YrCance	5.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1522	ALL	UCART4	490056.8	3861399	5.89E-07	30YrCance	5.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1523	ALL	UCART4	490131.3	3861399	6.02E-07	30YrCance	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1524	ALL	UCART4	490205.8	3861399	6.13E-07	30YrCance	6.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1525	ALL	UCART4	490280.3	3861399	6.15E-07	30YrCance	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1526	ALL	UCART4	490354.9	3861399	6.16E-07	30YrCance	6.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1527	ALL	UCART4	490429.4	3861399	6.20E-07	30YrCance	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1528	ALL	UCART4	490503.9	3861399	6.20E-07	30YrCance	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1529	ALL	UCART4	490578.4	3861399	6.23E-07	30YrCance	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1530	ALL	UCART4	490652.9	3861399	6.22E-07	30YrCance	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1531	ALL	UCART4	490727.5	3861399	6.23E-07	30YrCance	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1532	ALL	UCART4	490802	3861399	6.20E-07	30YrCance	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1533	ALL	UCART4	490876.5	3861399	6.16E-07	30YrCance	6.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1534	ALL	UCART4	489386.1	3861424	4.78E-07	30YrCance	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1535	ALL	UCART4	489460.6	3861424	4.74E-07	30YrCance	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1536	ALL	UCART4	489535.1	3861424	4.74E-07	30YrCance	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1537	ALL	UCART4	489609.7	3861424	4.81E-07	30YrCance	4.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1538	ALL	UCART4	489684.2	3861424	4.91E-07	30YrCance	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1539	ALL	UCART4	489758.7	3861424	5.01E-07	30YrCance	5.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1540	ALL	UCART4	489833.2	3861424	5.15E-07	30YrCance	5.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1541	ALL	UCART4	489907.7	3861424	5.30E-07	30YrCance	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1542	ALL	UCART4	489982.3	3861424	5.36E-07	30YrCance	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1543	ALL	UCART4	490056.8	3861424	5.43E-07	30YrCance	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1544	ALL	UCART4	490131.3	3861424	5.55E-07	30YrCance	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1545	ALL	UCART4	490205.8	3861424	5.67E-07	30YrCance	5.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1546	ALL	UCART4	490280.3	3861424	5.70E-07	30YrCance	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1547	ALL	UCART4	490354.9	3861424	5.69E-07	30YrCance	5.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1548	ALL	UCART4	490429.4	3861424	5.73E-07	30YrCance	5.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1549	ALL	UCART4	490503.9	3861424	5.74E-07	30YrCance	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1550	ALL	UCART4	490578.4	3861424	5.77E-07	30YrCance	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1551	ALL	UCART4	490652.9	3861424	5.77E-07	30YrCance	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1552	ALL	UCART4	490727.5	3861424	5.76E-07	30YrCance	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1553	ALL	UCART4	490802	3861424	5.75E-07	30YrCance	5.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1554	ALL	UCART4	490876.5	3861424	5.71E-07	30YrCance	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1555	ALL	UCART4	489386.1	3861450	4.52E-07	30YrCance	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1556	ALL	UCART4	489460.6	3861450	4.45E-07	30YrCance	4.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1557	ALL	UCART4	489535.1	3861450	4.45E-07	30YrCance	4.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1558	ALL	UCART4	489609.7	3861450	4.50E-07	30YrCance	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1559	ALL	UCART4	489684.2	3861450	4.56E-07	30YrCance	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1560	ALL	UCART4	489758.7	3861450	4.65E-07	30YrCance	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1561	ALL	UCART4	489833.2	3861450	4.76E-07	30YrCance	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1562	ALL	UCART4	489907.7	3861450	4.86E-07	30YrCance	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1563	ALL	UCART4	489982.3	3861450	4.97E-07	30YrCance	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1564	ALL	UCART4	490056.8	3861450	5.03E-07	30YrCance	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1565	ALL	UCART4	490131.3	3861450	5.18E-07	30YrCance	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1566	ALL	UCART4	490205.8	3861450	5.26E-07	30YrCance	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1567	ALL	UCART4	490280.3	3861450	5.29E-07	30YrCance	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1568	ALL	UCART4	490354.9	3861450	5.28E-07	30YrCance	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1569	ALL	UCART4	490429.4	3861450	5.32E-07	30YrCance	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1570	ALL	UCART4	490503.9	3861450	5.34E-07	30YrCance	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1571	ALL	UCART4	490578.4	3861450	5.35E-07	30YrCance	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1572	ALL	UCART4	490652.9	3861450	5.36E-07	30YrCance	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1573	ALL	UCART4	490727.5	3861450	5.37E-07	30YrCance	5.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1574	ALL	UCART4	490802	3861450	5.35E-07	30YrCance	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1575	ALL	UCART4	490876.5	3861450	5.34E-07	30YrCance	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1576	ALL	UCART4	489386.1	3861475	4.31E-07	30YrCance	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1577	ALL	UCART4	489460.6	3861475	4.21E-07	30YrCance	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1578	ALL	UCART4	489535.1	3861475	4.19E-07	30YrCance	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1579	ALL	UCART4	489609.7	3861475	4.24E-07	30YrCance	4.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1580	ALL	UCART4	489684.2	3861475	4.30E-07	30YrCance	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1581	ALL	UCART4	489758.7	3861475	4.33E-07	30YrCance	4.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1582	ALL	UCART4	489833.2	3861475	4.43E-07	30YrCance	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1583	ALL	UCART4	489907.7	3861475	4.52E-07	30YrCance	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1584	ALL	UCART4	489982.3	3861475	4.67E-07	30YrCance	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1585	ALL	UCART4	490056.8	3861475	4.68E-07	30YrCance	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1586	ALL	UCART4	490131.3	3861475	4.76E-07	30YrCance	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1587	ALL	UCART4	490205.8	3861475	4.88E-07	30YrCance	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1588	ALL	UCART4	490280.3	3861475	4.94E-07	30YrCance	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1589	ALL	UCART4	490354.9	3861475	4.94E-07	30YrCance	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1590	ALL	UCART4	490429.4	3861475	4.96E-07	30YrCance	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1591	ALL	UCART4	490503.9	3861475	4.96E-07	30YrCance	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1592	ALL	UCART4	490578.4	3861475	4.98E-07	30YrCance	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1593	ALL	UCART4	490652.9	3861475	5.00E-07	30YrCance	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1594	ALL	UCART4	490727.5	3861475	5.00E-07	30YrCance	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1595	ALL	UCART4	490802	3861475	5.02E-07	30YrCance	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1596	ALL	UCART4	490876.5	3861475	4.99E-07	30YrCance	4.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1597	ALL	UCART4	489386.1	3861500	4.11E-07	30YrCance	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1598	ALL	UCART4	489460.6	3861500	3.99E-07	30YrCance	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1599	ALL	UCART4	489535.1	3861500	3.97E-07	30YrCance	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	ALL	UCART4	489609.7	3861500	3.99E-07	30YrCance	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1601	ALL	UCART4	489684.2	3861500	4.03E-07	30YrCance	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1602	ALL	UCART4	489758.7	3861500	4.07E-07	30YrCance	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1603	ALL	UCART4	489833.2	3861500	4.14E-07	30YrCance	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1604	ALL	UCART4	489907.7	3861500	4.22E-07	30YrCance	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1605	ALL	UCART4	489982.3	3861500	4.32E-07	30YrCance	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1606	ALL	UCART4	490056.8	3861500	4.39E-07	30YrCance	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1607	ALL	UCART4	490131.3	3861500	4.44E-07	30YrCance	4.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1608	ALL	UCART4	490205.8	3861500	4.52E-07	30YrCance	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1609	ALL	UCART4	490280.3	3861500	4.59E-07	30YrCance	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1610	ALL	UCART4	490354.9	3861500	4.63E-07	30YrCance	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1611	ALL	UCART4	490429.4	3861500	4.62E-07	30YrCance	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1612	ALL	UCART4	490503.9	3861500	4.63E-07	30YrCance	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1613	ALL	UCART4	490578.4	3861500	4.66E-07	30YrCance	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1614	ALL	UCART4	490652.9	3861500	4.68E-07	30YrCance	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1615	ALL	UCART4	490727.5	3861500	4.69E-07	30YrCance	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1616	ALL	UCART4	490802	3861500	4.69E-07	30YrCance	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1617	ALL	UCART4	490876.5	3861500	4.67E-07	30YrCance	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1618	ALL	UCART4	489386.1	3861525	3.93E-07	30YrCance	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1619	ALL	UCART4	489460.6	3861525	3.80E-07	30YrCance	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1620	ALL	UCART4	489535.1	3861525	3.77E-07	30YrCance	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1621	ALL	UCART4	489609.7	3861525	3.77E-07	30YrCance	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1622	ALL	UCART4	489684.2	3861525	3.80E-07	30YrCance	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1623	ALL	UCART4	489758.7	3861525	3.84E-07	30YrCance	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1624	ALL	UCART4	489833.2	3861525	3.90E-07	30YrCance	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1625	ALL	UCART4	489907.7	3861525	3.97E-07	30YrCance	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1626	ALL	UCART4	489982.3	3861525	4.03E-07	30YrCance	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1627	ALL	UCART4	490056.8	3861525	4.11E-07	30YrCance	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1628	ALL	UCART4	490131.3	3861525	4.18E-07	30YrCance	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1629	ALL	UCART4	490205.8	3861525	4.22E-07	30YrCance	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1630	ALL	UCART4	490280.3	3861525	4.29E-07	30YrCance	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1631	ALL	UCART4	490354.9	3861525	4.32E-07	30YrCance	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1632	ALL	UCART4	490429.4	3861525	4.33E-07	30YrCance	4.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1633	ALL	UCART4	490503.9	3861525	4.34E-07	30YrCance	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1634	ALL	UCART4	490578.4	3861525	4.37E-07	30YrCance	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1635	ALL	UCART4	490652.9	3861525	4.38E-07	30YrCance	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1636	ALL	UCART4	490727.5	3861525	4.40E-07	30YrCance	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1637	ALL	UCART4	490802	3861525	4.40E-07	30YrCance	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1638	ALL	UCART4	490876.5	3861525	4.39E-07	30YrCance	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1639	ALL	UCART4	489386.1	3861550	3.77E-07	30YrCance	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1640	ALL	UCART4	489460.6	3861550	3.62E-07	30YrCance	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1641	ALL	UCART4	489535.1	3861550	3.58E-07	30YrCance	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1642	ALL	UCART4	489609.7	3861550	3.59E-07	30YrCance	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1643	ALL	UCART4	489684.2	3861550	3.62E-07	30YrCance	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1644	ALL	UCART4	489758.7	3861550	3.65E-07	30YrCance	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1645	ALL	UCART4	489833.2	3861550	3.69E-07	30YrCance	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1646	ALL	UCART4	489907.7	3861550	3.74E-07	30YrCance	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1647	ALL	UCART4	489982.3	3861550	3.81E-07	30YrCance	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1648	ALL	UCART4	490056.8	3861550	3.84E-07	30YrCance	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1649	ALL	UCART4	490131.3	3861550	3.93E-07	30YrCance	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1650	ALL	UCART4	490205.8	3861550	3.98E-07	30YrCance	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1651	ALL	UCART4	490280.3	3861550	4.03E-07	30YrCance	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1652	ALL	UCART4	490354.9	3861550	4.03E-07	30YrCance	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1653	ALL	UCART4	490429.4	3861550	4.08E-07	30YrCance	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1654	ALL	UCART4	490503.9	3861550	4.08E-07	30YrCance	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1655	ALL	UCART4	490578.4	3861550	4.11E-07	30YrCance	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1656	ALL	UCART4	490652.9	3861550	4.12E-07	30YrCance	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1657	ALL	UCART4	490727.5	3861550	4.13E-07	30YrCance	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1658	ALL	UCART4	490802	3861550	4.15E-07	30YrCance	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1659	ALL	UCART4	490876.5	3861550	4.14E-07	30YrCance	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1660	ALL	UCART4	489386.1	3861575	3.61E-07	30YrCance	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1661	ALL	UCART4	489460.6	3861575	3.47E-07	30YrCance	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1662	ALL	UCART4	489535.1	3861575	3.41E-07	30YrCance	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1663	ALL	UCART4	489609.7	3861575	3.42E-07	30YrCance	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1664	ALL	UCART4	489684.2	3861575	3.47E-07	30YrCance	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1665	ALL	UCART4	489758.7	3861575	3.49E-07	30YrCance	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1666	ALL	UCART4	489833.2	3861575	3.52E-07	30YrCance	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1667	ALL	UCART4	489907.7	3861575	3.53E-07	30YrCance	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1668	ALL	UCART4	489982.3	3861575	3.60E-07	30YrCance	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1669	ALL	UCART4	490056.8	3861575	3.63E-07	30YrCance	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1670	ALL	UCART4	490131.3	3861575	3.67E-07	30YrCance	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1671	ALL	UCART4	490205.8	3861575	3.74E-07	30YrCance	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1672	ALL	UCART4	490280.3	3861575	3.78E-07	30YrCance	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1673	ALL	UCART4	490354.9	3861575	3.80E-07	30YrCance	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1674	ALL	UCART4	490429.4	3861575	3.83E-07	30YrCance	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1675	ALL	UCART4	490503.9	3861575	3.85E-07	30YrCance	3.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1676	ALL	UCART4	490578.4	3861575	3.88E-07	30YrCance	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1677	ALL	UCART4	490652.9	3861575	3.88E-07	30YrCance	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1678	ALL	UCART4	490727.5	3861575	3.90E-07	30YrCance	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1679	ALL	UCART4	490802	3861575	3.92E-07	30YrCance	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1680	ALL	UCART4	490876.5	3861575	3.92E-07	30YrCance	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1681	ALL	UCART4	489386.1	3861600	3.41E-07	30YrCance	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1682	ALL	UCART4	489460.6	3861600	3.33E-07	30YrCance	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1683	ALL	UCART4	489535.1	3861600	3.27E-07	30YrCance	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1684	ALL	UCART4	489609.7	3861600	3.27E-07	30YrCance	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1685	ALL	UCART4	489684.2	3861600	3.30E-07	30YrCance	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1686	ALL	UCART4	489758.7	3861600	3.34E-07	30YrCance	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1687	ALL	UCART4	489833.2	3861600	3.35E-07	30YrCance	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1688	ALL	UCART4	489907.7	3861600	3.37E-07	30YrCance	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1689	ALL	UCART4	489982.3	3861600	3.40E-07	30YrCance	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1690	ALL	UCART4	490056.8	3861600	3.44E-07	30YrCance	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1691	ALL	UCART4	490131.3	3861600	3.49E-07	30YrCance	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1692	ALL	UCART4	490205.8	3861600	3.53E-07	30YrCance	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1693	ALL	UCART4	490280.3	3861600	3.58E-07	30YrCance	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1694	ALL	UCART4	490354.9	3861600	3.60E-07	30YrCance	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1695	ALL	UCART4	490429.4	3861600	3.63E-07	30YrCance	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1696	ALL	UCART4	490503.9	3861600	3.64E-07	30YrCance	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1697	ALL	UCART4	490578.4	3861600	3.66E-07	30YrCance	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1698	ALL	UCART4	490652.9	3861600	3.67E-07	30YrCance	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1699	ALL	UCART4	490727.5	3861600	3.69E-07	30YrCance	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	ALL	UCART4	490802	3861600	3.71E-07	30YrCance	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1701	ALL	UCART4	490876.5	3861600	3.71E-07	30YrCance	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1702	ALL	UCART4	489386.1	3861625	3.29E-07	30YrCance	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1703	ALL	UCART4	489460.6	3861625	3.18E-07	30YrCance	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1704	ALL	UCART4	489535.1	3861625	3.14E-07	30YrCance	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1705	ALL	UCART4	489609.7	3861625	3.12E-07	30YrCance	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1706	ALL	UCART4	489684.2	3861625	3.13E-07	30YrCance	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1707	ALL	UCART4	489758.7	3861625	3.15E-07	30YrCance	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1708	ALL	UCART4	489833.2	3861625	3.17E-07	30YrCance	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1709	ALL	UCART4	489907.7	3861625	3.21E-07	30YrCance	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1710	ALL	UCART4	489982.3	3861625	3.20E-07	30YrCance	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1711	ALL	UCART4	490056.8	3861625	3.23E-07	30YrCance	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1712	ALL	UCART4	490131.3	3861625	3.27E-07	30YrCance	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1713	ALL	UCART4	490205.8	3861625	3.31E-07	30YrCance	3.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1714	ALL	UCART4	490280.3	3861625	3.36E-07	30YrCance	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1715	ALL	UCART4	490354.9	3861625	3.34E-07	30YrCance	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1716	ALL	UCART4	490429.4	3861625	3.36E-07	30YrCance	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1717	ALL	UCART4	490503.9	3861625	3.37E-07	30YrCance	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1718	ALL	UCART4	490578.4	3861625	3.44E-07	30YrCance	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1719	ALL	UCART4	490652.9	3861625	3.49E-07	30YrCance	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1720	ALL	UCART4	490727.5	3861625	3.50E-07	30YrCance	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1721	ALL	UCART4	490802	3861625	3.52E-07	30YrCance	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1722	ALL	UCART4	490876.5	3861625	3.53E-07	30YrCance	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1723	ALL	UCART4	489386.1	3861651	3.16E-07	30YrCance	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1724	ALL	UCART4	489460.6	3861651	3.07E-07	30YrCance	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1725	ALL	UCART4	489535.1	3861651	3.02E-07	30YrCance	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1726	ALL	UCART4	489609.7	3861651	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1727	ALL	UCART4	489684.2	3861651	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1728	ALL	UCART4	489758.7	3861651	3.00E-07	30YrCance	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1729	ALL	UCART4	489833.2	3861651	3.02E-07	30YrCance	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1730	ALL	UCART4	489907.7	3861651	3.04E-07	30YrCance	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1731	ALL	UCART4	489982.3	3861651	3.04E-07	30YrCance	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1732	ALL	UCART4	490056.8	3861651	3.06E-07	30YrCance	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1733	ALL	UCART4	490131.3	3861651	3.09E-07	30YrCance	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1734	ALL	UCART4	490205.8	3861651	3.11E-07	30YrCance	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1735	ALL	UCART4	490280.3	3861651	3.15E-07	30YrCance	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1736	ALL	UCART4	490354.9	3861651	3.14E-07	30YrCance	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1737	ALL	UCART4	490429.4	3861651	3.16E-07	30YrCance	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1738	ALL	UCART4	490503.9	3861651	3.18E-07	30YrCance	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1739	ALL	UCART4	490578.4	3861651	3.22E-07	30YrCance	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1740	ALL	UCART4	490652.9	3861651	3.28E-07	30YrCance	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1741	ALL	UCART4	490727.5	3861651	3.34E-07	30YrCance	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1742	ALL	UCART4	490802	3861651	3.34E-07	30YrCance	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1743	ALL	UCART4	490876.5	3861651	3.36E-07	30YrCance	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1744	ALL	UCART4	489386.1	3861676	3.05E-07	30YrCance	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1745	ALL	UCART4	489460.6	3861676	2.97E-07	30YrCance	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1746	ALL	UCART4	489535.1	3861676	2.88E-07	30YrCance	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1747	ALL	UCART4	489609.7	3861676	2.86E-07	30YrCance	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1748	ALL	UCART4	489684.2	3861676	2.85E-07	30YrCance	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1749	ALL	UCART4	489758.7	3861676	2.86E-07	30YrCance	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1750	ALL	UCART4	489833.2	3861676	2.88E-07	30YrCance	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1751	ALL	UCART4	489907.7	3861676	2.90E-07	30YrCance	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1752	ALL	UCART4	489982.3	3861676	2.91E-07	30YrCance	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1753	ALL	UCART4	490056.8	3861676	2.93E-07	30YrCance	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1754	ALL	UCART4	490131.3	3861676	2.95E-07	30YrCance	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1755	ALL	UCART4	490205.8	3861676	2.95E-07	30YrCance	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1756	ALL	UCART4	490280.3	3861676	2.96E-07	30YrCance	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1757	ALL	UCART4	490354.9	3861676	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1758	ALL	UCART4	490429.4	3861676	3.01E-07	30YrCance	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1759	ALL	UCART4	490503.9	3861676	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1760	ALL	UCART4	490578.4	3861676	3.04E-07	30YrCance	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1761	ALL	UCART4	490652.9	3861676	3.08E-07	30YrCance	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1762	ALL	UCART4	490727.5	3861676	3.15E-07	30YrCance	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1763	ALL	UCART4	490802	3861676	3.15E-07	30YrCance	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1764	ALL	UCART4	490876.5	3861676	3.17E-07	30YrCance	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1765	ALL	UCART5	491611.2	3861105	1.36E-06	30YrCance	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1766	ALL	UCART5	491642	3861105	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1767	ALL	UCART5	491672.8	3861105	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1768	ALL	UCART5	491703.6	3861105	1.07E-06	30YrCance	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1769	ALL	UCART5	491734.4	3861105	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1770	ALL	UCART5	491765.2	3861105	9.47E-07	30YrCance	9.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1771	ALL	UCART5	491795.9	3861105	8.95E-07	30YrCance	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1772	ALL	UCART5	491826.7	3861105	8.52E-07	30YrCance	8.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1773	ALL	UCART5	491857.5	3861105	8.14E-07	30YrCance	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1774	ALL	UCART5	491888.3	3861105	7.79E-07	30YrCance	7.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1775	ALL	UCART5	491919.1	3861105	7.48E-07	30YrCance	7.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1776	ALL	UCART5	491949.9	3861105	7.20E-07	30YrCance	7.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1777	ALL	UCART5	491980.7	3861105	6.94E-07	30YrCance	6.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1778	ALL	UCART5	492011.5	3861105	6.71E-07	30YrCance	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1779	ALL	UCART5	492042.3	3861105	6.49E-07	30YrCance	6.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1780	ALL	UCART5	492073.1	3861105	6.29E-07	30YrCance	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1781	ALL	UCART5	492103.8	3861105	6.11E-07	30YrCance	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1782	ALL	UCART5	492134.6	3861105	5.93E-07	30YrCance	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1783	ALL	UCART5	492165.4	3861105	5.76E-07	30YrCance	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1784	ALL	UCART5	492196.2	3861105	5.62E-07	30YrCance	5.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1785	ALL	UCART5	492227	3861105	5.47E-07	30YrCance	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1786	ALL	UCART5	491611.2	3861134	1.27E-06	30YrCance	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1787	ALL	UCART5	491642	3861134	1.18E-06	30YrCance	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1788	ALL	UCART5	491672.8	3861134	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1789	ALL	UCART5	491703.6	3861134	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1790	ALL	UCART5	491734.4	3861134	9.58E-07	30YrCance	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1791	ALL	UCART5	491765.2	3861134	9.04E-07	30YrCance	9.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1792	ALL	UCART5	491795.9	3861134	8.62E-07	30YrCance	8.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1793	ALL	UCART5	491826.7	3861134	8.19E-07	30YrCance	8.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1794	ALL	UCART5	491857.5	3861134	7.84E-07	30YrCance	7.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1795	ALL	UCART5	491888.3	3861134	7.51E-07	30YrCance	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1796	ALL	UCART5	491919.1	3861134	7.23E-07	30YrCance	7.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1797	ALL	UCART5	491949.9	3861134	6.97E-07	30YrCance	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1798	ALL	UCART5	491980.7	3861134	6.72E-07	30YrCance	6.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1799	ALL	UCART5	492011.5	3861134	6.50E-07	30YrCance	6.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1800	ALL	UCART5	492042.3	3861134	6.29E-07	30YrCance	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1801	ALL	UCART5	492073.1	3861134	6.10E-07	30YrCance	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1802	ALL	UCART5	492103.8	3861134	5.93E-07	30YrCance	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1803	ALL	UCART5	492134.6	3861134	5.76E-07	30YrCance	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1804	ALL	UCART5	492165.4	3861134	5.60E-07	30YrCance	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1805	ALL	UCART5	492196.2	3861134	5.46E-07	30YrCance	5.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1806	ALL	UCART5	492227	3861134	5.32E-07	30YrCance	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1807	ALL	UCART5	491611.2	3861163	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1808	ALL	UCART5	491642	3861163	1.07E-06	30YrCance	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1809	ALL	UCART5	491672.8	3861163	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1810	ALL	UCART5	491703.6	3861163	9.50E-07	30YrCance	9.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1811	ALL	UCART5	491734.4	3861163	8.97E-07	30YrCance	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1812	ALL	UCART5	491765.2	3861163	8.51E-07	30YrCance	8.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1813	ALL	UCART5	491795.9	3861163	8.14E-07	30YrCance	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1814	ALL	UCART5	491826.7	3861163	7.78E-07	30YrCance	7.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1815	ALL	UCART5	491857.5	3861163	7.48E-07	30YrCance	7.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1816	ALL	UCART5	491888.3	3861163	7.20E-07	30YrCance	7.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1817	ALL	UCART5	491919.1	3861163	6.94E-07	30YrCance	6.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1818	ALL	UCART5	491949.9	3861163	6.69E-07	30YrCance	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1819	ALL	UCART5	491980.7	3861163	6.47E-07	30YrCance	6.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1820	ALL	UCART5	492011.5	3861163	6.27E-07	30YrCance	6.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1821	ALL	UCART5	492042.3	3861163	6.07E-07	30YrCance	6.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1822	ALL	UCART5	492073.1	3861163	5.90E-07	30YrCance	5.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1823	ALL	UCART5	492103.8	3861163	5.74E-07	30YrCance	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1824	ALL	UCART5	492134.6	3861163	5.58E-07	30YrCance	5.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1825	ALL	UCART5	492165.4	3861163	5.43E-07	30YrCance	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1826	ALL	UCART5	492196.2	3861163	5.29E-07	30YrCance	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1827	ALL	UCART5	492227	3861163	5.15E-07	30YrCance	5.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1828	ALL	UCART5	491611.2	3861193	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1829	ALL	UCART5	491642	3861193	9.63E-07	30YrCance	9.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1830	ALL	UCART5	491672.8	3861193	9.16E-07	30YrCance	9.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1831	ALL	UCART5	491703.6	3861193	8.72E-07	30YrCance	8.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1832	ALL	UCART5	491734.4	3861193	8.31E-07	30YrCance	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1833	ALL	UCART5	491765.2	3861193	7.95E-07	30YrCance	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1834	ALL	UCART5	491795.9	3861193	7.62E-07	30YrCance	7.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1835	ALL	UCART5	491826.7	3861193	7.33E-07	30YrCance	7.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1836	ALL	UCART5	491857.5	3861193	7.08E-07	30YrCance	7.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1837	ALL	UCART5	491888.3	3861193	6.83E-07	30YrCance	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1838	ALL	UCART5	491919.1	3861193	6.60E-07	30YrCance	6.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1839	ALL	UCART5	491949.9	3861193	6.39E-07	30YrCance	6.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1840	ALL	UCART5	491980.7	3861193	6.19E-07	30YrCance	6.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1841	ALL	UCART5	492011.5	3861193	6.01E-07	30YrCance	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1842	ALL	UCART5	492042.3	3861193	5.83E-07	30YrCance	5.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1843	ALL	UCART5	492073.1	3861193	5.67E-07	30YrCance	5.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1844	ALL	UCART5	492103.8	3861193	5.52E-07	30YrCance	5.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1845	ALL	UCART5	492134.6	3861193	5.38E-07	30YrCance	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1846	ALL	UCART5	492165.4	3861193	5.24E-07	30YrCance	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1847	ALL	UCART5	492196.2	3861193	5.11E-07	30YrCance	5.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1848	ALL	UCART5	492227	3861193	4.98E-07	30YrCance	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1849	ALL	UCART5	491611.2	3861222	8.97E-07	30YrCance	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1850	ALL	UCART5	491642	3861222	8.62E-07	30YrCance	8.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1851	ALL	UCART5	491672.8	3861222	8.27E-07	30YrCance	8.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1852	ALL	UCART5	491703.6	3861222	7.96E-07	30YrCance	7.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1853	ALL	UCART5	491734.4	3861222	7.66E-07	30YrCance	7.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1854	ALL	UCART5	491765.2	3861222	7.38E-07	30YrCance	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1855	ALL	UCART5	491795.9	3861222	7.12E-07	30YrCance	7.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1856	ALL	UCART5	491826.7	3861222	6.88E-07	30YrCance	6.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1857	ALL	UCART5	491857.5	3861222	6.66E-07	30YrCance	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1858	ALL	UCART5	491888.3	3861222	6.45E-07	30YrCance	6.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1859	ALL	UCART5	491919.1	3861222	6.26E-07	30YrCance	6.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1860	ALL	UCART5	491949.9	3861222	6.08E-07	30YrCance	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1861	ALL	UCART5	491980.7	3861222	5.90E-07	30YrCance	5.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1862	ALL	UCART5	492011.5	3861222	5.74E-07	30YrCance	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1863	ALL	UCART5	492042.3	3861222	5.58E-07	30YrCance	5.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1864	ALL	UCART5	492073.1	3861222	5.44E-07	30YrCance	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1865	ALL	UCART5	492103.8	3861222	5.31E-07	30YrCance	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1866	ALL	UCART5	492134.6	3861222	5.17E-07	30YrCance	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1867	ALL	UCART5	492165.4	3861222	5.05E-07	30YrCance	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1868	ALL	UCART5	492196.2	3861222	4.93E-07	30YrCance	4.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1869	ALL	UCART5	492227	3861222	4.81E-07	30YrCance	4.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1870	ALL	UCART5	491611.2	3861252	7.98E-07	30YrCance	7.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1871	ALL	UCART5	491642	3861252	7.74E-07	30YrCance	7.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1872	ALL	UCART5	491672.8	3861252	7.50E-07	30YrCance	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1873	ALL	UCART5	491703.6	3861252	7.28E-07	30YrCance	7.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1874	ALL	UCART5	491734.4	3861252	7.05E-07	30YrCance	7.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1875	ALL	UCART5	491765.2	3861252	6.84E-07	30YrCance	6.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1876	ALL	UCART5	491795.9	3861252	6.63E-07	30YrCance	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1877	ALL	UCART5	491826.7	3861252	6.44E-07	30YrCance	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1878	ALL	UCART5	491857.5	3861252	6.26E-07	30YrCance	6.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1879	ALL	UCART5	491888.3	3861252	6.08E-07	30YrCance	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1880	ALL	UCART5	491919.1	3861252	5.92E-07	30YrCance	5.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1881	ALL	UCART5	491949.9	3861252	5.76E-07	30YrCance	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1882	ALL	UCART5	491980.7	3861252	5.62E-07	30YrCance	5.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1883	ALL	UCART5	492011.5	3861252	5.48E-07	30YrCance	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1884	ALL	UCART5	492042.3	3861252	5.34E-07	30YrCance	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1885	ALL	UCART5	492073.1	3861252	5.21E-07	30YrCance	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1886	ALL	UCART5	492103.8	3861252	5.09E-07	30YrCance	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1887	ALL	UCART5	492134.6	3861252	4.97E-07	30YrCance	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1888	ALL	UCART5	492165.4	3861252	4.86E-07	30YrCance	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1889	ALL	UCART5	492196.2	3861252	4.75E-07	30YrCance	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1890	ALL	UCART5	492227	3861252	4.65E-07	30YrCance	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1891	ALL	UCART5	491611.2	3861281	7.17E-07	30YrCance	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1892	ALL	UCART5	491642	3861281	7.00E-07	30YrCance	7.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1893	ALL	UCART5	491672.8	3861281	6.83E-07	30YrCance	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1894	ALL	UCART5	491703.6	3861281	6.66E-07	30YrCance	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1895	ALL	UCART5	491734.4	3861281	6.50E-07	30YrCance	6.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1896	ALL	UCART5	491765.2	3861281	6.33E-07	30YrCance	6.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1897	ALL	UCART5	491795.9	3861281	6.18E-07	30YrCance	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1898	ALL	UCART5	491826.7	3861281	6.02E-07	30YrCance	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1899	ALL	UCART5	491857.5	3861281	5.88E-07	30YrCance	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1900	ALL	UCART5	491888.3	3861281	5.73E-07	30YrCance	5.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1901	ALL	UCART5	491919.1	3861281	5.59E-07	30YrCance	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1902	ALL	UCART5	491949.9	3861281	5.46E-07	30YrCance	5.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1903	ALL	UCART5	491980.7	3861281	5.33E-07	30YrCance	5.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1904	ALL	UCART5	492011.5	3861281	5.22E-07	30YrCance	5.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1905	ALL	UCART5	492042.3	3861281	5.10E-07	30YrCance	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1906	ALL	UCART5	492073.1	3861281	4.98E-07	30YrCance	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1907	ALL	UCART5	492103.8	3861281	4.88E-07	30YrCance	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1908	ALL	UCART5	492134.6	3861281	4.77E-07	30YrCance	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1909	ALL	UCART5	492165.4	3861281	4.67E-07	30YrCance	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1910	ALL	UCART5	492196.2	3861281	4.58E-07	30YrCance	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1911	ALL	UCART5	492227	3861281	4.49E-07	30YrCance	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1912	ALL	UCART5	491611.2	3861311	6.51E-07	30YrCance	6.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1913	ALL	UCART5	491642	3861311	6.38E-07	30YrCance	6.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1914	ALL	UCART5	491672.8	3861311	6.25E-07	30YrCance	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1915	ALL	UCART5	491703.6	3861311	6.13E-07	30YrCance	6.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1916	ALL	UCART5	491734.4	3861311	6.00E-07	30YrCance	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1917	ALL	UCART5	491765.2	3861311	5.88E-07	30YrCance	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1918	ALL	UCART5	491795.9	3861311	5.75E-07	30YrCance	5.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1919	ALL	UCART5	491826.7	3861311	5.64E-07	30YrCance	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1920	ALL	UCART5	491857.5	3861311	5.51E-07	30YrCance	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1921	ALL	UCART5	491888.3	3861311	5.40E-07	30YrCance	5.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1922	ALL	UCART5	491919.1	3861311	5.28E-07	30YrCance	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1923	ALL	UCART5	491949.9	3861311	5.16E-07	30YrCance	5.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1924	ALL	UCART5	491980.7	3861311	5.06E-07	30YrCance	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1925	ALL	UCART5	492011.5	3861311	4.96E-07	30YrCance	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1926	ALL	UCART5	492042.3	3861311	4.87E-07	30YrCance	4.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1927	ALL	UCART5	492073.1	3861311	4.76E-07	30YrCance	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1928	ALL	UCART5	492103.8	3861311	4.67E-07	30YrCance	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1929	ALL	UCART5	492134.6	3861311	4.57E-07	30YrCance	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1930	ALL	UCART5	492165.4	3861311	4.49E-07	30YrCance	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1931	ALL	UCART5	492196.2	3861311	4.40E-07	30YrCance	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1932	ALL	UCART5	492227	3861311	4.32E-07	30YrCance	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1933	ALL	UCART5	491611.2	3861340	5.96E-07	30YrCance	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1934	ALL	UCART5	491642	3861340	5.87E-07	30YrCance	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1935	ALL	UCART5	491672.8	3861340	5.77E-07	30YrCance	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1936	ALL	UCART5	491703.6	3861340	5.67E-07	30YrCance	5.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1937	ALL	UCART5	491734.4	3861340	5.57E-07	30YrCance	5.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1938	ALL	UCART5	491765.2	3861340	5.47E-07	30YrCance	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1939	ALL	UCART5	491795.9	3861340	5.37E-07	30YrCance	5.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1940	ALL	UCART5	491826.7	3861340	5.28E-07	30YrCance	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1941	ALL	UCART5	491857.5	3861340	5.17E-07	30YrCance	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1942	ALL	UCART5	491888.3	3861340	5.09E-07	30YrCance	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1943	ALL	UCART5	491919.1	3861340	4.98E-07	30YrCance	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1944	ALL	UCART5	491949.9	3861340	4.89E-07	30YrCance	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1945	ALL	UCART5	491980.7	3861340	4.80E-07	30YrCance	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1946	ALL	UCART5	492011.5	3861340	4.71E-07	30YrCance	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1947	ALL	UCART5	492042.3	3861340	4.63E-07	30YrCance	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1948	ALL	UCART5	492073.1	3861340	4.54E-07	30YrCance	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1949	ALL	UCART5	492103.8	3861340	4.46E-07	30YrCance	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1950	ALL	UCART5	492134.6	3861340	4.38E-07	30YrCance	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1951	ALL	UCART5	492165.4	3861340	4.30E-07	30YrCance	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1952	ALL	UCART5	492196.2	3861340	4.23E-07	30YrCance	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1953	ALL	UCART5	492227	3861340	4.16E-07	30YrCance	4.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1954	ALL	UCART5	491611.2	3861370	5.51E-07	30YrCance	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1955	ALL	UCART5	491642	3861370	5.42E-07	30YrCance	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1956	ALL	UCART5	491672.8	3861370	5.35E-07	30YrCance	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1957	ALL	UCART5	491703.6	3861370	5.27E-07	30YrCance	5.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1958	ALL	UCART5	491734.4	3861370	5.19E-07	30YrCance	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1959	ALL	UCART5	491765.2	3861370	5.11E-07	30YrCance	5.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1960	ALL	UCART5	491795.9	3861370	5.03E-07	30YrCance	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1961	ALL	UCART5	491826.7	3861370	4.95E-07	30YrCance	4.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1962	ALL	UCART5	491857.5	3861370	4.87E-07	30YrCance	4.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1963	ALL	UCART5	491888.3	3861370	4.79E-07	30YrCance	4.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1964	ALL	UCART5	491919.1	3861370	4.70E-07	30YrCance	4.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1965	ALL	UCART5	491949.9	3861370	4.63E-07	30YrCance	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1966	ALL	UCART5	491980.7	3861370	4.55E-07	30YrCance	4.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1967	ALL	UCART5	492011.5	3861370	4.47E-07	30YrCance	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1968	ALL	UCART5	492042.3	3861370	4.41E-07	30YrCance	4.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1969	ALL	UCART5	492073.1	3861370	4.32E-07	30YrCance	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1970	ALL	UCART5	492103.8	3861370	4.25E-07	30YrCance	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1971	ALL	UCART5	492134.6	3861370	4.19E-07	30YrCance	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1972	ALL	UCART5	492165.4	3861370	4.12E-07	30YrCance	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1973	ALL	UCART5	492196.2	3861370	4.05E-07	30YrCance	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1974	ALL	UCART5	492227	3861370	3.99E-07	30YrCance	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1975	ALL	UCART5	491611.2	3861399	5.11E-07	30YrCance	5.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1976	ALL	UCART5	491642	3861399	5.04E-07	30YrCance	5.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1977	ALL	UCART5	491672.8	3861399	4.98E-07	30YrCance	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1978	ALL	UCART5	491703.6	3861399	4.91E-07	30YrCance	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1979	ALL	UCART5	491734.4	3861399	4.85E-07	30YrCance	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1980	ALL	UCART5	491765.2	3861399	4.78E-07	30YrCance	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1981	ALL	UCART5	491795.9	3861399	4.71E-07	30YrCance	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1982	ALL	UCART5	491826.7	3861399	4.64E-07	30YrCance	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1983	ALL	UCART5	491857.5	3861399	4.58E-07	30YrCance	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1984	ALL	UCART5	491888.3	3861399	4.51E-07	30YrCance	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1985	ALL	UCART5	491919.1	3861399	4.45E-07	30YrCance	4.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1986	ALL	UCART5	491949.9	3861399	4.38E-07	30YrCance	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1987	ALL	UCART5	491980.7	3861399	4.32E-07	30YrCance	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1988	ALL	UCART5	492011.5	3861399	4.25E-07	30YrCance	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1989	ALL	UCART5	492042.3	3861399	4.20E-07	30YrCance	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1990	ALL	UCART5	492073.1	3861399	4.13E-07	30YrCance	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1991	ALL	UCART5	492103.8	3861399	4.06E-07	30YrCance	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1992	ALL	UCART5	492134.6	3861399	4.00E-07	30YrCance	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1993	ALL	UCART5	492165.4	3861399	3.94E-07	30YrCance	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1994	ALL	UCART5	492196.2	3861399	3.88E-07	30YrCance	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1995	ALL	UCART5	492227	3861399	3.83E-07	30YrCance	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1996	ALL	UCART5	491611.2	3861428	4.76E-07	30YrCance	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1997	ALL	UCART5	491642	3861428	4.70E-07	30YrCance	4.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1998	ALL	UCART5	491672.8	3861428	4.65E-07	30YrCance	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1999	ALL	UCART5	491703.6	3861428	4.60E-07	30YrCance	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2000	ALL	UCART5	491734.4	3861428	4.54E-07	30YrCance	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2001	ALL	UCART5	491765.2	3861428	4.49E-07	30YrCance	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2002	ALL	UCART5	491795.9	3861428	4.43E-07	30YrCance	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2003	ALL	UCART5	491826.7	3861428	4.38E-07	30YrCance	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2004	ALL	UCART5	491857.5	3861428	4.32E-07	30YrCance	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2005	ALL	UCART5	491888.3	3861428	4.26E-07	30YrCance	4.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2006	ALL	UCART5	491919.1	3861428	4.21E-07	30YrCance	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2007	ALL	UCART5	491949.9	3861428	4.15E-07	30YrCance	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2008	ALL	UCART5	491980.7	3861428	4.10E-07	30YrCance	4.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2009	ALL	UCART5	492011.5	3861428	4.04E-07	30YrCance	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2010	ALL	UCART5	492042.3	3861428	4.00E-07	30YrCance	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2011	ALL	UCART5	492073.1	3861428	3.94E-07	30YrCance	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2012	ALL	UCART5	492103.8	3861428	3.88E-07	30YrCance	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2013	ALL	UCART5	492134.6	3861428	3.82E-07	30YrCance	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2014	ALL	UCART5	492165.4	3861428	3.77E-07	30YrCance	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2015	ALL	UCART5	492196.2	3861428	3.72E-07	30YrCance	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2016	ALL	UCART5	492227	3861428	3.67E-07	30YrCance	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2017	ALL	UCART5	491611.2	3861458	4.45E-07	30YrCance	4.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2018	ALL	UCART5	491642	3861458	4.40E-07	30YrCance	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	ALL	UCART5	491672.8	3861458	4.36E-07	30YrCance	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2020	ALL	UCART5	491703.6	3861458	4.31E-07	30YrCance	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2021	ALL	UCART5	491734.4	3861458	4.27E-07	30YrCance	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2022	ALL	UCART5	491765.2	3861458	4.22E-07	30YrCance	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2023	ALL	UCART5	491795.9	3861458	4.17E-07	30YrCance	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2024	ALL	UCART5	491826.7	3861458	4.13E-07	30YrCance	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2025	ALL	UCART5	491857.5	3861458	4.08E-07	30YrCance	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2026	ALL	UCART5	491888.3	3861458	4.03E-07	30YrCance	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2027	ALL	UCART5	491919.1	3861458	3.99E-07	30YrCance	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2028	ALL	UCART5	491949.9	3861458	3.94E-07	30YrCance	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2029	ALL	UCART5	491980.7	3861458	3.90E-07	30YrCance	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	ALL	UCART5	492011.5	3861458	3.85E-07	30YrCance	3.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2031	ALL	UCART5	492042.3	3861458	3.81E-07	30YrCance	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2032	ALL	UCART5	492073.1	3861458	3.75E-07	30YrCance	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2033	ALL	UCART5	492103.8	3861458	3.70E-07	30YrCance	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2034	ALL	UCART5	492134.6	3861458	3.66E-07	30YrCance	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2035	ALL	UCART5	492165.4	3861458	3.61E-07	30YrCance	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2036	ALL	UCART5	492196.2	3861458	3.56E-07	30YrCance	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2037	ALL	UCART5	492227	3861458	3.52E-07	30YrCance	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2038	ALL	UCART5	491611.2	3861487	4.17E-07	30YrCance	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2039	ALL	UCART5	491642	3861487	4.14E-07	30YrCance	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2040	ALL	UCART5	491672.8	3861487	4.10E-07	30YrCance	4.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2041	ALL	UCART5	491703.6	3861487	4.06E-07	30YrCance	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2042	ALL	UCART5	491734.4	3861487	4.02E-07	30YrCance	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2043	ALL	UCART5	491765.2	3861487	3.98E-07	30YrCance	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2044	ALL	UCART5	491795.9	3861487	3.94E-07	30YrCance	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2045	ALL	UCART5	491826.7	3861487	3.90E-07	30YrCance	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2046	ALL	UCART5	491857.5	3861487	3.86E-07	30YrCance	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2047	ALL	UCART5	491888.3	3861487	3.82E-07	30YrCance	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2048	ALL	UCART5	491919.1	3861487	3.79E-07	30YrCance	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2049	ALL	UCART5	491949.9	3861487	3.75E-07	30YrCance	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2050	ALL	UCART5	491980.7	3861487	3.70E-07	30YrCance	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2051	ALL	UCART5	492011.5	3861487	3.67E-07	30YrCance	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2052	ALL	UCART5	492042.3	3861487	3.63E-07	30YrCance	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2053	ALL	UCART5	492073.1	3861487	3.58E-07	30YrCance	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2054	ALL	UCART5	492103.8	3861487	3.54E-07	30YrCance	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2055	ALL	UCART5	492134.6	3861487	3.49E-07	30YrCance	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2056	ALL	UCART5	492165.4	3861487	3.46E-07	30YrCance	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2057	ALL	UCART5	492196.2	3861487	3.41E-07	30YrCance	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2058	ALL	UCART5	492227	3861487	3.37E-07	30YrCance	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2059	ALL	UCART5	491611.2	3861517	3.93E-07	30YrCance	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2060	ALL	UCART5	491642	3861517	3.90E-07	30YrCance	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2061	ALL	UCART5	491672.8	3861517	3.87E-07	30YrCance	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2062	ALL	UCART5	491703.6	3861517	3.83E-07	30YrCance	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2063	ALL	UCART5	491734.4	3861517	3.80E-07	30YrCance	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2064	ALL	UCART5	491765.2	3861517	3.76E-07	30YrCance	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2065	ALL	UCART5	491795.9	3861517	3.73E-07	30YrCance	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2066	ALL	UCART5	491826.7	3861517	3.70E-07	30YrCance	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2067	ALL	UCART5	491857.5	3861517	3.66E-07	30YrCance	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2068	ALL	UCART5	491888.3	3861517	3.63E-07	30YrCance	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2069	ALL	UCART5	491919.1	3861517	3.60E-07	30YrCance	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2070	ALL	UCART5	491949.9	3861517	3.56E-07	30YrCance	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2071	ALL	UCART5	491980.7	3861517	3.52E-07	30YrCance	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2072	ALL	UCART5	492011.5	3861517	3.50E-07	30YrCance	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2073	ALL	UCART5	492042.3	3861517	3.46E-07	30YrCance	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2074	ALL	UCART5	492073.1	3861517	3.42E-07	30YrCance	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2075	ALL	UCART5	492103.8	3861517	3.38E-07	30YrCance	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2076	ALL	UCART5	492134.6	3861517	3.34E-07	30YrCance	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2077	ALL	UCART5	492165.4	3861517	3.31E-07	30YrCance	3.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2078	ALL	UCART5	492196.2	3861517	3.27E-07	30YrCance	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2079	ALL	UCART5	492227	3861517	3.24E-07	30YrCance	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2080	ALL	UCART5	491611.2	3861546	3.70E-07	30YrCance	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2081	ALL	UCART5	491642	3861546	3.68E-07	30YrCance	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2082	ALL	UCART5	491672.8	3861546	3.65E-07	30YrCance	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2083	ALL	UCART5	491703.6	3861546	3.62E-07	30YrCance	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2084	ALL	UCART5	491734.4	3861546	3.59E-07	30YrCance	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2085	ALL	UCART5	491765.2	3861546	3.57E-07	30YrCance	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2086	ALL	UCART5	491795.9	3861546	3.54E-07	30YrCance	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2087	ALL	UCART5	491826.7	3861546	3.51E-07	30YrCance	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2088	ALL	UCART5	491857.5	3861546	3.48E-07	30YrCance	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2089	ALL	UCART5	491888.3	3861546	3.45E-07	30YrCance	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2090	ALL	UCART5	491919.1	3861546	3.42E-07	30YrCance	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2091	ALL	UCART5	491949.9	3861546	3.39E-07	30YrCance	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2092	ALL	UCART5	491980.7	3861546	3.36E-07	30YrCance	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2093	ALL	UCART5	492011.5	3861546	3.34E-07	30YrCance	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2094	ALL	UCART5	492042.3	3861546	3.30E-07	30YrCance	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2095	ALL	UCART5	492073.1	3861546	3.27E-07	30YrCance	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2096	ALL	UCART5	492103.8	3861546	3.23E-07	30YrCance	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2097	ALL	UCART5	492134.6	3861546	3.20E-07	30YrCance	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2098	ALL	UCART5	492165.4	3861546	3.17E-07	30YrCance	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2099	ALL	UCART5	492196.2	3861546	3.13E-07	30YrCance	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2100	ALL	UCART5	492227	3861546	3.10E-07	30YrCance	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2101	ALL	UCART5	491611.2	3861576	3.50E-07	30YrCance	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2102	ALL	UCART5	491642	3861576	3.48E-07	30YrCance	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2103	ALL	UCART5	491672.8	3861576	3.45E-07	30YrCance	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2104	ALL	UCART5	491703.6	3861576	3.43E-07	30YrCance	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2105	ALL	UCART5	491734.4	3861576	3.41E-07	30YrCance	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2106	ALL	UCART5	491765.2	3861576	3.38E-07	30YrCance	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2107	ALL	UCART5	491795.9	3861576	3.36E-07	30YrCance	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2108	ALL	UCART5	491826.7	3861576	3.33E-07	30YrCance	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2109	ALL	UCART5	491857.5	3861576	3.30E-07	30YrCance	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2110	ALL	UCART5	491888.3	3861576	3.28E-07	30YrCance	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2111	ALL	UCART5	491919.1	3861576	3.25E-07	30YrCance	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2112	ALL	UCART5	491949.9	3861576	3.23E-07	30YrCance	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2113	ALL	UCART5	491980.7	3861576	3.20E-07	30YrCance	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2114	ALL	UCART5	492011.5	3861576	3.17E-07	30YrCance	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2115	ALL	UCART5	492042.3	3861576	3.15E-07	30YrCance	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2116	ALL	UCART5	492073.1	3861576	3.13E-07	30YrCance	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2117	ALL	UCART5	492103.8	3861576	3.09E-07	30YrCance	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2118	ALL	UCART5	492134.6	3861576	3.07E-07	30YrCance	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2119	ALL	UCART5	492165.4	3861576	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2120	ALL	UCART5	492196.2	3861576	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2121	ALL	UCART5	492227	3861576	2.96E-07	30YrCance	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2122	ALL	UCART5	491611.2	3861605	3.32E-07	30YrCance	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2123	ALL	UCART5	491642	3861605	3.30E-07	30YrCance	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2124	ALL	UCART5	491672.8	3861605	3.28E-07	30YrCance	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2125	ALL	UCART5	491703.6	3861605	3.26E-07	30YrCance	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2126	ALL	UCART5	491734.4	3861605	3.24E-07	30YrCance	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2127	ALL	UCART5	491765.2	3861605	3.21E-07	30YrCance	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2128	ALL	UCART5	491795.9	3861605	3.19E-07	30YrCance	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2129	ALL	UCART5	491826.7	3861605	3.17E-07	30YrCance	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2130	ALL	UCART5	491857.5	3861605	3.14E-07	30YrCance	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2131	ALL	UCART5	491888.3	3861605	3.12E-07	30YrCance	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2132	ALL	UCART5	491919.1	3861605	3.10E-07	30YrCance	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2133	ALL	UCART5	491949.9	3861605	3.08E-07	30YrCance	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2134	ALL	UCART5	491980.7	3861605	3.05E-07	30YrCance	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2135	ALL	UCART5	492011.5	3861605	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2136	ALL	UCART5	492042.3	3861605	3.01E-07	30YrCance	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2137	ALL	UCART5	492073.1	3861605	2.98E-07	30YrCance	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2138	ALL	UCART5	492103.8	3861605	2.96E-07	30YrCance	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2139	ALL	UCART5	492134.6	3861605	2.93E-07	30YrCance	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2140	ALL	UCART5	492165.4	3861605	2.89E-07	30YrCance	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2141	ALL	UCART5	492196.2	3861605	2.87E-07	30YrCance	2.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2142	ALL	UCART5	492227	3861605	2.84E-07	30YrCance	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2143	ALL	UCART5	491611.2	3861635	3.15E-07	30YrCance	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2144	ALL	UCART5	491642	3861635	3.13E-07	30YrCance	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2145	ALL	UCART5	491672.8	3861635	3.11E-07	30YrCance	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2146	ALL	UCART5	491703.6	3861635	3.09E-07	30YrCance	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2147	ALL	UCART5	491734.4	3861635	3.08E-07	30YrCance	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2148	ALL	UCART5	491765.2	3861635	3.05E-07	30YrCance	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2149	ALL	UCART5	491795.9	3861635	3.04E-07	30YrCance	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2150	ALL	UCART5	491826.7	3861635	3.02E-07	30YrCance	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2151	ALL	UCART5	491857.5	3861635	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2152	ALL	UCART5	491888.3	3861635	2.97E-07	30YrCance	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2153	ALL	UCART5	491919.1	3861635	2.95E-07	30YrCance	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2154	ALL	UCART5	491949.9	3861635	2.94E-07	30YrCance	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2155	ALL	UCART5	491980.7	3861635	2.92E-07	30YrCance	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2156	ALL	UCART5	492011.5	3861635	2.90E-07	30YrCance	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2157	ALL	UCART5	492042.3	3861635	2.88E-07	30YrCance	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2158	ALL	UCART5	492073.1	3861635	2.85E-07	30YrCance	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2159	ALL	UCART5	492103.8	3861635	2.82E-07	30YrCance	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2160	ALL	UCART5	492134.6	3861635	2.79E-07	30YrCance	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2161	ALL	UCART5	492165.4	3861635	2.77E-07	30YrCance	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2162	ALL	UCART5	492196.2	3861635	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2163	ALL	UCART5	492227	3861635	2.73E-07	30YrCance	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2164	ALL	UCART5	491611.2	3861664	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2165	ALL	UCART5	491642	3861664	2.98E-07	30YrCance	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2166	ALL	UCART5	491672.8	3861664	2.96E-07	30YrCance	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2167	ALL	UCART5	491703.6	3861664	2.94E-07	30YrCance	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2168	ALL	UCART5	491734.4	3861664	2.93E-07	30YrCance	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2169	ALL	UCART5	491765.2	3861664	2.91E-07	30YrCance	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2170	ALL	UCART5	491795.9	3861664	2.90E-07	30YrCance	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2171	ALL	UCART5	491826.7	3861664	2.88E-07	30YrCance	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2172	ALL	UCART5	491857.5	3861664	2.86E-07	30YrCance	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2173	ALL	UCART5	491888.3	3861664	2.84E-07	30YrCance	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2174	ALL	UCART5	491919.1	3861664	2.82E-07	30YrCance	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2175	ALL	UCART5	491949.9	3861664	2.80E-07	30YrCance	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2176	ALL	UCART5	491980.7	3861664	2.79E-07	30YrCance	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2177	ALL	UCART5	492011.5	3861664	2.77E-07	30YrCance	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2178	ALL	UCART5	492042.3	3861664	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2179	ALL	UCART5	492073.1	3861664	2.72E-07	30YrCance	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2180	ALL	UCART5	492103.8	3861664	2.70E-07	30YrCance	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2181	ALL	UCART5	492134.6	3861664	2.68E-07	30YrCance	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2182	ALL	UCART5	492165.4	3861664	2.66E-07	30YrCance	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2183	ALL	UCART5	492196.2	3861664	2.64E-07	30YrCance	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2184	ALL	UCART5	492227	3861664	2.63E-07	30YrCance	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2185	ALL	UCART5	491611.2	3861694	2.85E-07	30YrCance	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2186	ALL	UCART5	491642	3861694	2.84E-07	30YrCance	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2187	ALL	UCART5	491672.8	3861694	2.83E-07	30YrCance	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2188	ALL	UCART5	491703.6	3861694	2.81E-07	30YrCance	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2189	ALL	UCART5	491734.4	3861694	2.79E-07	30YrCance	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2190	ALL	UCART5	491765.2	3861694	2.78E-07	30YrCance	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2191	ALL	UCART5	491795.9	3861694	2.76E-07	30YrCance	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2192	ALL	UCART5	491826.7	3861694	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2193	ALL	UCART5	491857.5	3861694	2.74E-07	30YrCance	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2194	ALL	UCART5	491888.3	3861694	2.72E-07	30YrCance	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2195	ALL	UCART5	491919.1	3861694	2.69E-07	30YrCance	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2196	ALL	UCART5	491949.9	3861694	2.68E-07	30YrCance	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2197	ALL	UCART5	491980.7	3861694	2.66E-07	30YrCance	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2198	ALL	UCART5	492011.5	3861694	2.64E-07	30YrCance	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2199	ALL	UCART5	492042.3	3861694	2.63E-07	30YrCance	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2200	ALL	UCART5	492073.1	3861694	2.61E-07	30YrCance	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2201	ALL	UCART5	492103.8	3861694	2.59E-07	30YrCance	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2202	ALL	UCART5	492134.6	3861694	2.57E-07	30YrCance	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2203	ALL	UCART5	492165.4	3861694	2.56E-07	30YrCance	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2204	ALL	UCART5	492196.2	3861694	2.54E-07	30YrCance	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2205	ALL	UCART5	492227	3861694	2.52E-07	30YrCance	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2206	ALL		488803	3861310	3.34E-07	30YrCance	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2207	ALL		488863.6	3861309	3.58E-07	30YrCance	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2208	ALL		488847.6	3861280	3.65E-07	30YrCance	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2209	ALL		488850.8	3861262	3.76E-07	30YrCance	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2210	ALL		488810.1	3861261	3.60E-07	30YrCance	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2211	ALL		488810.9	3861289	3.46E-07	30YrCance	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2212	ALL		488819.7	3861307	3.40E-07	30YrCance	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2213	ALL		488816.5	3861236	3.76E-07	30YrCance	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2214	ALL		488841.3	3861127	4.67E-07	30YrCance	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2215	ALL		488879.5	3861122	5.01E-07	30YrCance	5.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2216	ALL		488913.8	3861121	5.33E-07	30YrCance	5.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2217	ALL		488925.8	3861092	5.77E-07	30YrCance	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2218	ALL		488920	3861067	5.93E-07	30YrCance	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2219	ALL		488996.7	3861114	6.41E-07	30YrCance	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2220	ALL		488974	3861098	6.36E-07	30YrCance	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2221	ALL		488931.6	3860977	6.61E-07	30YrCance	6.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2222	ALL		488935.7	3861035	6.37E-07	30YrCance	6.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2223	ALL		488959.9	3861061	6.53E-07	30YrCance	6.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2224	ALL		489165.8	3861209	8.07E-07	30YrCance	8.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2225	ALL		489317.7	3861109	2.23E-06	30YrCance	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2226	ALL		489385.9	3861015	1.99E-06	30YrCance	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2227	ALL		489372.2	3861113	2.35E-06	30YrCance	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2228	ALL		489420.8	3861107	2.23E-06	30YrCance	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2229	ALL		489436.1	3861038	1.81E-06	30YrCance	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2230	ALL		489488.1	3861037	1.81E-06	30YrCance	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2231	ALL		489473.6	3861111	2.41E-06	30YrCance	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2232	ALL		489431	3861167	2.77E-06	30YrCance	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2233	ALL		489662.7	3860916	3.87E-06	30YrCance	3.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2234	ALL		489644.8	3861076	1.88E-06	30YrCance	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2235	ALL		489659.3	3861099	2.22E-06	30YrCance	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2236	ALL		489735.9	3861021	1.82E-06	30YrCance	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2237	ALL		489700.1	3861029	1.81E-06	30YrCance	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2238	ALL		489708.7	3861062	1.82E-06	30YrCance	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2239	ALL		489779.3	3861099	2.30E-06	30YrCance	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2240	ALL		489836	3859139	4.00E-07	30YrCance	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2241	ALL		489886	3859139	3.83E-07	30YrCance	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2242	ALL		489936	3859139	3.68E-07	30YrCance	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2243	ALL		489986	3859139	3.54E-07	30YrCance	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2244	ALL		490036	3859139	3.41E-07	30YrCance	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2245	ALL		490086	3859139	3.32E-07	30YrCance	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2246	ALL		490136	3859139	3.25E-07	30YrCance	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2247	ALL		490186	3859139	3.18E-07	30YrCance	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2248	ALL		490236	3859139	3.10E-07	30YrCance	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2249	ALL	490286	3859139	3.00E-07	30YrCance	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2250	ALL	490336	3859139	2.89E-07	30YrCance	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2251	ALL	490386	3859139	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2252	ALL	490436	3859139	2.69E-07	30YrCance	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2253	ALL	490486	3859139	2.59E-07	30YrCance	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2254	ALL	490536	3859139	2.46E-07	30YrCance	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2255	ALL	490586	3859139	2.36E-07	30YrCance	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2256	ALL	490636	3859139	2.25E-07	30YrCance	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2257	ALL	490686	3859139	2.15E-07	30YrCance	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2258	ALL	490736	3859139	2.08E-07	30YrCance	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2259	ALL	490786	3859139	2.01E-07	30YrCance	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2260	ALL	490836	3859139	1.93E-07	30YrCance	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2261	ALL	490886	3859139	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2262	ALL	489836	3859189	4.01E-07	30YrCance	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2263	ALL	489886	3859189	3.83E-07	30YrCance	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2264	ALL	489936	3859189	3.69E-07	30YrCance	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2265	ALL	489986	3859189	3.54E-07	30YrCance	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2266	ALL	490036	3859189	3.43E-07	30YrCance	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2267	ALL	490086	3859189	3.35E-07	30YrCance	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2268	ALL	490136	3859189	3.26E-07	30YrCance	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2269	ALL	490186	3859189	3.18E-07	30YrCance	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2270	ALL	490236	3859189	3.08E-07	30YrCance	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2271	ALL	490286	3859189	2.98E-07	30YrCance	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2272	ALL	490336	3859189	2.89E-07	30YrCance	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2273	ALL	490386	3859189	2.79E-07	30YrCance	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2274	ALL	490436	3859189	2.68E-07	30YrCance	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2275	ALL	490486	3859189	2.54E-07	30YrCance	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2276	ALL	490536	3859189	2.44E-07	30YrCance	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2277	ALL	490586	3859189	2.36E-07	30YrCance	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2278	ALL	490636	3859189	2.24E-07	30YrCance	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2279	ALL	490686	3859189	2.09E-07	30YrCance	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2280	ALL	490736	3859189	1.99E-07	30YrCance	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2281	ALL	490786	3859189	1.90E-07	30YrCance	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2282	ALL	490836	3859189	1.91E-07	30YrCance	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2283	ALL	490886	3859189	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2284	ALL	489836	3859239	4.01E-07	30YrCance	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2285	ALL	489886	3859239	3.85E-07	30YrCance	3.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2286	ALL	489936	3859239	3.70E-07	30YrCance	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2287	ALL	489986	3859239	3.54E-07	30YrCance	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2288	ALL	490036	3859239	3.44E-07	30YrCance	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2289	ALL	490086	3859239	3.37E-07	30YrCance	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2290	ALL	490136	3859239	3.28E-07	30YrCance	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2291	ALL	490186	3859239	3.20E-07	30YrCance	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2292	ALL	490236	3859239	3.10E-07	30YrCance	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2293	ALL	490286	3859239	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2294	ALL	490336	3859239	2.89E-07	30YrCance	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2295	ALL	490386	3859239	2.80E-07	30YrCance	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2296	ALL	490436	3859239	2.71E-07	30YrCance	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2297	ALL	490486	3859239	2.63E-07	30YrCance	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2298	ALL	490536	3859239	2.50E-07	30YrCance	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2299	ALL	490586	3859239	2.38E-07	30YrCance	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2300	ALL	490636	3859239	2.27E-07	30YrCance	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2301	ALL	490686	3859239	2.21E-07	30YrCance	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2302	ALL	490736	3859239	2.12E-07	30YrCance	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2303	ALL	490786	3859239	2.06E-07	30YrCance	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2304	ALL	490836	3859239	2.01E-07	30YrCance	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2305	ALL	490886	3859239	1.95E-07	30YrCance	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2306	ALL	489836	3859289	4.04E-07	30YrCance	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2307	ALL	489886	3859289	3.87E-07	30YrCance	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2308	ALL	489936	3859289	3.71E-07	30YrCance	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2309	ALL	489986	3859289	3.56E-07	30YrCance	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2310	ALL	490036	3859289	3.47E-07	30YrCance	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2311	ALL	490086	3859289	3.38E-07	30YrCance	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2312	ALL	490136	3859289	3.30E-07	30YrCance	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2313	ALL	490186	3859289	3.22E-07	30YrCance	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2314	ALL	490236	3859289	3.12E-07	30YrCance	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2315	ALL	490286	3859289	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2316	ALL	490336	3859289	2.93E-07	30YrCance	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2317	ALL	490386	3859289	2.82E-07	30YrCance	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2318	ALL	490436	3859289	2.70E-07	30YrCance	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2319	ALL	490486	3859289	2.65E-07	30YrCance	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2320	ALL	490536	3859289	2.62E-07	30YrCance	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2321	ALL	490586	3859289	2.50E-07	30YrCance	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2322	ALL	490636	3859289	2.45E-07	30YrCance	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2323	ALL	490686	3859289	2.36E-07	30YrCance	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2324	ALL	490736	3859289	2.24E-07	30YrCance	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2325	ALL	490786	3859289	2.18E-07	30YrCance	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2326	ALL	490836	3859289	2.13E-07	30YrCance	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2327	ALL	490886	3859289	2.07E-07	30YrCance	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2328	ALL	489836	3859339	4.08E-07	30YrCance	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2329	ALL	489886	3859339	3.91E-07	30YrCance	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2330	ALL	489936	3859339	3.74E-07	30YrCance	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2331	ALL	489986	3859339	3.62E-07	30YrCance	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2332	ALL	490036	3859339	3.52E-07	30YrCance	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2333	ALL	490086	3859339	3.43E-07	30YrCance	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2334	ALL	490136	3859339	3.34E-07	30YrCance	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2335	ALL	490186	3859339	3.25E-07	30YrCance	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2336	ALL	490236	3859339	3.17E-07	30YrCance	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2337	ALL	490286	3859339	3.09E-07	30YrCance	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2338	ALL	490336	3859339	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2339	ALL	490386	3859339	2.90E-07	30YrCance	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2340	ALL	490436	3859339	2.83E-07	30YrCance	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2341	ALL	490486	3859339	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2342	ALL	490536	3859339	2.69E-07	30YrCance	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2343	ALL	490586	3859339	2.62E-07	30YrCance	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2344	ALL	490636	3859339	2.56E-07	30YrCance	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2345	ALL	490686	3859339	2.47E-07	30YrCance	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2346	ALL	490736	3859339	2.37E-07	30YrCance	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2347	ALL	490786	3859339	2.31E-07	30YrCance	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2348	ALL	490836	3859339	2.30E-07	30YrCance	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2349	ALL	490886	3859339	2.23E-07	30YrCance	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2350	ALL	489836	3859389	4.11E-07	30YrCance	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2351	ALL	489886	3859389	3.94E-07	30YrCance	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2352	ALL	489936	3859389	3.81E-07	30YrCance	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2353	ALL	489986	3859389	3.68E-07	30YrCance	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2354	ALL	490036	3859389	3.58E-07	30YrCance	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2355	ALL	490086	3859389	3.49E-07	30YrCance	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2356	ALL	490136	3859389	3.39E-07	30YrCance	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2357	ALL	490186	3859389	3.30E-07	30YrCance	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2358	ALL	490236	3859389	3.23E-07	30YrCance	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2359	ALL	490286	3859389	3.16E-07	30YrCance	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2360	ALL	490336	3859389	3.08E-07	30YrCance	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2361	ALL	490386	3859389	3.01E-07	30YrCance	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2362	ALL	490436	3859389	2.95E-07	30YrCance	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2363	ALL	490486	3859389	2.89E-07	30YrCance	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2364	ALL	490536	3859389	2.82E-07	30YrCance	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2365	ALL	490586	3859389	2.76E-07	30YrCance	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2366	ALL	490636	3859389	2.69E-07	30YrCance	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2367	ALL	490686	3859389	2.56E-07	30YrCance	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2368	ALL	490736	3859389	2.43E-07	30YrCance	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2369	ALL	490786	3859389	2.41E-07	30YrCance	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2370	ALL	490836	3859389	2.45E-07	30YrCance	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2371	ALL	490886	3859389	2.42E-07	30YrCance	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2372	ALL	489836	3859439	4.19E-07	30YrCance	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2373	ALL	489886	3859439	4.02E-07	30YrCance	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2374	ALL	489936	3859439	3.87E-07	30YrCance	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2375	ALL	489986	3859439	3.75E-07	30YrCance	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2376	ALL	490036	3859439	3.65E-07	30YrCance	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2377	ALL	490086	3859439	3.54E-07	30YrCance	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2378	ALL	490136	3859439	3.46E-07	30YrCance	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2379	ALL	490186	3859439	3.37E-07	30YrCance	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2380	ALL	490236	3859439	3.30E-07	30YrCance	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2381	ALL	490286	3859439	3.23E-07	30YrCance	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2382	ALL	490336	3859439	3.17E-07	30YrCance	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2383	ALL	490386	3859439	3.11E-07	30YrCance	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2384	ALL	490436	3859439	3.05E-07	30YrCance	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2385	ALL	490486	3859439	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2386	ALL	490536	3859439	2.94E-07	30YrCance	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2387	ALL	490586	3859439	2.89E-07	30YrCance	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2388	ALL	490636	3859439	2.82E-07	30YrCance	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2389	ALL	490686	3859439	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2390	ALL	490736	3859439	2.70E-07	30YrCance	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2391	ALL	490786	3859439	2.62E-07	30YrCance	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2392	ALL	490836	3859439	2.60E-07	30YrCance	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2393	ALL	490886	3859439	2.58E-07	30YrCance	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2394	ALL	490086	3859489	3.62E-07	30YrCance	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2395	ALL	490136	3859489	3.54E-07	30YrCance	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2396	ALL	490186	3859489	3.47E-07	30YrCance	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2397	ALL	490236	3859489	3.40E-07	30YrCance	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2398	ALL	490286	3859489	3.33E-07	30YrCance	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2399	ALL	490336	3859489	3.28E-07	30YrCance	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2400	ALL	490386	3859489	3.22E-07	30YrCance	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2401	ALL	490436	3859489	3.18E-07	30YrCance	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2402	ALL	490486	3859489	3.12E-07	30YrCance	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2403	ALL	490536	3859489	3.08E-07	30YrCance	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2404	ALL	490586	3859489	3.02E-07	30YrCance	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2405	ALL	490636	3859489	2.97E-07	30YrCance	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2406	ALL	490686	3859489	2.92E-07	30YrCance	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2407	ALL	490736	3859489	2.86E-07	30YrCance	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2408	ALL	490786	3859489	2.81E-07	30YrCance	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2409	ALL	490836	3859489	2.78E-07	30YrCance	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2410	ALL	490886	3859489	2.74E-07	30YrCance	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2411	ALL	490086	3859539	3.72E-07	30YrCance	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2412	ALL	490136	3859539	3.64E-07	30YrCance	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2413	ALL	490186	3859539	3.58E-07	30YrCance	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2414	ALL	490236	3859539	3.52E-07	30YrCance	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2415	ALL	490286	3859539	3.47E-07	30YrCance	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2416	ALL	490336	3859539	3.41E-07	30YrCance	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2417	ALL	490386	3859539	3.36E-07	30YrCance	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2418	ALL	490436	3859539	3.32E-07	30YrCance	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2419	ALL	490486	3859539	3.27E-07	30YrCance	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2420	ALL	490536	3859539	3.23E-07	30YrCance	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2421	ALL	490586	3859539	3.18E-07	30YrCance	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2422	ALL	490636	3859539	3.14E-07	30YrCance	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2423	ALL	490686	3859539	3.09E-07	30YrCance	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2424	ALL	490736	3859539	3.04E-07	30YrCance	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2425	ALL	490786	3859539	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2426	ALL	490836	3859539	2.95E-07	30YrCance	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2427	ALL	490886	3859539	2.88E-07	30YrCance	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2428	ALL	490136	3859589	3.78E-07	30YrCance	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2429	ALL	490186	3859589	3.71E-07	30YrCance	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2430	ALL	490236	3859589	3.66E-07	30YrCance	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2431	ALL	490286	3859589	3.62E-07	30YrCance	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2432	ALL	490336	3859589	3.57E-07	30YrCance	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2433	ALL	490386	3859589	3.53E-07	30YrCance	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2434	ALL	490436	3859589	3.49E-07	30YrCance	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2435	ALL	490486	3859589	3.45E-07	30YrCance	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2436	ALL	490536	3859589	3.41E-07	30YrCance	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2437	ALL	490586	3859589	3.38E-07	30YrCance	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2438	ALL	490636	3859589	3.33E-07	30YrCance	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2439	ALL	490686	3859589	3.28E-07	30YrCance	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2440	ALL	490736	3859589	3.23E-07	30YrCance	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2441	ALL	490786	3859589	3.18E-07	30YrCance	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2442	ALL	490836	3859589	3.14E-07	30YrCance	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2443	ALL	490886	3859589	3.09E-07	30YrCance	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2444	ALL	490136	3859639	3.91E-07	30YrCance	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2445	ALL	490186	3859639	3.89E-07	30YrCance	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2446	ALL	490236	3859639	3.84E-07	30YrCance	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2447	ALL	490286	3859639	3.81E-07	30YrCance	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2448	ALL	490336	3859639	3.77E-07	30YrCance	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2449	ALL	490386	3859639	3.73E-07	30YrCance	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2450	ALL	490436	3859639	3.70E-07	30YrCance	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2451	ALL	490486	3859639	3.66E-07	30YrCance	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2452	ALL	490536	3859639	3.63E-07	30YrCance	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2453	ALL	490586	3859639	3.59E-07	30YrCance	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2454	ALL	490636	3859639	3.55E-07	30YrCance	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2455	ALL	490686	3859639	3.50E-07	30YrCance	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2456	ALL	490736	3859639	3.44E-07	30YrCance	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2457	ALL	490786	3859639	3.40E-07	30YrCance	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2458	ALL	490836	3859639	3.37E-07	30YrCance	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2459	ALL	490886	3859639	3.34E-07	30YrCance	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2460	ALL	490136	3859689	4.15E-07	30YrCance	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2461	ALL	490186	3859689	4.11E-07	30YrCance	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2462	ALL	490236	3859689	4.07E-07	30YrCance	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2463	ALL	490286	3859689	4.02E-07	30YrCance	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2464	ALL	490336	3859689	4.00E-07	30YrCance	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2465	ALL	490386	3859689	3.99E-07	30YrCance	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2466	ALL	490436	3859689	3.95E-07	30YrCance	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2467	ALL	490486	3859689	3.92E-07	30YrCance	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2468	ALL	490536	3859689	3.87E-07	30YrCance	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2469	ALL	490586	3859689	3.84E-07	30YrCance	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2470	ALL	490636	3859689	3.80E-07	30YrCance	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2471	ALL	490686	3859689	3.74E-07	30YrCance	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2472	ALL	490736	3859689	3.69E-07	30YrCance	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2473	ALL	490786	3859689	3.65E-07	30YrCance	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2474	ALL	490836	3859689	3.62E-07	30YrCance	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2475	ALL	490886	3859689	3.62E-07	30YrCance	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2476	ALL	490086	3859739	4.46E-07	30YrCance	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2477	ALL	490136	3859739	4.43E-07	30YrCance	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2478	ALL	490186	3859739	4.40E-07	30YrCance	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2479	ALL	490236	3859739	4.38E-07	30YrCance	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2480	ALL	490286	3859739	4.34E-07	30YrCance	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2481	ALL	490336	3859739	4.32E-07	30YrCance	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2482	ALL	490386	3859739	4.27E-07	30YrCance	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2483	ALL	490436	3859739	4.25E-07	30YrCance	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2484	ALL	490486	3859739	4.21E-07	30YrCance	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2485	ALL	490536	3859739	4.18E-07	30YrCance	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2486	ALL	490586	3859739	4.13E-07	30YrCance	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2487	ALL	490636	3859739	4.09E-07	30YrCance	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2488	ALL	490686	3859739	4.04E-07	30YrCance	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2489	ALL	490736	3859739	4.00E-07	30YrCance	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2490	ALL	490786	3859739	3.97E-07	30YrCance	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2491	ALL	490836	3859739	3.94E-07	30YrCance	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2492	ALL	490886	3859739	3.92E-07	30YrCance	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2493	ALL	490086	3859789	4.83E-07	30YrCance	4.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2494	ALL	490136	3859789	4.80E-07	30YrCance	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2495	ALL	490186	3859789	4.78E-07	30YrCance	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2496	ALL	490236	3859789	4.76E-07	30YrCance	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2497	ALL	490286	3859789	4.73E-07	30YrCance	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2498	ALL	490336	3859789	4.70E-07	30YrCance	4.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2499	ALL	490386	3859789	4.66E-07	30YrCance	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2500	ALL	490436	3859789	4.63E-07	30YrCance	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2501	ALL	490486	3859789	4.59E-07	30YrCance	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2502	ALL	490536	3859789	4.53E-07	30YrCance	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2503	ALL	490586	3859789	4.50E-07	30YrCance	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2504	ALL	490636	3859789	4.43E-07	30YrCance	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2505	ALL	490686	3859789	4.39E-07	30YrCance	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2506	ALL	490736	3859789	4.36E-07	30YrCance	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2507	ALL	490786	3859789	4.33E-07	30YrCance	4.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2508	ALL	490836	3859789	4.28E-07	30YrCance	4.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2509	ALL	490886	3859789	4.20E-07	30YrCance	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2510	ALL	490086	3859839	5.33E-07	30YrCance	5.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2511	ALL	490136	3859839	5.31E-07	30YrCance	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2512	ALL	490186	3859839	5.28E-07	30YrCance	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2513	ALL	490236	3859839	5.24E-07	30YrCance	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2514	ALL	490286	3859839	5.21E-07	30YrCance	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2515	ALL	490336	3859839	5.16E-07	30YrCance	5.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2516	ALL	490386	3859839	5.11E-07	30YrCance	5.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2517	ALL	490436	3859839	5.07E-07	30YrCance	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2518	ALL	490486	3859839	5.02E-07	30YrCance	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2519	ALL	490536	3859839	4.96E-07	30YrCance	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2520	ALL	490586	3859839	4.90E-07	30YrCance	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2521	ALL	490636	3859839	4.85E-07	30YrCance	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2522	ALL	490686	3859839	4.80E-07	30YrCance	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2523	ALL	490736	3859839	4.74E-07	30YrCance	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2524	ALL	490786	3859839	4.67E-07	30YrCance	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2525	ALL	490836	3859839	4.62E-07	30YrCance	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2526	ALL	490886	3859839	4.57E-07	30YrCance	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2527	ALL	490086	3859889	6.02E-07	30YrCance	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2528	ALL	490136	3859889	5.98E-07	30YrCance	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2529	ALL	490186	3859889	5.92E-07	30YrCance	5.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2530	ALL	490236	3859889	5.87E-07	30YrCance	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2531	ALL	490286	3859889	5.80E-07	30YrCance	5.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2532	ALL	490336	3859889	5.73E-07	30YrCance	5.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2533	ALL	490386	3859889	5.66E-07	30YrCance	5.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2534	ALL	490436	3859889	5.59E-07	30YrCance	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2535	ALL	490486	3859889	5.51E-07	30YrCance	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2536	ALL	490536	3859889	5.44E-07	30YrCance	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2537	ALL	490586	3859889	5.36E-07	30YrCance	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2538	ALL	490636	3859889	5.29E-07	30YrCance	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2539	ALL	490686	3859889	5.22E-07	30YrCance	5.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2540	ALL	490736	3859889	5.16E-07	30YrCance	5.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2541	ALL	490786	3859889	5.10E-07	30YrCance	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2542	ALL	490836	3859889	5.03E-07	30YrCance	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2543	ALL	490886	3859889	4.95E-07	30YrCance	4.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2544	ALL	490136	3859939	6.84E-07	30YrCance	6.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2545	ALL	490186	3859939	6.74E-07	30YrCance	6.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2546	ALL	490236	3859939	6.64E-07	30YrCance	6.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2547	ALL	490286	3859939	6.53E-07	30YrCance	6.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2548	ALL	490336	3859939	6.41E-07	30YrCance	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2549	ALL	490386	3859939	6.30E-07	30YrCance	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2550	ALL	490436	3859939	6.18E-07	30YrCance	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2551	ALL	490486	3859939	6.08E-07	30YrCance	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2552	ALL	490536	3859939	5.98E-07	30YrCance	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2553	ALL	490586	3859939	5.88E-07	30YrCance	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2554	ALL	490636	3859939	5.78E-07	30YrCance	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2555	ALL	490686	3859939	5.67E-07	30YrCance	5.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2556	ALL	490736	3859939	5.58E-07	30YrCance	5.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2557	ALL	490786	3859939	5.50E-07	30YrCance	5.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2558	ALL	490836	3859939	5.43E-07	30YrCance	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2559	ALL	490886	3859939	5.38E-07	30YrCance	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2560	ALL	490136	3859989	7.93E-07	30YrCance	7.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2561	ALL	490186	3859989	7.75E-07	30YrCance	7.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2562	ALL	490236	3859989	7.57E-07	30YrCance	7.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2563	ALL	490286	3859989	7.39E-07	30YrCance	7.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2564	ALL	490336	3859989	7.21E-07	30YrCance	7.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2565	ALL	490386	3859989	7.03E-07	30YrCance	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2566	ALL	490436	3859989	6.86E-07	30YrCance	6.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2567	ALL	490486	3859989	6.70E-07	30YrCance	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2568	ALL	490536	3859989	6.56E-07	30YrCance	6.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2569	ALL	490586	3859989	6.43E-07	30YrCance	6.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2570	ALL	490636	3859989	6.31E-07	30YrCance	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2571	ALL	490686	3859989	6.17E-07	30YrCance	6.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2572	ALL	490736	3859989	6.06E-07	30YrCance	6.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2573	ALL	490786	3859989	5.95E-07	30YrCance	5.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2574	ALL	490836	3859989	5.85E-07	30YrCance	5.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2575	ALL	490886	3859989	5.76E-07	30YrCance	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2576	ALL	490136	3860039	9.25E-07	30YrCance	9.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2577	ALL	490186	3860039	8.93E-07	30YrCance	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2578	ALL	490236	3860039	8.63E-07	30YrCance	8.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2579	ALL	490286	3860039	8.35E-07	30YrCance	8.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2580	ALL	490336	3860039	8.08E-07	30YrCance	8.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2581	ALL	490386	3860039	7.82E-07	30YrCance	7.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2582	ALL	490436	3860039	7.59E-07	30YrCance	7.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2583	ALL	490486	3860039	7.37E-07	30YrCance	7.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2584	ALL	490536	3860039	7.18E-07	30YrCance	7.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2585	ALL	490586	3860039	7.00E-07	30YrCance	7.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2586	ALL	490636	3860039	6.83E-07	30YrCance	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2587	ALL	490686	3860039	6.68E-07	30YrCance	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2588	ALL	490736	3860039	6.54E-07	30YrCance	6.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2589	ALL	490786	3860039	6.40E-07	30YrCance	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2590	ALL	490836	3860039	6.27E-07	30YrCance	6.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2591	ALL	490886	3860039	6.15E-07	30YrCance	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2592	ALL	490136	3860089	1.07E-06	30YrCance	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2593	ALL	490186	3860089	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2594	ALL	490236	3860089	9.77E-07	30YrCance	9.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2595	ALL	490286	3860089	9.37E-07	30YrCance	9.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2596	ALL	490336	3860089	8.99E-07	30YrCance	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2597	ALL	490386	3860089	8.65E-07	30YrCance	8.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2598	ALL	490436	3860089	8.34E-07	30YrCance	8.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2599	ALL	490486	3860089	8.06E-07	30YrCance	8.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2600	ALL	490536	3860089	7.81E-07	30YrCance	7.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2601	ALL	490586	3860089	7.58E-07	30YrCance	7.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2602	ALL	490636	3860089	7.36E-07	30YrCance	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2603	ALL	490686	3860089	7.17E-07	30YrCance	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2604	ALL	490736	3860089	7.00E-07	30YrCance	7.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2605	ALL	490786	3860089	6.83E-07	30YrCance	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2606	ALL	490836	3860089	6.67E-07	30YrCance	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2607	ALL	490886	3860089	6.52E-07	30YrCance	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2608	ALL	490136	3860139	1.22E-06	30YrCance	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2609	ALL	490186	3860139	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2610	ALL	490236	3860139	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2611	ALL	490286	3860139	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2612	ALL	490336	3860139	9.89E-07	30YrCance	9.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2613	ALL	490386	3860139	9.46E-07	30YrCance	9.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2614	ALL	490436	3860139	9.07E-07	30YrCance	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2615	ALL	490486	3860139	8.73E-07	30YrCance	8.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2616	ALL	490536	3860139	8.42E-07	30YrCance	8.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2617	ALL	490586	3860139	8.14E-07	30YrCance	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2618	ALL	490636	3860139	7.88E-07	30YrCance	7.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2619	ALL	490686	3860139	7.64E-07	30YrCance	7.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2620	ALL	490736	3860139	7.42E-07	30YrCance	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2621	ALL	490786	3860139	7.23E-07	30YrCance	7.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2622	ALL	490836	3860139	7.05E-07	30YrCance	7.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2623	ALL	490886	3860139	6.87E-07	30YrCance	6.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2624	ALL	490936	3860139	6.70E-07	30YrCance	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2625	ALL	490986	3860139	6.55E-07	30YrCance	6.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2626	ALL	491036	3860139	6.43E-07	30YrCance	6.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2627	ALL	490136	3860189	1.35E-06	30YrCance	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2628	ALL	490186	3860189	1.26E-06	30YrCance	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2629	ALL	490236	3860189	1.19E-06	30YrCance	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2630	ALL	490286	3860189	1.13E-06	30YrCance	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2631	ALL	490336	3860189	1.07E-06	30YrCance	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2632	ALL	490386	3860189	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2633	ALL	490436	3860189	9.76E-07	30YrCance	9.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2634	ALL	490486	3860189	9.35E-07	30YrCance	9.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2635	ALL	490536	3860189	8.99E-07	30YrCance	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2636	ALL	490586	3860189	8.67E-07	30YrCance	8.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2637	ALL	490636	3860189	8.36E-07	30YrCance	8.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2638	ALL	490686	3860189	8.09E-07	30YrCance	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2639	ALL	490736	3860189	7.83E-07	30YrCance	7.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2640	ALL	490786	3860189	7.60E-07	30YrCance	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2641	ALL	490836	3860189	7.40E-07	30YrCance	7.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2642	ALL	490886	3860189	7.19E-07	30YrCance	7.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2643	ALL	490936	3860189	7.00E-07	30YrCance	7.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2644	ALL	490986	3860189	6.84E-07	30YrCance	6.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2645	ALL	491036	3860189	6.69E-07	30YrCance	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2646	ALL	491086	3860189	6.55E-07	30YrCance	6.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2647	ALL	491136	3860189	6.44E-07	30YrCance	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2648	ALL	490136	3860239	1.46E-06	30YrCance	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2649	ALL	490186	3860239	1.36E-06	30YrCance	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2650	ALL	490236	3860239	1.28E-06	30YrCance	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2651	ALL	490286	3860239	1.21E-06	30YrCance	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2652	ALL	490336	3860239	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2653	ALL	490386	3860239	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2654	ALL	490436	3860239	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2655	ALL	490486	3860239	9.93E-07	30YrCance	9.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2656	ALL	490536	3860239	9.52E-07	30YrCance	9.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2657	ALL	490586	3860239	9.15E-07	30YrCance	9.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2658	ALL	490636	3860239	8.81E-07	30YrCance	8.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2659	ALL	490686	3860239	8.50E-07	30YrCance	8.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2660	ALL	490736	3860239	8.22E-07	30YrCance	8.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2661	ALL	490786	3860239	7.95E-07	30YrCance	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2662	ALL	490836	3860239	7.71E-07	30YrCance	7.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2663	ALL	490886	3860239	7.50E-07	30YrCance	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2664	ALL	490936	3860239	7.30E-07	30YrCance	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2665	ALL	490986	3860239	7.14E-07	30YrCance	7.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2666	ALL	491036	3860239	6.98E-07	30YrCance	6.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2667	ALL	491086	3860239	6.82E-07	30YrCance	6.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2668	ALL	491136	3860239	6.69E-07	30YrCance	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2669	ALL	490136	3860289	1.55E-06	30YrCance	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2670	ALL	490186	3860289	1.45E-06	30YrCance	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2671	ALL	490236	3860289	1.36E-06	30YrCance	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2672	ALL	490286	3860289	1.28E-06	30YrCance	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2673	ALL	490336	3860289	1.21E-06	30YrCance	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2674	ALL	490386	3860289	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2675	ALL	490436	3860289	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2676	ALL	490486	3860289	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2677	ALL	490536	3860289	9.99E-07	30YrCance	9.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2678	ALL	490586	3860289	9.57E-07	30YrCance	9.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2679	ALL	490636	3860289	9.20E-07	30YrCance	9.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2680	ALL	490686	3860289	8.87E-07	30YrCance	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2681	ALL	490736	3860289	8.56E-07	30YrCance	8.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2682	ALL	490786	3860289	8.28E-07	30YrCance	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2683	ALL	490836	3860289	8.02E-07	30YrCance	8.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2684	ALL	490886	3860289	7.79E-07	30YrCance	7.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2685	ALL	490936	3860289	7.57E-07	30YrCance	7.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2686	ALL	490986	3860289	7.40E-07	30YrCance	7.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2687	ALL	491036	3860289	7.23E-07	30YrCance	7.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2688	ALL	491086	3860289	7.07E-07	30YrCance	7.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2689	ALL	490136	3860339	1.62E-06	30YrCance	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2690	ALL	490186	3860339	1.52E-06	30YrCance	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2691	ALL	490236	3860339	1.42E-06	30YrCance	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2692	ALL	490286	3860339	1.34E-06	30YrCance	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2693	ALL	490336	3860339	1.27E-06	30YrCance	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2694	ALL	490386	3860339	1.20E-06	30YrCance	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2695	ALL	490436	3860339	1.14E-06	30YrCance	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2696	ALL	490486	3860339	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2697	ALL	490536	3860339	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2698	ALL	490586	3860339	9.96E-07	30YrCance	9.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2699	ALL	490636	3860339	9.56E-07	30YrCance	9.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2700	ALL	490686	3860339	9.20E-07	30YrCance	9.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2701	ALL	490736	3860339	8.87E-07	30YrCance	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2702	ALL	490786	3860339	8.58E-07	30YrCance	8.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2703	ALL	490836	3860339	8.30E-07	30YrCance	8.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2704	ALL	490886	3860339	8.05E-07	30YrCance	8.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2705	ALL	490936	3860339	7.82E-07	30YrCance	7.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2706	ALL	490986	3860339	7.62E-07	30YrCance	7.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2707	ALL	491036	3860339	7.44E-07	30YrCance	7.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2708	ALL	491086	3860339	7.29E-07	30YrCance	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2709	ALL	490136	3860389	1.67E-06	30YrCance	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2710	ALL	490186	3860389	1.56E-06	30YrCance	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2711	ALL	490236	3860389	1.47E-06	30YrCance	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2712	ALL	490286	3860389	1.39E-06	30YrCance	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2713	ALL	490336	3860389	1.31E-06	30YrCance	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2714	ALL	490386	3860389	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2715	ALL	490436	3860389	1.18E-06	30YrCance	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2716	ALL	490486	3860389	1.13E-06	30YrCance	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2717	ALL	490536	3860389	1.07E-06	30YrCance	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2718	ALL	490586	3860389	1.03E-06	30YrCance	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2719	ALL	490636	3860389	9.86E-07	30YrCance	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2720	ALL	490686	3860389	9.48E-07	30YrCance	9.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2721	ALL	490736	3860389	9.13E-07	30YrCance	9.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2722	ALL	490786	3860389	8.81E-07	30YrCance	8.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2723	ALL	490836	3860389	8.54E-07	30YrCance	8.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2724	ALL	490136	3860439	1.70E-06	30YrCance	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2725	ALL	490186	3860439	1.60E-06	30YrCance	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2726	ALL	490236	3860439	1.50E-06	30YrCance	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2727	ALL	490286	3860439	1.42E-06	30YrCance	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2728	ALL	490336	3860439	1.34E-06	30YrCance	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2729	ALL	490386	3860439	1.27E-06	30YrCance	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2730	ALL	490436	3860439	1.21E-06	30YrCance	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2731	ALL	490486	3860439	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2732	ALL	490536	3860439	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2733	ALL	490586	3860439	1.05E-06	30YrCance	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2734	ALL	490636	3860439	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2735	ALL	490686	3860439	9.70E-07	30YrCance	9.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2736	ALL	490736	3860439	9.35E-07	30YrCance	9.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2737	ALL	490786	3860439	9.03E-07	30YrCance	9.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2738	ALL	490836	3860439	8.74E-07	30YrCance	8.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2739	ALL	490136	3860489	1.73E-06	30YrCance	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2740	ALL	490186	3860489	1.62E-06	30YrCance	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2741	ALL	490236	3860489	1.53E-06	30YrCance	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2742	ALL	490286	3860489	1.44E-06	30YrCance	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2743	ALL	490336	3860489	1.36E-06	30YrCance	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2744	ALL	490386	3860489	1.29E-06	30YrCance	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2745	ALL	490436	3860489	1.23E-06	30YrCance	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2746	ALL	490486	3860489	1.17E-06	30YrCance	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2747	ALL	490536	3860489	1.12E-06	30YrCance	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2748	ALL	490586	3860489	1.07E-06	30YrCance	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2749	ALL	490636	3860489	1.03E-06	30YrCance	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2750	ALL	490686	3860489	9.87E-07	30YrCance	9.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2751	ALL	490736	3860489	9.52E-07	30YrCance	9.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2752	ALL	490786	3860489	9.19E-07	30YrCance	9.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2753	ALL	490136	3860539	1.75E-06	30YrCance	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2754	ALL	490186	3860539	1.65E-06	30YrCance	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2755	ALL	490236	3860539	1.55E-06	30YrCance	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2756	ALL	490286	3860539	1.46E-06	30YrCance	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2757	ALL	490336	3860539	1.38E-06	30YrCance	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2758	ALL	490386	3860539	1.31E-06	30YrCance	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2759	ALL	490436	3860539	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2760	ALL	490486	3860539	1.19E-06	30YrCance	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2761	ALL	490536	3860539	1.14E-06	30YrCance	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2762	ALL	490586	3860539	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2763	ALL	490636	3860539	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2764	ALL	490686	3860539	1.00E-06	30YrCance	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2765	ALL	490736	3860539	9.64E-07	30YrCance	9.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2766	ALL	490786	3860539	9.31E-07	30YrCance	9.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2767	ALL	490136	3860589	1.77E-06	30YrCance	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2768	ALL	490186	3860589	1.64E-06	30YrCance	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2769	ALL	490236	3860589	1.55E-06	30YrCance	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2770	ALL	490286	3860589	1.47E-06	30YrCance	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2771	ALL	490336	3860589	1.39E-06	30YrCance	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2772	ALL	490386	3860589	1.32E-06	30YrCance	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2773	ALL	490436	3860589	1.26E-06	30YrCance	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2774	ALL	490486	3860589	1.20E-06	30YrCance	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2775	ALL	490536	3860589	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2776	ALL	490586	3860589	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2777	ALL	490636	3860589	1.05E-06	30YrCance	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2778	ALL	490686	3860589	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2779	ALL	490736	3860589	9.71E-07	30YrCance	9.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2780	ALL	490786	3860589	9.38E-07	30YrCance	9.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2781	ALL	490136	3860639	1.77E-06	30YrCance	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2782	ALL	490186	3860639	1.66E-06	30YrCance	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2783	ALL	490236	3860639	1.55E-06	30YrCance	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2784	ALL	490286	3860639	1.47E-06	30YrCance	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2785	ALL	490336	3860639	1.39E-06	30YrCance	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2786	ALL	490386	3860639	1.32E-06	30YrCance	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2787	ALL	490436	3860639	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2788	ALL	490486	3860639	1.20E-06	30YrCance	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2789	ALL	490536	3860639	1.14E-06	30YrCance	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2790	ALL	490586	3860639	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2791	ALL	490636	3860639	1.05E-06	30YrCance	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2792	ALL	490686	3860639	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2793	ALL	490736	3860639	9.75E-07	30YrCance	9.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2794	ALL	490786	3860639	9.43E-07	30YrCance	9.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2795	ALL	490136	3860689	1.76E-06	30YrCance	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2796	ALL	490186	3860689	1.65E-06	30YrCance	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2797	ALL	490236	3860689	1.55E-06	30YrCance	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2798	ALL	490286	3860689	1.45E-06	30YrCance	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2799	ALL	490336	3860689	1.38E-06	30YrCance	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2800	ALL	490386	3860689	1.31E-06	30YrCance	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2801	ALL	490436	3860689	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2802	ALL	490486	3860689	1.19E-06	30YrCance	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2803	ALL	490536	3860689	1.14E-06	30YrCance	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2804	ALL	490586	3860689	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2805	ALL	490636	3860689	1.05E-06	30YrCance	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2806	ALL	490686	3860689	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2807	ALL	490736	3860689	9.78E-07	30YrCance	9.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2808	ALL	490786	3860689	9.48E-07	30YrCance	9.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2809	ALL	490136	3860739	1.73E-06	30YrCance	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2810	ALL	490186	3860739	1.61E-06	30YrCance	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2811	ALL	490236	3860739	1.52E-06	30YrCance	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2812	ALL	490286	3860739	1.43E-06	30YrCance	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2813	ALL	490336	3860739	1.36E-06	30YrCance	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2814	ALL	490386	3860739	1.29E-06	30YrCance	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2815	ALL	490436	3860739	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2816	ALL	490486	3860739	1.18E-06	30YrCance	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2817	ALL	490536	3860739	1.13E-06	30YrCance	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2818	ALL	490586	3860739	1.08E-06	30YrCance	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2819	ALL	490636	3860739	1.05E-06	30YrCance	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2820	ALL	490686	3860739	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2821	ALL	490736	3860739	9.79E-07	30YrCance	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2822	ALL	490786	3860739	9.51E-07	30YrCance	9.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2823	ALL	490136	3860789	1.68E-06	30YrCance	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2824	ALL	490186	3860789	1.58E-06	30YrCance	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2825	ALL	490236	3860789	1.48E-06	30YrCance	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2826	ALL	490286	3860789	1.40E-06	30YrCance	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2827	ALL	490336	3860789	1.33E-06	30YrCance	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2828	ALL	490386	3860789	1.27E-06	30YrCance	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2829	ALL	490436	3860789	1.22E-06	30YrCance	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2830	ALL	490486	3860789	1.17E-06	30YrCance	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2831	ALL	490536	3860789	1.12E-06	30YrCance	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2832	ALL	490586	3860789	1.08E-06	30YrCance	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2833	ALL	490636	3860789	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2834	ALL	490686	3860789	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2835	ALL	490736	3860789	9.80E-07	30YrCance	9.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2836	ALL	490786	3860789	9.54E-07	30YrCance	9.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2837	ALL	489986	3860839	2.01E-06	30YrCance	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2838	ALL	490036	3860839	1.86E-06	30YrCance	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2839	ALL	490086	3860839	1.73E-06	30YrCance	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2840	ALL	490136	3860839	1.62E-06	30YrCance	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2841	ALL	490186	3860839	1.52E-06	30YrCance	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2842	ALL	490236	3860839	1.44E-06	30YrCance	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2843	ALL	490286	3860839	1.37E-06	30YrCance	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2844	ALL	490336	3860839	1.30E-06	30YrCance	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2845	ALL	490386	3860839	1.25E-06	30YrCance	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2846	ALL	490436	3860839	1.20E-06	30YrCance	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2847	ALL	490486	3860839	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2848	ALL	490536	3860839	1.11E-06	30YrCance	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2849	ALL	490586	3860839	1.08E-06	30YrCance	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2850	ALL	490636	3860839	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2851	ALL	490686	3860839	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2852	ALL	490736	3860839	9.89E-07	30YrCance	9.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2853	ALL	490786	3860839	9.65E-07	30YrCance	9.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2854	ALL	490836	3860839	9.44E-07	30YrCance	9.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2855	ALL	489836	3860889	2.52E-06	30YrCance	2.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2856	ALL	489886	3860889	2.25E-06	30YrCance	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2857	ALL	489936	3860889	2.05E-06	30YrCance	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2858	ALL	489986	3860889	1.89E-06	30YrCance	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2859	ALL	490036	3860889	1.75E-06	30YrCance	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2860	ALL	490086	3860889	1.64E-06	30YrCance	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2861	ALL	490136	3860889	1.55E-06	30YrCance	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2862	ALL	490186	3860889	1.46E-06	30YrCance	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2863	ALL	490236	3860889	1.39E-06	30YrCance	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2864	ALL	490286	3860889	1.33E-06	30YrCance	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2865	ALL	490336	3860889	1.28E-06	30YrCance	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2866	ALL	490386	3860889	1.23E-06	30YrCance	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2867	ALL	490436	3860889	1.19E-06	30YrCance	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2868	ALL	490486	3860889	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2869	ALL	490536	3860889	1.12E-06	30YrCance	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2870	ALL	490586	3860889	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2871	ALL	490636	3860889	1.06E-06	30YrCance	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2872	ALL	490686	3860889	1.03E-06	30YrCance	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2873	ALL	490736	3860889	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2874	ALL	490786	3860889	9.89E-07	30YrCance	9.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2875	ALL	490836	3860889	9.71E-07	30YrCance	9.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2876	ALL	490886	3860889	9.57E-07	30YrCance	9.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2877	ALL	490936	3860889	9.44E-07	30YrCance	9.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2878	ALL	489836	3860939	2.16E-06	30YrCance	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2879	ALL	489886	3860939	1.99E-06	30YrCance	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2880	ALL	489936	3860939	1.85E-06	30YrCance	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2881	ALL	489986	3860939	1.74E-06	30YrCance	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2882	ALL	490036	3860939	1.64E-06	30YrCance	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2883	ALL	490086	3860939	1.56E-06	30YrCance	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2884	ALL	490136	3860939	1.48E-06	30YrCance	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2885	ALL	490186	3860939	1.42E-06	30YrCance	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2886	ALL	490236	3860939	1.37E-06	30YrCance	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2887	ALL	490286	3860939	1.32E-06	30YrCance	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2888	ALL	490336	3860939	1.28E-06	30YrCance	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2889	ALL	490386	3860939	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2890	ALL	490436	3860939	1.21E-06	30YrCance	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2891	ALL	490486	3860939	1.18E-06	30YrCance	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2892	ALL	490536	3860939	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2893	ALL	490586	3860939	1.12E-06	30YrCance	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2894	ALL	490636	3860939	1.10E-06	30YrCance	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2895	ALL	490686	3860939	1.08E-06	30YrCance	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2896	ALL	490736	3860939	1.06E-06	30YrCance	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2897	ALL	490786	3860939	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2898	ALL	490836	3860939	1.03E-06	30YrCance	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2899	ALL	490886	3860939	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2900	ALL	490936	3860939	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2901	ALL	489836	3860989	1.86E-06	30YrCance	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2902	ALL	489886	3860989	1.78E-06	30YrCance	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2903	ALL	489936	3860989	1.70E-06	30YrCance	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2904	ALL	489986	3860989	1.64E-06	30YrCance	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2905	ALL	490036	3860989	1.58E-06	30YrCance	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2906	ALL	490086	3860989	1.53E-06	30YrCance	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2907	ALL	490136	3860989	1.48E-06	30YrCance	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2908	ALL	490186	3860989	1.44E-06	30YrCance	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2909	ALL	490236	3860989	1.40E-06	30YrCance	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2910	ALL	490286	3860989	1.36E-06	30YrCance	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2911	ALL	490336	3860989	1.33E-06	30YrCance	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2912	ALL	490386	3860989	1.31E-06	30YrCance	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2913	ALL	490436	3860989	1.28E-06	30YrCance	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2914	ALL	490486	3860989	1.26E-06	30YrCance	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2915	ALL	490536	3860989	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2916	ALL	490586	3860989	1.22E-06	30YrCance	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2917	ALL	490636	3860989	1.20E-06	30YrCance	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2918	ALL	490686	3860989	1.19E-06	30YrCance	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2919	ALL	490736	3860989	1.17E-06	30YrCance	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2920	ALL	490786	3860989	1.16E-06	30YrCance	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2921	ALL	490836	3860989	1.15E-06	30YrCance	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2922	ALL	490886	3860989	1.14E-06	30YrCance	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2923	ALL	490936	3860989	1.13E-06	30YrCance	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2924	ALL	489836	3861039	1.76E-06	30YrCance	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2925	ALL	489886	3861039	1.74E-06	30YrCance	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2926	ALL	489936	3861039	1.71E-06	30YrCance	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2927	ALL	489986	3861039	1.68E-06	30YrCance	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2928	ALL	490036	3861039	1.65E-06	30YrCance	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2929	ALL	490086	3861039	1.63E-06	30YrCance	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2930	ALL	490136	3861039	1.60E-06	30YrCance	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2931	ALL	490186	3861039	1.58E-06	30YrCance	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2932	ALL	490236	3861039	1.56E-06	30YrCance	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2933	ALL	490286	3861039	1.54E-06	30YrCance	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2934	ALL	490336	3861039	1.52E-06	30YrCance	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2935	ALL	490386	3861039	1.50E-06	30YrCance	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2936	ALL	490436	3861039	1.49E-06	30YrCance	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2937	ALL	490486	3861039	1.48E-06	30YrCance	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2938	ALL	490536	3861039	1.46E-06	30YrCance	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2939	ALL	490586	3861039	1.45E-06	30YrCance	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2940	ALL	490636	3861039	1.44E-06	30YrCance	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2941	ALL	490686	3861039	1.43E-06	30YrCance	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2942	ALL	490736	3861039	1.42E-06	30YrCance	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2943	ALL	490786	3861039	1.41E-06	30YrCance	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2944	ALL	490836	3861039	1.40E-06	30YrCance	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2945	ALL	490886	3861039	1.40E-06	30YrCance	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2946	ALL	490936	3861039	1.39E-06	30YrCance	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2947	ALL	489836	3861089	2.12E-06	30YrCance	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2948	ALL	489886	3861089	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2949	ALL	489936	3861089	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2950	ALL	489986	3861089	2.14E-06	30YrCance	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2951	ALL	490036	3861089	2.14E-06	30YrCance	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2952	ALL	490086	3861089	2.14E-06	30YrCance	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2953	ALL	490136	3861089	2.14E-06	30YrCance	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2954	ALL	490186	3861089	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2955	ALL	490236	3861089	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2956	ALL	490286	3861089	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2957	ALL	490336	3861089	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2958	ALL	490386	3861089	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2959	ALL	490436	3861089	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2960	ALL	490486	3861089	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2961	ALL	490536	3861089	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2962	ALL	490586	3861089	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2963	ALL	490636	3861089	2.12E-06	30YrCance	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2964	ALL	490686	3861089	2.12E-06	30YrCance	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2965	ALL	490736	3861089	2.12E-06	30YrCance	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2966	ALL	490786	3861089	2.13E-06	30YrCance	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2967	ALL	490836	3861089	2.14E-06	30YrCance	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2968	ALL	490886	3861089	2.15E-06	30YrCance	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2969	ALL	490936	3861089	2.16E-06	30YrCance	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2970	ALL	489020.8	3862565	1.21E-07	30YrCance	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2971	ALL	489043.2	3862350	1.41E-07	30YrCance	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2972	ALL	489073	3862288	1.53E-07	30YrCance	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2973	ALL	488980.6	3862079	1.63E-07	30YrCance	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2974	ALL	489037.2	3862823	1.08E-07	30YrCance	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2975	ALL	489120.7	3863016	1.22E-07	30YrCance	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2976	ALL	489037.2	3863350	8.37E-08	30YrCance	8.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3.87E-06

3.87E+00

HARP2 - HRACalc (dated 22118) 7/17/2024 10:53:21 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
SOIL & DERMAL PATHWAY SETTINGS

```
Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

**********
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

**********
TIER 2 SETTINGS
Tier2 not used.

**********

Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\dlarocca\Desktop\HARP2
Files\LENWOODOP\hra\OperationChronicNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\dlarocca\Desktop\HARP2
Files\LENWOODOP\hra\OperationChronicNCChronicRiskSumByRec.csv
HRA ran successfully
```

*HARP - HRACalc v22118 7/17/2024 10:53:21 AM - Chronic Risk - Input File: C:\Users\dlarocca\Desktop\HARP2 Files\LENWOODOP\hra\OperationChronicHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL	UCART1	489237.3	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-04
2	ALL	UCART1	489256.6	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
3	ALL	UCART1	489275.9	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
4	ALL	UCART1	489295.2	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04
5	ALL	UCART1	489314.5	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
6	ALL	UCART1	489333.8	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
7	ALL	UCART1	489353.1	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
8	ALL	UCART1	489372.4	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
9	ALL	UCART1	489391.7	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
10	ALL	UCART1	489411	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
11	ALL	UCART1	489430.3	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
12	ALL	UCART1	489449.6	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
13	ALL	UCART1	489468.9	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
14	ALL	UCART1	489488.2	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
15	ALL	UCART1	489507.5	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
16	ALL	UCART1	489526.8	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
17	ALL	UCART1	489546.1	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
18	ALL	UCART1	489565.4	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
19	ALL	UCART1	489584.7	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
20	ALL	UCART1	489604	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
21	ALL	UCART1	489623.3	3859569	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
22	ALL	UCART1	489237.3	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04
23	ALL	UCART1	489256.6	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04
24	ALL	UCART1	489275.9	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04
25	ALL	UCART1	489295.2	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
26	ALL	UCART1	489314.5	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04
27	ALL	UCART1	489333.8	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
28	ALL	UCART1	489353.1	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
29	ALL	UCART1	489372.4	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
30	ALL	UCART1	489391.7	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
31	ALL	UCART1	489411	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
32	ALL	UCART1	489430.3	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
33	ALL	UCART1	489449.6	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
34	ALL	UCART1	489468.9	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
35	ALL	UCART1	489488.2	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
36	ALL	UCART1	489507.5	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
37	ALL	UCART1	489526.8	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
38	ALL	UCART1	489546.1	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
39	ALL	UCART1	489565.4	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
40	ALL	UCART1	489584.7	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
41	ALL	UCART1	489604	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
42	ALL	UCART1	489623.3	3859588	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
43	ALL	UCART1	489237.3	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04
44	ALL	UCART1	489256.6	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04
45	ALL	UCART1	489275.9	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04
46	ALL	UCART1	489295.2	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
47	ALL	UCART1	489314.5	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
48	ALL	UCART1	489333.8	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04

49	ALL	UCART1	489353.1	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
50	ALL	UCART1	489372.4	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
51	ALL	UCART1	489391.7	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
52	ALL	UCART1	489411	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
53	ALL	UCART1	489430.3	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
54	ALL	UCART1	489449.6	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
55	ALL	UCART1	489468.9	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
56	ALL	UCART1	489488.2	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
57	ALL	UCART1	489507.5	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
58	ALL	UCART1	489526.8	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
59	ALL	UCART1	489546.1	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
60	ALL	UCART1	489565.4	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
61	ALL	UCART1	489584.7	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
62	ALL	UCART1	489604	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
63	ALL	UCART1	489623.3	3859608	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
64	ALL	UCART1	489237.3	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-04
65	ALL	UCART1	489256.6	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04
66	ALL	UCART1	489275.9	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
67	ALL	UCART1	489295.2	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
68	ALL	UCART1	489314.5	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
69	ALL	UCART1	489333.8	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
70	ALL	UCART1	489353.1	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
71	ALL	UCART1	489372.4	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
72	ALL	UCART1	489391.7	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
73	ALL	UCART1	489411	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
74	ALL	UCART1	489430.3	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
75	ALL	UCART1	489449.6	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
76	ALL	UCART1	489468.9	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
77	ALL	UCART1	489488.2	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
78	ALL	UCART1	489507.5	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
79	ALL	UCART1	489526.8	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
80	ALL	UCART1	489546.1	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
81	ALL	UCART1	489565.4	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
82	ALL	UCART1	489584.7	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
83	ALL	UCART1	489604	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
84	ALL	UCART1	489623.3	3859627	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
85	ALL	UCART1	489237.3	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04
86	ALL	UCART1	489256.6	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04
87	ALL	UCART1	489275.9	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04
88	ALL	UCART1	489295.2	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
89	ALL	UCART1	489314.5	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
90	ALL	UCART1	489333.8	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
91	ALL	UCART1	489353.1	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
92	ALL	UCART1	489372.4	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
93	ALL	UCART1	489391.7	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
94	ALL	UCART1	489411	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
95	ALL	UCART1	489430.3	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
96	ALL	UCART1	489449.6	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
97	ALL	UCART1	489468.9	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
98	ALL	UCART1	489488.2	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04

99	ALL	UCART1	489507.5	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
100	ALL	UCART1	489526.8	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
101	ALL	UCART1	489546.1	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
102	ALL	UCART1	489565.4	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
103	ALL	UCART1	489584.7	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
104	ALL	UCART1	489604	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
105	ALL	UCART1	489623.3	3859646	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
106	ALL	UCART1	489237.3	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-04
107	ALL	UCART1	489256.6	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04
108	ALL	UCART1	489275.9	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04
109	ALL	UCART1	489295.2	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04
110	ALL	UCART1	489314.5	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
111	ALL	UCART1	489333.8	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
112	ALL	UCART1	489353.1	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04
113	ALL	UCART1	489372.4	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
114	ALL	UCART1	489391.7	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
115	ALL	UCART1	489411	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
116	ALL	UCART1	489430.3	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
117	ALL	UCART1	489449.6	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
118	ALL	UCART1	489468.9	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
119	ALL	UCART1	489488.2	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
120	ALL	UCART1	489507.5	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
121	ALL	UCART1	489526.8	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
122	ALL	UCART1	489546.1	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
123	ALL	UCART1	489565.4	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
124	ALL	UCART1	489584.7	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
125	ALL	UCART1	489604	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
126	ALL	UCART1	489623.3	3859666	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
127	ALL	UCART1	489237.3	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-04
128	ALL	UCART1	489256.6	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04
129	ALL	UCART1	489275.9	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04
130	ALL	UCART1	489295.2	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
131	ALL	UCART1	489314.5	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
132	ALL	UCART1	489333.8	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
133	ALL	UCART1	489353.1	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04
134	ALL	UCART1	489372.4	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
135	ALL	UCART1	489391.7	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
136	ALL	UCART1	489411	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
137	ALL	UCART1	489430.3	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
138	ALL	UCART1	489449.6	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
139	ALL	UCART1	489468.9	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
140	ALL	UCART1	489488.2	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
141	ALL	UCART1	489507.5	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
142	ALL	UCART1	489526.8	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
143	ALL	UCART1	489546.1	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
144	ALL	UCART1	489565.4	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
145	ALL	UCART1	489584.7	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
146	ALL	UCART1	489604	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
147	ALL	UCART1	489623.3	3859685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
148	ALL	UCART1	489237.3	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04

149	ALL	UCART1	489256.6	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
150	ALL	UCART1	489275.9	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04
151	ALL	UCART1	489295.2	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
152	ALL	UCART1	489314.5	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
153	ALL	UCART1	489333.8	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
154	ALL	UCART1	489353.1	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
155	ALL	UCART1	489372.4	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
156	ALL	UCART1	489391.7	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
157	ALL	UCART1	489411	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
158	ALL	UCART1	489430.3	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
159	ALL	UCART1	489449.6	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
160	ALL	UCART1	489468.9	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
161	ALL	UCART1	489488.2	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
162	ALL	UCART1	489507.5	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
163	ALL	UCART1	489526.8	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
164	ALL	UCART1	489546.1	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
165	ALL	UCART1	489565.4	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
166	ALL	UCART1	489584.7	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
167	ALL	UCART1	489604	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
168	ALL	UCART1	489623.3	3859705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
169	ALL	UCART1	489237.3	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-04
170	ALL	UCART1	489256.6	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04
171	ALL	UCART1	489275.9	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04
172	ALL	UCART1	489295.2	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
173	ALL	UCART1	489314.5	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04
174	ALL	UCART1	489333.8	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04
175	ALL	UCART1	489353.1	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
176	ALL	UCART1	489372.4	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
177	ALL	UCART1	489391.7	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
178	ALL	UCART1	489411	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
179	ALL	UCART1	489430.3	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
180	ALL	UCART1	489449.6	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
181	ALL	UCART1	489468.9	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
182	ALL	UCART1	489488.2	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
183	ALL	UCART1	489507.5	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
184	ALL	UCART1	489526.8	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
185	ALL	UCART1	489546.1	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
186	ALL	UCART1	489565.4	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
187	ALL	UCART1	489584.7	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
188	ALL	UCART1	489604	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
189	ALL	UCART1	489623.3	3859724	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
190	ALL	UCART1	489237.3	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04
191	ALL	UCART1	489256.6	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-04
192	ALL	UCART1	489275.9	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
193	ALL	UCART1	489295.2	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04
194	ALL	UCART1	489314.5	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
195	ALL	UCART1	489333.8	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
196	ALL	UCART1	489353.1	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
197	ALL	UCART1	489372.4	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
198	ALL	UCART1	489391.7	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04

199	ALL	UCART1	489411	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
200	ALL	UCART1	489430.3	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
201	ALL	UCART1	489449.6	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
202	ALL	UCART1	489468.9	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
203	ALL	UCART1	489488.2	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
204	ALL	UCART1	489507.5	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
205	ALL	UCART1	489526.8	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
206	ALL	UCART1	489546.1	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
207	ALL	UCART1	489565.4	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
208	ALL	UCART1	489584.7	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
209	ALL	UCART1	489604	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
210	ALL	UCART1	489623.3	3859743	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
211	ALL	UCART1	489237.3	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-04
212	ALL	UCART1	489256.6	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04
213	ALL	UCART1	489275.9	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04
214	ALL	UCART1	489295.2	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
215	ALL	UCART1	489314.5	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04
216	ALL	UCART1	489333.8	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
217	ALL	UCART1	489353.1	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
218	ALL	UCART1	489372.4	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
219	ALL	UCART1	489391.7	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
220	ALL	UCART1	489411	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
221	ALL	UCART1	489430.3	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
222	ALL	UCART1	489449.6	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
223	ALL	UCART1	489468.9	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
224	ALL	UCART1	489488.2	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
225	ALL	UCART1	489507.5	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
226	ALL	UCART1	489526.8	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
227	ALL	UCART1	489546.1	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
228	ALL	UCART1	489565.4	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
229	ALL	UCART1	489584.7	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
230	ALL	UCART1	489604	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
231	ALL	UCART1	489623.3	3859763	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
232	ALL	UCART1	489237.3	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04
233	ALL	UCART1	489256.6	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-04
234	ALL	UCART1	489275.9	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04
235	ALL	UCART1	489295.2	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
236	ALL	UCART1	489314.5	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04
237	ALL	UCART1	489333.8	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04
238	ALL	UCART1	489353.1	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
239	ALL	UCART1	489372.4	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
240	ALL	UCART1	489391.7	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
241	ALL	UCART1	489411	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
242	ALL	UCART1	489430.3	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
243	ALL	UCART1	489449.6	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
244	ALL	UCART1	489468.9	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
245	ALL	UCART1	489488.2	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
246	ALL	UCART1	489507.5	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
247	ALL	UCART1	489526.8	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
248	ALL	UCART1	489546.1	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04

249	ALL	UCART1	489565.4	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
250	ALL	UCART1	489584.7	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
251	ALL	UCART1	489604	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
252	ALL	UCART1	489623.3	3859782	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
253	ALL	UCART1	489237.3	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04
254	ALL	UCART1	489256.6	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04
255	ALL	UCART1	489275.9	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
256	ALL	UCART1	489295.2	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
257	ALL	UCART1	489314.5	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
258	ALL	UCART1	489333.8	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04
259	ALL	UCART1	489353.1	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
260	ALL	UCART1	489372.4	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
261	ALL	UCART1	489391.7	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
262	ALL	UCART1	489411	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
263	ALL	UCART1	489430.3	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
264	ALL	UCART1	489449.6	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
265	ALL	UCART1	489468.9	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
266	ALL	UCART1	489488.2	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
267	ALL	UCART1	489507.5	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
268	ALL	UCART1	489526.8	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
269	ALL	UCART1	489546.1	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
270	ALL	UCART1	489565.4	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
271	ALL	UCART1	489584.7	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
272	ALL	UCART1	489604	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
273	ALL	UCART1	489623.3	3859802	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
274	ALL	UCART1	489237.3	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04
275	ALL	UCART1	489256.6	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04
276	ALL	UCART1	489275.9	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-04
277	ALL	UCART1	489295.2	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04
278	ALL	UCART1	489314.5	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04
279	ALL	UCART1	489333.8	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04
280	ALL	UCART1	489353.1	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
281	ALL	UCART1	489372.4	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
282	ALL	UCART1	489391.7	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
283	ALL	UCART1	489411	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
284	ALL	UCART1	489430.3	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
285	ALL	UCART1	489449.6	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
286	ALL	UCART1	489468.9	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
287	ALL	UCART1	489488.2	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
288	ALL	UCART1	489507.5	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
289	ALL	UCART1	489526.8	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
290	ALL	UCART1	489546.1	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
291	ALL	UCART1	489565.4	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
292	ALL	UCART1	489584.7	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
293	ALL	UCART1	489604	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
294	ALL	UCART1	489623.3	3859821	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
295	ALL	UCART1	489237.3	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04
296	ALL	UCART1	489256.6	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04
297	ALL	UCART1	489275.9	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04
298	ALL	UCART1	489295.2	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04

299	ALL	UCART1	489314.5	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
300	ALL	UCART1	489333.8	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
301	ALL	UCART1	489353.1	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
302	ALL	UCART1	489372.4	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
303	ALL	UCART1	489391.7	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
304	ALL	UCART1	489411	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
305	ALL	UCART1	489430.3	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
306	ALL	UCART1	489449.6	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
307	ALL	UCART1	489468.9	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
308	ALL	UCART1	489488.2	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
309	ALL	UCART1	489507.5	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
310	ALL	UCART1	489526.8	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
311	ALL	UCART1	489546.1	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
312	ALL	UCART1	489565.4	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
313	ALL	UCART1	489584.7	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
314	ALL	UCART1	489604	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
315	ALL	UCART1	489623.3	3859841	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
316	ALL	UCART1	489237.3	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04
317	ALL	UCART1	489256.6	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-04
318	ALL	UCART1	489275.9	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04
319	ALL	UCART1	489295.2	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04
320	ALL	UCART1	489314.5	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04
321	ALL	UCART1	489333.8	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
322	ALL	UCART1	489353.1	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
323	ALL	UCART1	489372.4	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
324	ALL	UCART1	489391.7	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
325	ALL	UCART1	489411	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
326	ALL	UCART1	489430.3	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
327	ALL	UCART1	489449.6	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
328	ALL	UCART1	489468.9	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
329	ALL	UCART1	489488.2	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
330	ALL	UCART1	489507.5	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
331	ALL	UCART1	489526.8	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
332	ALL	UCART1	489546.1	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
333	ALL	UCART1	489565.4	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
334	ALL	UCART1	489584.7	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
335	ALL	UCART1	489604	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
336	ALL	UCART1	489623.3	3859860	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
337	ALL	UCART1	489237.3	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04
338	ALL	UCART1	489256.6	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04
339	ALL	UCART1	489275.9	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
340	ALL	UCART1	489295.2	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04
341	ALL	UCART1	489314.5	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04
342	ALL	UCART1	489333.8	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
343	ALL	UCART1	489353.1	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04
344	ALL	UCART1	489372.4	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
345	ALL	UCART1	489391.7	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
346	ALL	UCART1	489411	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
347	ALL	UCART1	489430.3	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
348	ALL	UCART1	489449.6	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04

349	ALL	UCART1	489468.9	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
350	ALL	UCART1	489488.2	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
351	ALL	UCART1	489507.5	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
352	ALL	UCART1	489526.8	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
353	ALL	UCART1	489546.1	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
354	ALL	UCART1	489565.4	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
355	ALL	UCART1	489584.7	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
356	ALL	UCART1	489604	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
357	ALL	UCART1	489623.3	3859879	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
358	ALL	UCART1	489237.3	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04
359	ALL	UCART1	489256.6	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04
360	ALL	UCART1	489275.9	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04
361	ALL	UCART1	489295.2	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04
362	ALL	UCART1	489314.5	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
363	ALL	UCART1	489333.8	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04
364	ALL	UCART1	489353.1	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
365	ALL	UCART1	489372.4	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
366	ALL	UCART1	489391.7	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
367	ALL	UCART1	489411	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
368	ALL	UCART1	489430.3	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
369	ALL	UCART1	489449.6	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
370	ALL	UCART1	489468.9	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
371	ALL	UCART1	489488.2	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
372	ALL	UCART1	489507.5	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
373	ALL	UCART1	489526.8	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
374	ALL	UCART1	489546.1	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
375	ALL	UCART1	489565.4	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
376	ALL	UCART1	489584.7	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
377	ALL	UCART1	489604	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
378	ALL	UCART1	489623.3	3859899	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
379	ALL	UCART1	489237.3	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04
380	ALL	UCART1	489256.6	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04
381	ALL	UCART1	489275.9	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04
382	ALL	UCART1	489295.2	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04
383	ALL	UCART1	489314.5	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
384	ALL	UCART1	489333.8	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
385	ALL	UCART1	489353.1	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04
386	ALL	UCART1	489372.4	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
387	ALL	UCART1	489391.7	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
388	ALL	UCART1	489411	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
389	ALL	UCART1	489430.3	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
390	ALL	UCART1	489449.6	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
391	ALL	UCART1	489468.9	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
392	ALL	UCART1	489488.2	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
393	ALL	UCART1	489507.5	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
394	ALL	UCART1	489526.8	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
395	ALL	UCART1	489546.1	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
396	ALL	UCART1	489565.4	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
397	ALL	UCART1	489584.7	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
398	ALL	UCART1	489604	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04

399	ALL	UCART1	489623.3	3859918	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
400	ALL	UCART1	489237.3	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04
401	ALL	UCART1	489256.6	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04
402	ALL	UCART1	489275.9	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04
403	ALL	UCART1	489295.2	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04
404	ALL	UCART1	489314.5	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04
405	ALL	UCART1	489333.8	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
406	ALL	UCART1	489353.1	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
407	ALL	UCART1	489372.4	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
408	ALL	UCART1	489391.7	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
409	ALL	UCART1	489411	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
410	ALL	UCART1	489430.3	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
411	ALL	UCART1	489449.6	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
412	ALL	UCART1	489468.9	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
413	ALL	UCART1	489488.2	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
414	ALL	UCART1	489507.5	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
415	ALL	UCART1	489526.8	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
416	ALL	UCART1	489546.1	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
417	ALL	UCART1	489565.4	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
418	ALL	UCART1	489584.7	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
419	ALL	UCART1	489604	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
420	ALL	UCART1	489623.3	3859938	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
421	ALL	UCART1	489237.3	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04
422	ALL	UCART1	489256.6	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04
423	ALL	UCART1	489275.9	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04
424	ALL	UCART1	489295.2	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04
425	ALL	UCART1	489314.5	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04
426	ALL	UCART1	489333.8	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04
427	ALL	UCART1	489353.1	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
428	ALL	UCART1	489372.4	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
429	ALL	UCART1	489391.7	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
430	ALL	UCART1	489411	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
431	ALL	UCART1	489430.3	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
432	ALL	UCART1	489449.6	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
433	ALL	UCART1	489468.9	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
434	ALL	UCART1	489488.2	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
435	ALL	UCART1	489507.5	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
436	ALL	UCART1	489526.8	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
437	ALL	UCART1	489546.1	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
438	ALL	UCART1	489565.4	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
439	ALL	UCART1	489584.7	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
440	ALL	UCART1	489604	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
441	ALL	UCART1	489623.3	3859957	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
442	ALL	UCART2	489260.3	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04
443	ALL	UCART2	489285	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04
444	ALL	UCART2	489309.6	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04
445	ALL	UCART2	489334.3	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
446	ALL	UCART2	489358.9	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
447	ALL	UCART2	489383.6	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
448	ALL	UCART2	489408.2	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04

449	ALL	UCART2	489432.9	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
450	ALL	UCART2	489457.5	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
451	ALL	UCART2	489482.2	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
452	ALL	UCART2	489506.8	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
453	ALL	UCART2	489531.5	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
454	ALL	UCART2	489556.1	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
455	ALL	UCART2	489580.8	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
456	ALL	UCART2	489605.4	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
457	ALL	UCART2	489630.1	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
458	ALL	UCART2	489654.7	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
459	ALL	UCART2	489679.4	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
460	ALL	UCART2	489704	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
461	ALL	UCART2	489728.7	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
462	ALL	UCART2	489753.3	3858742	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
463	ALL	UCART2	489260.3	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04
464	ALL	UCART2	489285	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04
465	ALL	UCART2	489309.6	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
466	ALL	UCART2	489334.3	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
467	ALL	UCART2	489358.9	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
468	ALL	UCART2	489383.6	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
469	ALL	UCART2	489408.2	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
470	ALL	UCART2	489432.9	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
471	ALL	UCART2	489457.5	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
472	ALL	UCART2	489482.2	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
473	ALL	UCART2	489506.8	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
474	ALL	UCART2	489531.5	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
475	ALL	UCART2	489556.1	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
476	ALL	UCART2	489580.8	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
477	ALL	UCART2	489605.4	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
478	ALL	UCART2	489630.1	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
479	ALL	UCART2	489654.7	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
480	ALL	UCART2	489679.4	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
481	ALL	UCART2	489704	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
482	ALL	UCART2	489728.7	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
483	ALL	UCART2	489753.3	3858764	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
484	ALL	UCART2	489260.3	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
485	ALL	UCART2	489285	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04
486	ALL	UCART2	489309.6	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
487	ALL	UCART2	489334.3	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
488	ALL	UCART2	489358.9	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
489	ALL	UCART2	489383.6	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
490	ALL	UCART2	489408.2	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
491	ALL	UCART2	489432.9	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
492	ALL	UCART2	489457.5	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
493	ALL	UCART2	489482.2	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
494	ALL	UCART2	489506.8	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
495	ALL	UCART2	489531.5	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
496	ALL	UCART2	489556.1	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
497	ALL	UCART2	489580.8	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
498	ALL	UCART2	489605.4	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04

499	ALL	UCART2	489630.1	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
500	ALL	UCART2	489654.7	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
501	ALL	UCART2	489679.4	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
502	ALL	UCART2	489704	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
503	ALL	UCART2	489728.7	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
504	ALL	UCART2	489753.3	3858785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
505	ALL	UCART2	489260.3	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04
506	ALL	UCART2	489285	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04
507	ALL	UCART2	489309.6	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
508	ALL	UCART2	489334.3	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
509	ALL	UCART2	489358.9	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
510	ALL	UCART2	489383.6	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
511	ALL	UCART2	489408.2	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
512	ALL	UCART2	489432.9	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
513	ALL	UCART2	489457.5	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
514	ALL	UCART2	489482.2	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
515	ALL	UCART2	489506.8	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
516	ALL	UCART2	489531.5	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
517	ALL	UCART2	489556.1	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
518	ALL	UCART2	489580.8	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
519	ALL	UCART2	489605.4	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
520	ALL	UCART2	489630.1	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
521	ALL	UCART2	489654.7	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
522	ALL	UCART2	489679.4	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
523	ALL	UCART2	489704	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
524	ALL	UCART2	489728.7	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
525	ALL	UCART2	489753.3	3858807	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
526	ALL	UCART2	489260.3	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04
527	ALL	UCART2	489285	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04
528	ALL	UCART2	489309.6	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
529	ALL	UCART2	489334.3	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
530	ALL	UCART2	489358.9	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
531	ALL	UCART2	489383.6	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
532	ALL	UCART2	489408.2	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
533	ALL	UCART2	489432.9	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
534	ALL	UCART2	489457.5	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
535	ALL	UCART2	489482.2	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
536	ALL	UCART2	489506.8	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
537	ALL	UCART2	489531.5	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
538	ALL	UCART2	489556.1	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
539	ALL	UCART2	489580.8	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
540	ALL	UCART2	489605.4	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
541	ALL	UCART2	489630.1	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
542	ALL	UCART2	489654.7	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
543	ALL	UCART2	489679.4	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
544	ALL	UCART2	489704	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
545	ALL	UCART2	489728.7	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
546	ALL	UCART2	489753.3	3858828	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
547	ALL	UCART2	489260.3	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04
548	ALL	UCART2	489285	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04

549	ALL	UCART2	489309.6	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
550	ALL	UCART2	489334.3	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
551	ALL	UCART2	489358.9	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
552	ALL	UCART2	489383.6	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
553	ALL	UCART2	489408.2	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
554	ALL	UCART2	489432.9	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
555	ALL	UCART2	489457.5	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
556	ALL	UCART2	489482.2	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
557	ALL	UCART2	489506.8	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
558	ALL	UCART2	489531.5	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
559	ALL	UCART2	489556.1	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
560	ALL	UCART2	489580.8	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
561	ALL	UCART2	489605.4	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
562	ALL	UCART2	489630.1	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
563	ALL	UCART2	489654.7	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
564	ALL	UCART2	489679.4	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
565	ALL	UCART2	489704	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
566	ALL	UCART2	489728.7	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
567	ALL	UCART2	489753.3	3858850	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
568	ALL	UCART2	489260.3	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
569	ALL	UCART2	489285	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04
570	ALL	UCART2	489309.6	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
571	ALL	UCART2	489334.3	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
572	ALL	UCART2	489358.9	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
573	ALL	UCART2	489383.6	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
574	ALL	UCART2	489408.2	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
575	ALL	UCART2	489432.9	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
576	ALL	UCART2	489457.5	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
577	ALL	UCART2	489482.2	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
578	ALL	UCART2	489506.8	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
579	ALL	UCART2	489531.5	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
580	ALL	UCART2	489556.1	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
581	ALL	UCART2	489580.8	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
582	ALL	UCART2	489605.4	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
583	ALL	UCART2	489630.1	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
584	ALL	UCART2	489654.7	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
585	ALL	UCART2	489679.4	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
586	ALL	UCART2	489704	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
587	ALL	UCART2	489728.7	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
588	ALL	UCART2	489753.3	3858871	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
589	ALL	UCART2	489260.3	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
590	ALL	UCART2	489285	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
591	ALL	UCART2	489309.6	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
592	ALL	UCART2	489334.3	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
593	ALL	UCART2	489358.9	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
594	ALL	UCART2	489383.6	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
595	ALL	UCART2	489408.2	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
596	ALL	UCART2	489432.9	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
597	ALL	UCART2	489457.5	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
598	ALL	UCART2	489482.2	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04

599	ALL	UCART2	489506.8	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
600	ALL	UCART2	489531.5	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
601	ALL	UCART2	489556.1	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
602	ALL	UCART2	489580.8	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
603	ALL	UCART2	489605.4	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
604	ALL	UCART2	489630.1	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
605	ALL	UCART2	489654.7	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
606	ALL	UCART2	489679.4	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
607	ALL	UCART2	489704	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
608	ALL	UCART2	489728.7	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
609	ALL	UCART2	489753.3	3858893	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
610	ALL	UCART2	489260.3	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04
611	ALL	UCART2	489285	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
612	ALL	UCART2	489309.6	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
613	ALL	UCART2	489334.3	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
614	ALL	UCART2	489358.9	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
615	ALL	UCART2	489383.6	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
616	ALL	UCART2	489408.2	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
617	ALL	UCART2	489432.9	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
618	ALL	UCART2	489457.5	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
619	ALL	UCART2	489482.2	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
620	ALL	UCART2	489506.8	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
621	ALL	UCART2	489531.5	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
622	ALL	UCART2	489556.1	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
623	ALL	UCART2	489580.8	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
624	ALL	UCART2	489605.4	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
625	ALL	UCART2	489630.1	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
626	ALL	UCART2	489654.7	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
627	ALL	UCART2	489679.4	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
628	ALL	UCART2	489704	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
629	ALL	UCART2	489728.7	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
630	ALL	UCART2	489753.3	3858915	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
631	ALL	UCART2	489260.3	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04
632	ALL	UCART2	489285	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
633	ALL	UCART2	489309.6	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
634	ALL	UCART2	489334.3	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
635	ALL	UCART2	489358.9	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
636	ALL	UCART2	489383.6	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
637	ALL	UCART2	489408.2	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
638	ALL	UCART2	489432.9	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
639	ALL	UCART2	489457.5	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
640	ALL	UCART2	489482.2	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
641	ALL	UCART2	489506.8	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
642	ALL	UCART2	489531.5	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
643	ALL	UCART2	489556.1	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
644	ALL	UCART2	489580.8	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
645	ALL	UCART2	489605.4	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
646	ALL	UCART2	489630.1	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
647	ALL	UCART2	489654.7	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
648	ALL	UCART2	489679.4	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04

649	ALL	UCART2	489704	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
650	ALL	UCART2	489728.7	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
651	ALL	UCART2	489753.3	3858936	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
652	ALL	UCART2	489260.3	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04
653	ALL	UCART2	489285	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
654	ALL	UCART2	489309.6	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
655	ALL	UCART2	489334.3	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
656	ALL	UCART2	489358.9	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
657	ALL	UCART2	489383.6	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
658	ALL	UCART2	489408.2	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
659	ALL	UCART2	489432.9	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
660	ALL	UCART2	489457.5	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
661	ALL	UCART2	489482.2	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
662	ALL	UCART2	489506.8	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
663	ALL	UCART2	489531.5	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
664	ALL	UCART2	489556.1	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
665	ALL	UCART2	489580.8	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
666	ALL	UCART2	489605.4	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
667	ALL	UCART2	489630.1	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
668	ALL	UCART2	489654.7	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
669	ALL	UCART2	489679.4	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
670	ALL	UCART2	489704	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
671	ALL	UCART2	489728.7	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
672	ALL	UCART2	489753.3	3858958	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
673	ALL	UCART2	489260.3	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04
674	ALL	UCART2	489285	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
675	ALL	UCART2	489309.6	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04
676	ALL	UCART2	489334.3	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
677	ALL	UCART2	489358.9	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
678	ALL	UCART2	489383.6	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
679	ALL	UCART2	489408.2	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
680	ALL	UCART2	489432.9	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
681	ALL	UCART2	489457.5	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
682	ALL	UCART2	489482.2	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
683	ALL	UCART2	489506.8	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
684	ALL	UCART2	489531.5	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
685	ALL	UCART2	489556.1	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
686	ALL	UCART2	489580.8	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
687	ALL	UCART2	489605.4	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
688	ALL	UCART2	489630.1	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
689	ALL	UCART2	489654.7	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
690	ALL	UCART2	489679.4	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
691	ALL	UCART2	489704	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
692	ALL	UCART2	489728.7	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
693	ALL	UCART2	489753.3	3858979	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
694	ALL	UCART2	489260.3	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04
695	ALL	UCART2	489285	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
696	ALL	UCART2	489309.6	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04
697	ALL	UCART2	489334.3	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
698	ALL	UCART2	489358.9	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04

699	ALL	UCART2	489383.6	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
700	ALL	UCART2	489408.2	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
701	ALL	UCART2	489432.9	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
702	ALL	UCART2	489457.5	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
703	ALL	UCART2	489482.2	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
704	ALL	UCART2	489506.8	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
705	ALL	UCART2	489531.5	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
706	ALL	UCART2	489556.1	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
707	ALL	UCART2	489580.8	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
708	ALL	UCART2	489605.4	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
709	ALL	UCART2	489630.1	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
710	ALL	UCART2	489654.7	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
711	ALL	UCART2	489679.4	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
712	ALL	UCART2	489704	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
713	ALL	UCART2	489728.7	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
714	ALL	UCART2	489753.3	3859001	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
715	ALL	UCART2	489260.3	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04
716	ALL	UCART2	489285	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
717	ALL	UCART2	489309.6	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04
718	ALL	UCART2	489334.3	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
719	ALL	UCART2	489358.9	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
720	ALL	UCART2	489383.6	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
721	ALL	UCART2	489408.2	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
722	ALL	UCART2	489432.9	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
723	ALL	UCART2	489457.5	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
724	ALL	UCART2	489482.2	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
725	ALL	UCART2	489506.8	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
726	ALL	UCART2	489531.5	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
727	ALL	UCART2	489556.1	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
728	ALL	UCART2	489580.8	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
729	ALL	UCART2	489605.4	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
730	ALL	UCART2	489630.1	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
731	ALL	UCART2	489654.7	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
732	ALL	UCART2	489679.4	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
733	ALL	UCART2	489704	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
734	ALL	UCART2	489728.7	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
735	ALL	UCART2	489753.3	3859022	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
736	ALL	UCART2	489260.3	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04
737	ALL	UCART2	489285	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
738	ALL	UCART2	489309.6	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04
739	ALL	UCART2	489334.3	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
740	ALL	UCART2	489358.9	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
741	ALL	UCART2	489383.6	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
742	ALL	UCART2	489408.2	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
743	ALL	UCART2	489432.9	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
744	ALL	UCART2	489457.5	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
745	ALL	UCART2	489482.2	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
746	ALL	UCART2	489506.8	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
747	ALL	UCART2	489531.5	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
748	ALL	UCART2	489556.1	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04

749	ALL	UCART2	489580.8	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
750	ALL	UCART2	489605.4	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
751	ALL	UCART2	489630.1	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
752	ALL	UCART2	489654.7	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
753	ALL	UCART2	489679.4	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
754	ALL	UCART2	489704	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
755	ALL	UCART2	489728.7	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
756	ALL	UCART2	489753.3	3859044	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
757	ALL	UCART2	489260.3	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04
758	ALL	UCART2	489285	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
759	ALL	UCART2	489309.6	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04
760	ALL	UCART2	489334.3	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
761	ALL	UCART2	489358.9	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
762	ALL	UCART2	489383.6	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
763	ALL	UCART2	489408.2	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
764	ALL	UCART2	489432.9	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
765	ALL	UCART2	489457.5	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
766	ALL	UCART2	489482.2	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
767	ALL	UCART2	489506.8	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
768	ALL	UCART2	489531.5	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
769	ALL	UCART2	489556.1	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
770	ALL	UCART2	489580.8	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
771	ALL	UCART2	489605.4	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
772	ALL	UCART2	489630.1	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
773	ALL	UCART2	489654.7	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
774	ALL	UCART2	489679.4	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
775	ALL	UCART2	489704	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
776	ALL	UCART2	489728.7	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
777	ALL	UCART2	489753.3	3859066	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
778	ALL	UCART2	489260.3	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04
779	ALL	UCART2	489285	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
780	ALL	UCART2	489309.6	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
781	ALL	UCART2	489334.3	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
782	ALL	UCART2	489358.9	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
783	ALL	UCART2	489383.6	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
784	ALL	UCART2	489408.2	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
785	ALL	UCART2	489432.9	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
786	ALL	UCART2	489457.5	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
787	ALL	UCART2	489482.2	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
788	ALL	UCART2	489506.8	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
789	ALL	UCART2	489531.5	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
790	ALL	UCART2	489556.1	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
791	ALL	UCART2	489580.8	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
792	ALL	UCART2	489605.4	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
793	ALL	UCART2	489630.1	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
794	ALL	UCART2	489654.7	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
795	ALL	UCART2	489679.4	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
796	ALL	UCART2	489704	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
797	ALL	UCART2	489728.7	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
798	ALL	UCART2	489753.3	3859087	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04

799	ALL	UCART2	489260.3	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
800	ALL	UCART2	489285	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04
801	ALL	UCART2	489309.6	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
802	ALL	UCART2	489334.3	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
803	ALL	UCART2	489358.9	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
804	ALL	UCART2	489383.6	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
805	ALL	UCART2	489408.2	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
806	ALL	UCART2	489432.9	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
807	ALL	UCART2	489457.5	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
808	ALL	UCART2	489482.2	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
809	ALL	UCART2	489506.8	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
810	ALL	UCART2	489531.5	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
811	ALL	UCART2	489556.1	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
812	ALL	UCART2	489580.8	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
813	ALL	UCART2	489605.4	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
814	ALL	UCART2	489630.1	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
815	ALL	UCART2	489654.7	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
816	ALL	UCART2	489679.4	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
817	ALL	UCART2	489704	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
818	ALL	UCART2	489728.7	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
819	ALL	UCART2	489753.3	3859109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
820	ALL	UCART2	489260.3	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
821	ALL	UCART2	489285	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
822	ALL	UCART2	489309.6	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
823	ALL	UCART2	489334.3	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
824	ALL	UCART2	489358.9	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
825	ALL	UCART2	489383.6	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
826	ALL	UCART2	489408.2	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
827	ALL	UCART2	489432.9	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
828	ALL	UCART2	489457.5	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
829	ALL	UCART2	489482.2	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
830	ALL	UCART2	489506.8	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
831	ALL	UCART2	489531.5	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
832	ALL	UCART2	489556.1	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
833	ALL	UCART2	489580.8	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
834	ALL	UCART2	489605.4	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
835	ALL	UCART2	489630.1	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
836	ALL	UCART2	489654.7	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
837	ALL	UCART2	489679.4	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
838	ALL	UCART2	489704	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
839	ALL	UCART2	489728.7	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
840	ALL	UCART2	489753.3	3859130	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
841	ALL	UCART2	489260.3	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04
842	ALL	UCART2	489285	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
843	ALL	UCART2	489309.6	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
844	ALL	UCART2	489334.3	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
845	ALL	UCART2	489358.9	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
846	ALL	UCART2	489383.6	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
847	ALL	UCART2	489408.2	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
848	ALL	UCART2	489432.9	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04

849	ALL	UCART2	489457.5	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
850	ALL	UCART2	489482.2	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
851	ALL	UCART2	489506.8	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
852	ALL	UCART2	489531.5	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
853	ALL	UCART2	489556.1	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
854	ALL	UCART2	489580.8	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
855	ALL	UCART2	489605.4	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
856	ALL	UCART2	489630.1	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
857	ALL	UCART2	489654.7	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
858	ALL	UCART2	489679.4	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
859	ALL	UCART2	489704	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
860	ALL	UCART2	489728.7	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
861	ALL	UCART2	489753.3	3859152	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
862	ALL	UCART2	489260.3	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
863	ALL	UCART2	489285	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04
864	ALL	UCART2	489309.6	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
865	ALL	UCART2	489334.3	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
866	ALL	UCART2	489358.9	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
867	ALL	UCART2	489383.6	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
868	ALL	UCART2	489408.2	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
869	ALL	UCART2	489432.9	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
870	ALL	UCART2	489457.5	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
871	ALL	UCART2	489482.2	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
872	ALL	UCART2	489506.8	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
873	ALL	UCART2	489531.5	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
874	ALL	UCART2	489556.1	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
875	ALL	UCART2	489580.8	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
876	ALL	UCART2	489605.4	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
877	ALL	UCART2	489630.1	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
878	ALL	UCART2	489654.7	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
879	ALL	UCART2	489679.4	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
880	ALL	UCART2	489704	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
881	ALL	UCART2	489728.7	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
882	ALL	UCART2	489753.3	3859173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
883	ALL	UCART3	488584.7	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
884	ALL	UCART3	488614.5	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
885	ALL	UCART3	488644.3	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
886	ALL	UCART3	488674.1	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
887	ALL	UCART3	488703.9	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
888	ALL	UCART3	488733.8	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05
889	ALL	UCART3	488763.6	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
890	ALL	UCART3	488793.4	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
891	ALL	UCART3	488823.2	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05
892	ALL	UCART3	488853	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
893	ALL	UCART3	488882.9	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
894	ALL	UCART3	488912.7	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05
895	ALL	UCART3	488942.5	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05
896	ALL	UCART3	488972.3	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05
897	ALL	UCART3	489002.1	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
898	ALL	UCART3	489032	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05

899	ALL	UCART3	489061.8	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05
900	ALL	UCART3	489091.6	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05
901	ALL	UCART3	489121.4	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05
902	ALL	UCART3	489151.2	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05
903	ALL	UCART3	489181.1	3858406	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-05
904	ALL	UCART3	488584.7	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
905	ALL	UCART3	488614.5	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
906	ALL	UCART3	488644.3	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
907	ALL	UCART3	488674.1	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
908	ALL	UCART3	488703.9	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
909	ALL	UCART3	488733.8	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
910	ALL	UCART3	488763.6	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
911	ALL	UCART3	488793.4	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
912	ALL	UCART3	488823.2	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
913	ALL	UCART3	488853	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
914	ALL	UCART3	488882.9	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
915	ALL	UCART3	488912.7	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
916	ALL	UCART3	488942.5	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05
917	ALL	UCART3	488972.3	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05
918	ALL	UCART3	489002.1	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05
919	ALL	UCART3	489032	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05
920	ALL	UCART3	489061.8	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05
921	ALL	UCART3	489091.6	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05
922	ALL	UCART3	489121.4	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05
923	ALL	UCART3	489151.2	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05
924	ALL	UCART3	489181.1	3858431	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05
925	ALL	UCART3	488584.7	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
926	ALL	UCART3	488614.5	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
927	ALL	UCART3	488644.3	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
928	ALL	UCART3	488674.1	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
929	ALL	UCART3	488703.9	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
930	ALL	UCART3	488733.8	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
931	ALL	UCART3	488763.6	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
932	ALL	UCART3	488793.4	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
933	ALL	UCART3	488823.2	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
934	ALL	UCART3	488853	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05
935	ALL	UCART3	488882.9	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
936	ALL	UCART3	488912.7	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05
937	ALL	UCART3	488942.5	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05
938	ALL	UCART3	488972.3	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
939	ALL	UCART3	489002.1	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-05
940	ALL	UCART3	489032	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05
941	ALL	UCART3	489061.8	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05
942	ALL	UCART3	489091.6	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05
943	ALL	UCART3	489121.4	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05
944	ALL	UCART3	489151.2	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-05
945	ALL	UCART3	489181.1	3858456	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
946	ALL	UCART3	488584.7	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
947	ALL	UCART3	488614.5	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
948	ALL	UCART3	488644.3	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05

949	ALL	UCART3	488674.1	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
950	ALL	UCART3	488703.9	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
951	ALL	UCART3	488733.8	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
952	ALL	UCART3	488763.6	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
953	ALL	UCART3	488793.4	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
954	ALL	UCART3	488823.2	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
955	ALL	UCART3	488853	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05
956	ALL	UCART3	488882.9	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
957	ALL	UCART3	488912.7	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05
958	ALL	UCART3	488942.5	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05
959	ALL	UCART3	488972.3	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05
960	ALL	UCART3	489002.1	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05
961	ALL	UCART3	489032	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05
962	ALL	UCART3	489061.8	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05
963	ALL	UCART3	489091.6	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-05
964	ALL	UCART3	489121.4	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05
965	ALL	UCART3	489151.2	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
966	ALL	UCART3	489181.1	3858481	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
967	ALL	UCART3	488584.7	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
968	ALL	UCART3	488614.5	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
969	ALL	UCART3	488644.3	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
970	ALL	UCART3	488674.1	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
971	ALL	UCART3	488703.9	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
972	ALL	UCART3	488733.8	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
973	ALL	UCART3	488763.6	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
974	ALL	UCART3	488793.4	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
975	ALL	UCART3	488823.2	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
976	ALL	UCART3	488853	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05
977	ALL	UCART3	488882.9	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05
978	ALL	UCART3	488912.7	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
979	ALL	UCART3	488942.5	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05
980	ALL	UCART3	488972.3	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05
981	ALL	UCART3	489002.1	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05
982	ALL	UCART3	489032	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05
983	ALL	UCART3	489061.8	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05
984	ALL	UCART3	489091.6	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-05
985	ALL	UCART3	489121.4	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05
986	ALL	UCART3	489151.2	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
987	ALL	UCART3	489181.1	3858506	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
988	ALL	UCART3	488584.7	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
989	ALL	UCART3	488614.5	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05
990	ALL	UCART3	488644.3	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
991	ALL	UCART3	488674.1	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
992	ALL	UCART3	488703.9	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
993	ALL	UCART3	488733.8	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
994	ALL	UCART3	488763.6	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
995	ALL	UCART3	488793.4	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
996	ALL	UCART3	488823.2	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
997	ALL	UCART3	488853	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05
998	ALL	UCART3	488882.9	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05

999	ALL	UCART3	488912.7	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05
1000	ALL	UCART3	488942.5	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05
1001	ALL	UCART3	488972.3	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05
1002	ALL	UCART3	489002.1	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-05
1003	ALL	UCART3	489032	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05
1004	ALL	UCART3	489061.8	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05
1005	ALL	UCART3	489091.6	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05
1006	ALL	UCART3	489121.4	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1007	ALL	UCART3	489151.2	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1008	ALL	UCART3	489181.1	3858531	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1009	ALL	UCART3	488584.7	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
1010	ALL	UCART3	488614.5	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
1011	ALL	UCART3	488644.3	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05
1012	ALL	UCART3	488674.1	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
1013	ALL	UCART3	488703.9	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
1014	ALL	UCART3	488733.8	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
1015	ALL	UCART3	488763.6	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
1016	ALL	UCART3	488793.4	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
1017	ALL	UCART3	488823.2	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05
1018	ALL	UCART3	488853	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
1019	ALL	UCART3	488882.9	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05
1020	ALL	UCART3	488912.7	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05
1021	ALL	UCART3	488942.5	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-05
1022	ALL	UCART3	488972.3	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05
1023	ALL	UCART3	489002.1	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05
1024	ALL	UCART3	489032	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-05
1025	ALL	UCART3	489061.8	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05
1026	ALL	UCART3	489091.6	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05
1027	ALL	UCART3	489121.4	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1028	ALL	UCART3	489151.2	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1029	ALL	UCART3	489181.1	3858556	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
1030	ALL	UCART3	488584.7	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
1031	ALL	UCART3	488614.5	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05
1032	ALL	UCART3	488644.3	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
1033	ALL	UCART3	488674.1	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
1034	ALL	UCART3	488703.9	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05
1035	ALL	UCART3	488733.8	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05
1036	ALL	UCART3	488763.6	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
1037	ALL	UCART3	488793.4	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05
1038	ALL	UCART3	488823.2	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05
1039	ALL	UCART3	488853	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05
1040	ALL	UCART3	488882.9	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
1041	ALL	UCART3	488912.7	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05
1042	ALL	UCART3	488942.5	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-05
1043	ALL	UCART3	488972.3	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05
1044	ALL	UCART3	489002.1	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05
1045	ALL	UCART3	489032	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05
1046	ALL	UCART3	489061.8	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05
1047	ALL	UCART3	489091.6	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
1048	ALL	UCART3	489121.4	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04

1049	ALL	UCART3	489151.2	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
1050	ALL	UCART3	489181.1	3858581	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1051	ALL	UCART3	488584.7	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
1052	ALL	UCART3	488614.5	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
1053	ALL	UCART3	488644.3	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
1054	ALL	UCART3	488674.1	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
1055	ALL	UCART3	488703.9	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
1056	ALL	UCART3	488733.8	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
1057	ALL	UCART3	488763.6	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
1058	ALL	UCART3	488793.4	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05
1059	ALL	UCART3	488823.2	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05
1060	ALL	UCART3	488853	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05
1061	ALL	UCART3	488882.9	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
1062	ALL	UCART3	488912.7	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
1063	ALL	UCART3	488942.5	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05
1064	ALL	UCART3	488972.3	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05
1065	ALL	UCART3	489002.1	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
1066	ALL	UCART3	489032	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
1067	ALL	UCART3	489061.8	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05
1068	ALL	UCART3	489091.6	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1069	ALL	UCART3	489121.4	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
1070	ALL	UCART3	489151.2	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1071	ALL	UCART3	489181.1	3858606	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
1072	ALL	UCART3	488584.7	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
1073	ALL	UCART3	488614.5	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
1074	ALL	UCART3	488644.3	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
1075	ALL	UCART3	488674.1	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
1076	ALL	UCART3	488703.9	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
1077	ALL	UCART3	488733.8	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05
1078	ALL	UCART3	488763.6	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05
1079	ALL	UCART3	488793.4	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05
1080	ALL	UCART3	488823.2	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
1081	ALL	UCART3	488853	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-05
1082	ALL	UCART3	488882.9	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05
1083	ALL	UCART3	488912.7	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05
1084	ALL	UCART3	488942.5	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05
1085	ALL	UCART3	488972.3	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05
1086	ALL	UCART3	489002.1	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05
1087	ALL	UCART3	489032	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-05
1088	ALL	UCART3	489061.8	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05
1089	ALL	UCART3	489091.6	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1090	ALL	UCART3	489121.4	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1091	ALL	UCART3	489151.2	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
1092	ALL	UCART3	489181.1	3858631	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1093	ALL	UCART3	488584.7	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
1094	ALL	UCART3	488614.5	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
1095	ALL	UCART3	488644.3	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
1096	ALL	UCART3	488674.1	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
1097	ALL	UCART3	488703.9	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
1098	ALL	UCART3	488733.8	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05

1099	ALL	UCART3	488763.6	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05
1100	ALL	UCART3	488793.4	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05
1101	ALL	UCART3	488823.2	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05
1102	ALL	UCART3	488853	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05
1103	ALL	UCART3	488882.9	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05
1104	ALL	UCART3	488912.7	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05
1105	ALL	UCART3	488942.5	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-05
1106	ALL	UCART3	488972.3	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05
1107	ALL	UCART3	489002.1	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-05
1108	ALL	UCART3	489032	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05
1109	ALL	UCART3	489061.8	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05
1110	ALL	UCART3	489091.6	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1111	ALL	UCART3	489121.4	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1112	ALL	UCART3	489151.2	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
1113	ALL	UCART3	489181.1	3858656	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
1114	ALL	UCART3	488584.7	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
1115	ALL	UCART3	488614.5	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
1116	ALL	UCART3	488644.3	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
1117	ALL	UCART3	488674.1	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
1118	ALL	UCART3	488703.9	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
1119	ALL	UCART3	488733.8	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05
1120	ALL	UCART3	488763.6	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05
1121	ALL	UCART3	488793.4	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05
1122	ALL	UCART3	488823.2	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
1123	ALL	UCART3	488853	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
1124	ALL	UCART3	488882.9	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05
1125	ALL	UCART3	488912.7	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-05
1126	ALL	UCART3	488942.5	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05
1127	ALL	UCART3	488972.3	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05
1128	ALL	UCART3	489002.1	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05
1129	ALL	UCART3	489032	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-05
1130	ALL	UCART3	489061.8	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05
1131	ALL	UCART3	489091.6	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
1132	ALL	UCART3	489121.4	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1133	ALL	UCART3	489151.2	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
1134	ALL	UCART3	489181.1	3858681	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
1135	ALL	UCART3	488584.7	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05
1136	ALL	UCART3	488614.5	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
1137	ALL	UCART3	488644.3	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
1138	ALL	UCART3	488674.1	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
1139	ALL	UCART3	488703.9	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05
1140	ALL	UCART3	488733.8	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05
1141	ALL	UCART3	488763.6	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05
1142	ALL	UCART3	488793.4	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
1143	ALL	UCART3	488823.2	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
1144	ALL	UCART3	488853	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
1145	ALL	UCART3	488882.9	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05
1146	ALL	UCART3	488912.7	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05
1147	ALL	UCART3	488942.5	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05
1148	ALL	UCART3	488972.3	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05

1149	ALL	UCART3	489002.1	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05
1150	ALL	UCART3	489032	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05
1151	ALL	UCART3	489061.8	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1152	ALL	UCART3	489091.6	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1153	ALL	UCART3	489121.4	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1154	ALL	UCART3	489151.2	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
1155	ALL	UCART3	489181.1	3858706	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
1156	ALL	UCART3	488584.7	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
1157	ALL	UCART3	488614.5	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
1158	ALL	UCART3	488644.3	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
1159	ALL	UCART3	488674.1	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
1160	ALL	UCART3	488703.9	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
1161	ALL	UCART3	488733.8	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
1162	ALL	UCART3	488763.6	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
1163	ALL	UCART3	488793.4	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05
1164	ALL	UCART3	488823.2	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05
1165	ALL	UCART3	488853	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05
1166	ALL	UCART3	488882.9	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05
1167	ALL	UCART3	488912.7	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05
1168	ALL	UCART3	488942.5	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05
1169	ALL	UCART3	488972.3	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05
1170	ALL	UCART3	489002.1	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05
1171	ALL	UCART3	489032	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-05
1172	ALL	UCART3	489061.8	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1173	ALL	UCART3	489091.6	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
1174	ALL	UCART3	489121.4	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
1175	ALL	UCART3	489151.2	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
1176	ALL	UCART3	489181.1	3858730	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
1177	ALL	UCART3	488584.7	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
1178	ALL	UCART3	488614.5	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
1179	ALL	UCART3	488644.3	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
1180	ALL	UCART3	488674.1	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05
1181	ALL	UCART3	488703.9	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
1182	ALL	UCART3	488733.8	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05
1183	ALL	UCART3	488763.6	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
1184	ALL	UCART3	488793.4	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
1185	ALL	UCART3	488823.2	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05
1186	ALL	UCART3	488853	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05
1187	ALL	UCART3	488882.9	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
1188	ALL	UCART3	488912.7	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-05
1189	ALL	UCART3	488942.5	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05
1190	ALL	UCART3	488972.3	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05
1191	ALL	UCART3	489002.1	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
1192	ALL	UCART3	489032	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05
1193	ALL	UCART3	489061.8	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
1194	ALL	UCART3	489091.6	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
1195	ALL	UCART3	489121.4	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
1196	ALL	UCART3	489151.2	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
1197	ALL	UCART3	489181.1	3858755	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
1198	ALL	UCART3	488584.7	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05

1199	ALL	UCART3	488614.5	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
1200	ALL	UCART3	488644.3	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
1201	ALL	UCART3	488674.1	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
1202	ALL	UCART3	488703.9	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
1203	ALL	UCART3	488733.8	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
1204	ALL	UCART3	488763.6	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05
1205	ALL	UCART3	488793.4	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
1206	ALL	UCART3	488823.2	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05
1207	ALL	UCART3	488853	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
1208	ALL	UCART3	488882.9	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-05
1209	ALL	UCART3	488912.7	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05
1210	ALL	UCART3	488942.5	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05
1211	ALL	UCART3	488972.3	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05
1212	ALL	UCART3	489002.1	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05
1213	ALL	UCART3	489032	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-05
1214	ALL	UCART3	489061.8	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1215	ALL	UCART3	489091.6	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1216	ALL	UCART3	489121.4	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1217	ALL	UCART3	489151.2	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
1218	ALL	UCART3	489181.1	3858780	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
1219	ALL	UCART3	488584.7	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
1220	ALL	UCART3	488614.5	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
1221	ALL	UCART3	488644.3	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05
1222	ALL	UCART3	488674.1	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
1223	ALL	UCART3	488703.9	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05
1224	ALL	UCART3	488733.8	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05
1225	ALL	UCART3	488763.6	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05
1226	ALL	UCART3	488793.4	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05
1227	ALL	UCART3	488823.2	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
1228	ALL	UCART3	488853	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
1229	ALL	UCART3	488882.9	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-05
1230	ALL	UCART3	488912.7	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05
1231	ALL	UCART3	488942.5	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05
1232	ALL	UCART3	488972.3	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
1233	ALL	UCART3	489002.1	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-05
1234	ALL	UCART3	489032	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05
1235	ALL	UCART3	489061.8	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1236	ALL	UCART3	489091.6	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1237	ALL	UCART3	489121.4	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
1238	ALL	UCART3	489151.2	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1239	ALL	UCART3	489181.1	3858805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
1240	ALL	UCART3	488584.7	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
1241	ALL	UCART3	488614.5	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
1242	ALL	UCART3	488644.3	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
1243	ALL	UCART3	488674.1	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
1244	ALL	UCART3	488703.9	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05
1245	ALL	UCART3	488733.8	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
1246	ALL	UCART3	488763.6	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05
1247	ALL	UCART3	488793.4	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
1248	ALL	UCART3	488823.2	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05

1249	ALL	UCART3	488853	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05
1250	ALL	UCART3	488882.9	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05
1251	ALL	UCART3	488912.7	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05
1252	ALL	UCART3	488942.5	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05
1253	ALL	UCART3	488972.3	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
1254	ALL	UCART3	489002.1	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-05
1255	ALL	UCART3	489032	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05
1256	ALL	UCART3	489061.8	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1257	ALL	UCART3	489091.6	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1258	ALL	UCART3	489121.4	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1259	ALL	UCART3	489151.2	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1260	ALL	UCART3	489181.1	3858830	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
1261	ALL	UCART3	488584.7	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
1262	ALL	UCART3	488614.5	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05
1263	ALL	UCART3	488644.3	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
1264	ALL	UCART3	488674.1	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-05
1265	ALL	UCART3	488703.9	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
1266	ALL	UCART3	488733.8	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
1267	ALL	UCART3	488763.6	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05
1268	ALL	UCART3	488793.4	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
1269	ALL	UCART3	488823.2	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05
1270	ALL	UCART3	488853	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05
1271	ALL	UCART3	488882.9	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05
1272	ALL	UCART3	488912.7	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05
1273	ALL	UCART3	488942.5	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05
1274	ALL	UCART3	488972.3	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05
1275	ALL	UCART3	489002.1	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-05
1276	ALL	UCART3	489032	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05
1277	ALL	UCART3	489061.8	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1278	ALL	UCART3	489091.6	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1279	ALL	UCART3	489121.4	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1280	ALL	UCART3	489151.2	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
1281	ALL	UCART3	489181.1	3858855	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
1282	ALL	UCART3	488584.7	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
1283	ALL	UCART3	488614.5	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05
1284	ALL	UCART3	488644.3	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05
1285	ALL	UCART3	488674.1	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
1286	ALL	UCART3	488703.9	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
1287	ALL	UCART3	488733.8	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05
1288	ALL	UCART3	488763.6	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
1289	ALL	UCART3	488793.4	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05
1290	ALL	UCART3	488823.2	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05
1291	ALL	UCART3	488853	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05
1292	ALL	UCART3	488882.9	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05
1293	ALL	UCART3	488912.7	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05
1294	ALL	UCART3	488942.5	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-05
1295	ALL	UCART3	488972.3	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05
1296	ALL	UCART3	489002.1	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05
1297	ALL	UCART3	489032	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-05
1298	ALL	UCART3	489061.8	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04

1299	ALL	UCART3	489091.6	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
1300	ALL	UCART3	489121.4	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1301	ALL	UCART3	489151.2	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1302	ALL	UCART3	489181.1	3858880	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
1303	ALL	UCART3	488584.7	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
1304	ALL	UCART3	488614.5	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
1305	ALL	UCART3	488644.3	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
1306	ALL	UCART3	488674.1	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05
1307	ALL	UCART3	488703.9	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05
1308	ALL	UCART3	488733.8	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05
1309	ALL	UCART3	488763.6	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
1310	ALL	UCART3	488793.4	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
1311	ALL	UCART3	488823.2	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05
1312	ALL	UCART3	488853	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-05
1313	ALL	UCART3	488882.9	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05
1314	ALL	UCART3	488912.7	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05
1315	ALL	UCART3	488942.5	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05
1316	ALL	UCART3	488972.3	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05
1317	ALL	UCART3	489002.1	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05
1318	ALL	UCART3	489032	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-05
1319	ALL	UCART3	489061.8	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1320	ALL	UCART3	489091.6	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1321	ALL	UCART3	489121.4	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1322	ALL	UCART3	489151.2	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
1323	ALL	UCART3	489181.1	3858905	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
1324	ALL	UCART4	489386.1	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04
1325	ALL	UCART4	489460.6	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04
1326	ALL	UCART4	489535.1	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04
1327	ALL	UCART4	489609.7	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-04
1328	ALL	UCART4	489684.2	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04
1329	ALL	UCART4	489758.7	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04
1330	ALL	UCART4	489833.2	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04
1331	ALL	UCART4	489907.7	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04
1332	ALL	UCART4	489982.3	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-04
1333	ALL	UCART4	490056.8	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04
1334	ALL	UCART4	490131.3	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04
1335	ALL	UCART4	490205.8	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-04
1336	ALL	UCART4	490280.3	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-04
1337	ALL	UCART4	490354.9	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04
1338	ALL	UCART4	490429.4	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04
1339	ALL	UCART4	490503.9	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-04
1340	ALL	UCART4	490578.4	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04
1341	ALL	UCART4	490652.9	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-04
1342	ALL	UCART4	490727.5	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-04
1343	ALL	UCART4	490802	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-04
1344	ALL	UCART4	490876.5	3861173	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-04
1345	ALL	UCART4	489386.1	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04
1346	ALL	UCART4	489460.6	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04
1347	ALL	UCART4	489535.1	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04
1348	ALL	UCART4	489609.7	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04

1349	ALL	UCART4	489684.2	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04
1350	ALL	UCART4	489758.7	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04
1351	ALL	UCART4	489833.2	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
1352	ALL	UCART4	489907.7	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04
1353	ALL	UCART4	489982.3	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04
1354	ALL	UCART4	490056.8	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04
1355	ALL	UCART4	490131.3	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04
1356	ALL	UCART4	490205.8	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04
1357	ALL	UCART4	490280.3	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-04
1358	ALL	UCART4	490354.9	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04
1359	ALL	UCART4	490429.4	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
1360	ALL	UCART4	490503.9	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
1361	ALL	UCART4	490578.4	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
1362	ALL	UCART4	490652.9	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04
1363	ALL	UCART4	490727.5	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04
1364	ALL	UCART4	490802	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04
1365	ALL	UCART4	490876.5	3861198	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04
1366	ALL	UCART4	489386.1	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
1367	ALL	UCART4	489460.6	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04
1368	ALL	UCART4	489535.1	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
1369	ALL	UCART4	489609.7	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04
1370	ALL	UCART4	489684.2	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04
1371	ALL	UCART4	489758.7	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
1372	ALL	UCART4	489833.2	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
1373	ALL	UCART4	489907.7	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
1374	ALL	UCART4	489982.3	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04
1375	ALL	UCART4	490056.8	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
1376	ALL	UCART4	490131.3	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04
1377	ALL	UCART4	490205.8	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04
1378	ALL	UCART4	490280.3	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04
1379	ALL	UCART4	490354.9	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
1380	ALL	UCART4	490429.4	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
1381	ALL	UCART4	490503.9	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04
1382	ALL	UCART4	490578.4	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
1383	ALL	UCART4	490652.9	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
1384	ALL	UCART4	490727.5	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
1385	ALL	UCART4	490802	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04
1386	ALL	UCART4	490876.5	3861223	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04
1387	ALL	UCART4	489386.1	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1388	ALL	UCART4	489460.6	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
1389	ALL	UCART4	489535.1	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
1390	ALL	UCART4	489609.7	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
1391	ALL	UCART4	489684.2	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
1392	ALL	UCART4	489758.7	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
1393	ALL	UCART4	489833.2	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
1394	ALL	UCART4	489907.7	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
1395	ALL	UCART4	489982.3	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
1396	ALL	UCART4	490056.8	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
1397	ALL	UCART4	490131.3	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
1398	ALL	UCART4	490205.8	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04

1399	ALL	UCART4	490280.3	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
1400	ALL	UCART4	490354.9	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
1401	ALL	UCART4	490429.4	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
1402	ALL	UCART4	490503.9	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
1403	ALL	UCART4	490578.4	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
1404	ALL	UCART4	490652.9	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
1405	ALL	UCART4	490727.5	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
1406	ALL	UCART4	490802	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
1407	ALL	UCART4	490876.5	3861248	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
1408	ALL	UCART4	489386.1	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
1409	ALL	UCART4	489460.6	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
1410	ALL	UCART4	489535.1	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
1411	ALL	UCART4	489609.7	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
1412	ALL	UCART4	489684.2	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
1413	ALL	UCART4	489758.7	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
1414	ALL	UCART4	489833.2	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
1415	ALL	UCART4	489907.7	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
1416	ALL	UCART4	489982.3	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
1417	ALL	UCART4	490056.8	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
1418	ALL	UCART4	490131.3	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
1419	ALL	UCART4	490205.8	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
1420	ALL	UCART4	490280.3	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
1421	ALL	UCART4	490354.9	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1422	ALL	UCART4	490429.4	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
1423	ALL	UCART4	490503.9	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1424	ALL	UCART4	490578.4	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
1425	ALL	UCART4	490652.9	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
1426	ALL	UCART4	490727.5	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
1427	ALL	UCART4	490802	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
1428	ALL	UCART4	490876.5	3861274	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
1429	ALL	UCART4	489386.1	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1430	ALL	UCART4	489460.6	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
1431	ALL	UCART4	489535.1	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
1432	ALL	UCART4	489609.7	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
1433	ALL	UCART4	489684.2	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
1434	ALL	UCART4	489758.7	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
1435	ALL	UCART4	489833.2	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
1436	ALL	UCART4	489907.7	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
1437	ALL	UCART4	489982.3	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
1438	ALL	UCART4	490056.8	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
1439	ALL	UCART4	490131.3	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1440	ALL	UCART4	490205.8	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
1441	ALL	UCART4	490280.3	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1442	ALL	UCART4	490354.9	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1443	ALL	UCART4	490429.4	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1444	ALL	UCART4	490503.9	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1445	ALL	UCART4	490578.4	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1446	ALL	UCART4	490652.9	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
1447	ALL	UCART4	490727.5	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
1448	ALL	UCART4	490802	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04

1449	ALL	UCART4	490876.5	3861299	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
1450	ALL	UCART4	489386.1	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
1451	ALL	UCART4	489460.6	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1452	ALL	UCART4	489535.1	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
1453	ALL	UCART4	489609.7	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
1454	ALL	UCART4	489684.2	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
1455	ALL	UCART4	489758.7	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
1456	ALL	UCART4	489833.2	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
1457	ALL	UCART4	489907.7	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
1458	ALL	UCART4	489982.3	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
1459	ALL	UCART4	490056.8	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
1460	ALL	UCART4	490131.3	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
1461	ALL	UCART4	490205.8	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
1462	ALL	UCART4	490280.3	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
1463	ALL	UCART4	490354.9	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
1464	ALL	UCART4	490429.4	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
1465	ALL	UCART4	490503.9	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
1466	ALL	UCART4	490578.4	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
1467	ALL	UCART4	490652.9	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
1468	ALL	UCART4	490727.5	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
1469	ALL	UCART4	490802	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
1470	ALL	UCART4	490876.5	3861324	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
1471	ALL	UCART4	489386.1	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
1472	ALL	UCART4	489460.6	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
1473	ALL	UCART4	489535.1	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
1474	ALL	UCART4	489609.7	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
1475	ALL	UCART4	489684.2	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
1476	ALL	UCART4	489758.7	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
1477	ALL	UCART4	489833.2	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
1478	ALL	UCART4	489907.7	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
1479	ALL	UCART4	489982.3	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
1480	ALL	UCART4	490056.8	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
1481	ALL	UCART4	490131.3	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
1482	ALL	UCART4	490205.8	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
1483	ALL	UCART4	490280.3	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
1484	ALL	UCART4	490354.9	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
1485	ALL	UCART4	490429.4	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
1486	ALL	UCART4	490503.9	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
1487	ALL	UCART4	490578.4	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
1488	ALL	UCART4	490652.9	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
1489	ALL	UCART4	490727.5	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
1490	ALL	UCART4	490802	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
1491	ALL	UCART4	490876.5	3861349	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
1492	ALL	UCART4	489386.1	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1493	ALL	UCART4	489460.6	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1494	ALL	UCART4	489535.1	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1495	ALL	UCART4	489609.7	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
1496	ALL	UCART4	489684.2	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
1497	ALL	UCART4	489758.7	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
1498	ALL	UCART4	489833.2	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04

1499	ALL	UCART4	489907.7	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
1500	ALL	UCART4	489982.3	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
1501	ALL	UCART4	490056.8	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1502	ALL	UCART4	490131.3	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
1503	ALL	UCART4	490205.8	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
1504	ALL	UCART4	490280.3	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
1505	ALL	UCART4	490354.9	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
1506	ALL	UCART4	490429.4	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
1507	ALL	UCART4	490503.9	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
1508	ALL	UCART4	490578.4	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
1509	ALL	UCART4	490652.9	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
1510	ALL	UCART4	490727.5	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
1511	ALL	UCART4	490802	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
1512	ALL	UCART4	490876.5	3861374	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
1513	ALL	UCART4	489386.1	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1514	ALL	UCART4	489460.6	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1515	ALL	UCART4	489535.1	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1516	ALL	UCART4	489609.7	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1517	ALL	UCART4	489684.2	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
1518	ALL	UCART4	489758.7	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1519	ALL	UCART4	489833.2	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1520	ALL	UCART4	489907.7	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1521	ALL	UCART4	489982.3	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
1522	ALL	UCART4	490056.8	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
1523	ALL	UCART4	490131.3	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
1524	ALL	UCART4	490205.8	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
1525	ALL	UCART4	490280.3	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
1526	ALL	UCART4	490354.9	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
1527	ALL	UCART4	490429.4	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1528	ALL	UCART4	490503.9	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1529	ALL	UCART4	490578.4	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1530	ALL	UCART4	490652.9	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1531	ALL	UCART4	490727.5	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1532	ALL	UCART4	490802	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1533	ALL	UCART4	490876.5	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
1534	ALL	UCART4	489386.1	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1535	ALL	UCART4	489460.6	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
1536	ALL	UCART4	489535.1	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
1537	ALL	UCART4	489609.7	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
1538	ALL	UCART4	489684.2	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
1539	ALL	UCART4	489758.7	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1540	ALL	UCART4	489833.2	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
1541	ALL	UCART4	489907.7	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
1542	ALL	UCART4	489982.3	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
1543	ALL	UCART4	490056.8	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1544	ALL	UCART4	490131.3	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
1545	ALL	UCART4	490205.8	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
1546	ALL	UCART4	490280.3	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1547	ALL	UCART4	490354.9	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1548	ALL	UCART4	490429.4	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04

1549	ALL	UCART4	490503.9	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1550	ALL	UCART4	490578.4	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1551	ALL	UCART4	490652.9	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1552	ALL	UCART4	490727.5	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1553	ALL	UCART4	490802	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1554	ALL	UCART4	490876.5	3861424	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1555	ALL	UCART4	489386.1	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
1556	ALL	UCART4	489460.6	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1557	ALL	UCART4	489535.1	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1558	ALL	UCART4	489609.7	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1559	ALL	UCART4	489684.2	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1560	ALL	UCART4	489758.7	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1561	ALL	UCART4	489833.2	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1562	ALL	UCART4	489907.7	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1563	ALL	UCART4	489982.3	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1564	ALL	UCART4	490056.8	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1565	ALL	UCART4	490131.3	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1566	ALL	UCART4	490205.8	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
1567	ALL	UCART4	490280.3	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
1568	ALL	UCART4	490354.9	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
1569	ALL	UCART4	490429.4	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
1570	ALL	UCART4	490503.9	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
1571	ALL	UCART4	490578.4	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
1572	ALL	UCART4	490652.9	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
1573	ALL	UCART4	490727.5	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
1574	ALL	UCART4	490802	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
1575	ALL	UCART4	490876.5	3861450	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
1576	ALL	UCART4	489386.1	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1577	ALL	UCART4	489460.6	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1578	ALL	UCART4	489535.1	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1579	ALL	UCART4	489609.7	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1580	ALL	UCART4	489684.2	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1581	ALL	UCART4	489758.7	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1582	ALL	UCART4	489833.2	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
1583	ALL	UCART4	489907.7	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1584	ALL	UCART4	489982.3	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1585	ALL	UCART4	490056.8	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1586	ALL	UCART4	490131.3	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1587	ALL	UCART4	490205.8	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1588	ALL	UCART4	490280.3	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
1589	ALL	UCART4	490354.9	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
1590	ALL	UCART4	490429.4	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
1591	ALL	UCART4	490503.9	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
1592	ALL	UCART4	490578.4	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1593	ALL	UCART4	490652.9	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1594	ALL	UCART4	490727.5	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1595	ALL	UCART4	490802	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1596	ALL	UCART4	490876.5	3861475	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1597	ALL	UCART4	489386.1	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1598	ALL	UCART4	489460.6	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04

1599	ALL	UCART4	489535.1	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1600	ALL	UCART4	489609.7	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1601	ALL	UCART4	489684.2	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1602	ALL	UCART4	489758.7	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1603	ALL	UCART4	489833.2	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1604	ALL	UCART4	489907.7	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1605	ALL	UCART4	489982.3	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1606	ALL	UCART4	490056.8	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1607	ALL	UCART4	490131.3	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
1608	ALL	UCART4	490205.8	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
1609	ALL	UCART4	490280.3	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1610	ALL	UCART4	490354.9	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1611	ALL	UCART4	490429.4	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1612	ALL	UCART4	490503.9	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1613	ALL	UCART4	490578.4	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1614	ALL	UCART4	490652.9	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1615	ALL	UCART4	490727.5	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1616	ALL	UCART4	490802	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1617	ALL	UCART4	490876.5	3861500	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1618	ALL	UCART4	489386.1	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
1619	ALL	UCART4	489460.6	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1620	ALL	UCART4	489535.1	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1621	ALL	UCART4	489609.7	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1622	ALL	UCART4	489684.2	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1623	ALL	UCART4	489758.7	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1624	ALL	UCART4	489833.2	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1625	ALL	UCART4	489907.7	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1626	ALL	UCART4	489982.3	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1627	ALL	UCART4	490056.8	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1628	ALL	UCART4	490131.3	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
1629	ALL	UCART4	490205.8	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1630	ALL	UCART4	490280.3	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
1631	ALL	UCART4	490354.9	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1632	ALL	UCART4	490429.4	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1633	ALL	UCART4	490503.9	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1634	ALL	UCART4	490578.4	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1635	ALL	UCART4	490652.9	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1636	ALL	UCART4	490727.5	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1637	ALL	UCART4	490802	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1638	ALL	UCART4	490876.5	3861525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1639	ALL	UCART4	489386.1	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1640	ALL	UCART4	489460.6	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05
1641	ALL	UCART4	489535.1	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05
1642	ALL	UCART4	489609.7	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05
1643	ALL	UCART4	489684.2	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05
1644	ALL	UCART4	489758.7	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05
1645	ALL	UCART4	489833.2	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
1646	ALL	UCART4	489907.7	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1647	ALL	UCART4	489982.3	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1648	ALL	UCART4	490056.8	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04

1649	ALL	UCART4	490131.3	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1650	ALL	UCART4	490205.8	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1651	ALL	UCART4	490280.3	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1652	ALL	UCART4	490354.9	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1653	ALL	UCART4	490429.4	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1654	ALL	UCART4	490503.9	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1655	ALL	UCART4	490578.4	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1656	ALL	UCART4	490652.9	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1657	ALL	UCART4	490727.5	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1658	ALL	UCART4	490802	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
1659	ALL	UCART4	490876.5	3861550	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1660	ALL	UCART4	489386.1	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-05
1661	ALL	UCART4	489460.6	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05
1662	ALL	UCART4	489535.1	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05
1663	ALL	UCART4	489609.7	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05
1664	ALL	UCART4	489684.2	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05
1665	ALL	UCART4	489758.7	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05
1666	ALL	UCART4	489833.2	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05
1667	ALL	UCART4	489907.7	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05
1668	ALL	UCART4	489982.3	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05
1669	ALL	UCART4	490056.8	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-05
1670	ALL	UCART4	490131.3	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05
1671	ALL	UCART4	490205.8	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1672	ALL	UCART4	490280.3	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1673	ALL	UCART4	490354.9	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1674	ALL	UCART4	490429.4	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1675	ALL	UCART4	490503.9	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1676	ALL	UCART4	490578.4	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1677	ALL	UCART4	490652.9	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1678	ALL	UCART4	490727.5	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1679	ALL	UCART4	490802	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1680	ALL	UCART4	490876.5	3861575	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1681	ALL	UCART4	489386.1	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05
1682	ALL	UCART4	489460.6	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05
1683	ALL	UCART4	489535.1	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05
1684	ALL	UCART4	489609.7	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05
1685	ALL	UCART4	489684.2	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05
1686	ALL	UCART4	489758.7	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05
1687	ALL	UCART4	489833.2	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05
1688	ALL	UCART4	489907.7	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05
1689	ALL	UCART4	489982.3	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05
1690	ALL	UCART4	490056.8	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-05
1691	ALL	UCART4	490131.3	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05
1692	ALL	UCART4	490205.8	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05
1693	ALL	UCART4	490280.3	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05
1694	ALL	UCART4	490354.9	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05
1695	ALL	UCART4	490429.4	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-05
1696	ALL	UCART4	490503.9	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05
1697	ALL	UCART4	490578.4	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-05
1698	ALL	UCART4	490652.9	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05

1699	ALL	UCART4	490727.5	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05
1700	ALL	UCART4	490802	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05
1701	ALL	UCART4	490876.5	3861600	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05
1702	ALL	UCART4	489386.1	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05
1703	ALL	UCART4	489460.6	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
1704	ALL	UCART4	489535.1	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05
1705	ALL	UCART4	489609.7	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05
1706	ALL	UCART4	489684.2	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-05
1707	ALL	UCART4	489758.7	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05
1708	ALL	UCART4	489833.2	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-05
1709	ALL	UCART4	489907.7	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-05
1710	ALL	UCART4	489982.3	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05
1711	ALL	UCART4	490056.8	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05
1712	ALL	UCART4	490131.3	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-05
1713	ALL	UCART4	490205.8	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-05
1714	ALL	UCART4	490280.3	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05
1715	ALL	UCART4	490354.9	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05
1716	ALL	UCART4	490429.4	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05
1717	ALL	UCART4	490503.9	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-05
1718	ALL	UCART4	490578.4	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-05
1719	ALL	UCART4	490652.9	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05
1720	ALL	UCART4	490727.5	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-05
1721	ALL	UCART4	490802	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05
1722	ALL	UCART4	490876.5	3861625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05
1723	ALL	UCART4	489386.1	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05
1724	ALL	UCART4	489460.6	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-05
1725	ALL	UCART4	489535.1	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-05
1726	ALL	UCART4	489609.7	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
1727	ALL	UCART4	489684.2	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05
1728	ALL	UCART4	489758.7	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05
1729	ALL	UCART4	489833.2	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05
1730	ALL	UCART4	489907.7	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05
1731	ALL	UCART4	489982.3	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05
1732	ALL	UCART4	490056.8	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05
1733	ALL	UCART4	490131.3	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05
1734	ALL	UCART4	490205.8	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05
1735	ALL	UCART4	490280.3	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05
1736	ALL	UCART4	490354.9	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-05
1737	ALL	UCART4	490429.4	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05
1738	ALL	UCART4	490503.9	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05
1739	ALL	UCART4	490578.4	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05
1740	ALL	UCART4	490652.9	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-05
1741	ALL	UCART4	490727.5	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05
1742	ALL	UCART4	490802	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05
1743	ALL	UCART4	490876.5	3861651	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05
1744	ALL	UCART4	489386.1	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
1745	ALL	UCART4	489460.6	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-05
1746	ALL	UCART4	489535.1	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05
1747	ALL	UCART4	489609.7	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
1748	ALL	UCART4	489684.2	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05

1749	ALL	UCART4	489758.7	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05
1750	ALL	UCART4	489833.2	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05
1751	ALL	UCART4	489907.7	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-05
1752	ALL	UCART4	489982.3	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05
1753	ALL	UCART4	490056.8	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-05
1754	ALL	UCART4	490131.3	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05
1755	ALL	UCART4	490205.8	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05
1756	ALL	UCART4	490280.3	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05
1757	ALL	UCART4	490354.9	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
1758	ALL	UCART4	490429.4	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05
1759	ALL	UCART4	490503.9	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05
1760	ALL	UCART4	490578.4	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
1761	ALL	UCART4	490652.9	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05
1762	ALL	UCART4	490727.5	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05
1763	ALL	UCART4	490802	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05
1764	ALL	UCART4	490876.5	3861676	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05
1765	ALL	UCART5	491611.2	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
1766	ALL	UCART5	491642	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
1767	ALL	UCART5	491672.8	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
1768	ALL	UCART5	491703.6	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04
1769	ALL	UCART5	491734.4	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
1770	ALL	UCART5	491765.2	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
1771	ALL	UCART5	491795.9	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
1772	ALL	UCART5	491826.7	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
1773	ALL	UCART5	491857.5	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
1774	ALL	UCART5	491888.3	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
1775	ALL	UCART5	491919.1	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
1776	ALL	UCART5	491949.9	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
1777	ALL	UCART5	491980.7	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
1778	ALL	UCART5	492011.5	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
1779	ALL	UCART5	492042.3	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
1780	ALL	UCART5	492073.1	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
1781	ALL	UCART5	492103.8	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
1782	ALL	UCART5	492134.6	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1783	ALL	UCART5	492165.4	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1784	ALL	UCART5	492196.2	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1785	ALL	UCART5	492227	3861105	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1786	ALL	UCART5	491611.2	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
1787	ALL	UCART5	491642	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
1788	ALL	UCART5	491672.8	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
1789	ALL	UCART5	491703.6	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1790	ALL	UCART5	491734.4	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
1791	ALL	UCART5	491765.2	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
1792	ALL	UCART5	491795.9	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
1793	ALL	UCART5	491826.7	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
1794	ALL	UCART5	491857.5	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
1795	ALL	UCART5	491888.3	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
1796	ALL	UCART5	491919.1	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
1797	ALL	UCART5	491949.9	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1798	ALL	UCART5	491980.7	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04

1799	ALL	UCART5	492011.5	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
1800	ALL	UCART5	492042.3	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
1801	ALL	UCART5	492073.1	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
1802	ALL	UCART5	492103.8	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1803	ALL	UCART5	492134.6	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1804	ALL	UCART5	492165.4	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1805	ALL	UCART5	492196.2	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1806	ALL	UCART5	492227	3861134	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
1807	ALL	UCART5	491611.2	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
1808	ALL	UCART5	491642	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
1809	ALL	UCART5	491672.8	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
1810	ALL	UCART5	491703.6	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
1811	ALL	UCART5	491734.4	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
1812	ALL	UCART5	491765.2	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
1813	ALL	UCART5	491795.9	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
1814	ALL	UCART5	491826.7	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
1815	ALL	UCART5	491857.5	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
1816	ALL	UCART5	491888.3	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
1817	ALL	UCART5	491919.1	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
1818	ALL	UCART5	491949.9	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
1819	ALL	UCART5	491980.7	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
1820	ALL	UCART5	492011.5	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
1821	ALL	UCART5	492042.3	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
1822	ALL	UCART5	492073.1	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
1823	ALL	UCART5	492103.8	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1824	ALL	UCART5	492134.6	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1825	ALL	UCART5	492165.4	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1826	ALL	UCART5	492196.2	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
1827	ALL	UCART5	492227	3861163	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
1828	ALL	UCART5	491611.2	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
1829	ALL	UCART5	491642	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
1830	ALL	UCART5	491672.8	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
1831	ALL	UCART5	491703.6	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
1832	ALL	UCART5	491734.4	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
1833	ALL	UCART5	491765.2	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
1834	ALL	UCART5	491795.9	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
1835	ALL	UCART5	491826.7	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
1836	ALL	UCART5	491857.5	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
1837	ALL	UCART5	491888.3	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
1838	ALL	UCART5	491919.1	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
1839	ALL	UCART5	491949.9	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
1840	ALL	UCART5	491980.7	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
1841	ALL	UCART5	492011.5	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
1842	ALL	UCART5	492042.3	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
1843	ALL	UCART5	492073.1	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
1844	ALL	UCART5	492103.8	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
1845	ALL	UCART5	492134.6	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
1846	ALL	UCART5	492165.4	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
1847	ALL	UCART5	492196.2	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1848	ALL	UCART5	492227	3861193	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04

1849	ALL	UCART5	491611.2	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
1850	ALL	UCART5	491642	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
1851	ALL	UCART5	491672.8	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
1852	ALL	UCART5	491703.6	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
1853	ALL	UCART5	491734.4	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
1854	ALL	UCART5	491765.2	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
1855	ALL	UCART5	491795.9	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
1856	ALL	UCART5	491826.7	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
1857	ALL	UCART5	491857.5	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
1858	ALL	UCART5	491888.3	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1859	ALL	UCART5	491919.1	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
1860	ALL	UCART5	491949.9	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
1861	ALL	UCART5	491980.7	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1862	ALL	UCART5	492011.5	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1863	ALL	UCART5	492042.3	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1864	ALL	UCART5	492073.1	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1865	ALL	UCART5	492103.8	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
1866	ALL	UCART5	492134.6	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1867	ALL	UCART5	492165.4	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1868	ALL	UCART5	492196.2	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
1869	ALL	UCART5	492227	3861222	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
1870	ALL	UCART5	491611.2	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
1871	ALL	UCART5	491642	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
1872	ALL	UCART5	491672.8	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
1873	ALL	UCART5	491703.6	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
1874	ALL	UCART5	491734.4	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
1875	ALL	UCART5	491765.2	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
1876	ALL	UCART5	491795.9	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
1877	ALL	UCART5	491826.7	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1878	ALL	UCART5	491857.5	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
1879	ALL	UCART5	491888.3	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
1880	ALL	UCART5	491919.1	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1881	ALL	UCART5	491949.9	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1882	ALL	UCART5	491980.7	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1883	ALL	UCART5	492011.5	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1884	ALL	UCART5	492042.3	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
1885	ALL	UCART5	492073.1	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
1886	ALL	UCART5	492103.8	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1887	ALL	UCART5	492134.6	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1888	ALL	UCART5	492165.4	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1889	ALL	UCART5	492196.2	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1890	ALL	UCART5	492227	3861252	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1891	ALL	UCART5	491611.2	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
1892	ALL	UCART5	491642	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
1893	ALL	UCART5	491672.8	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
1894	ALL	UCART5	491703.6	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
1895	ALL	UCART5	491734.4	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
1896	ALL	UCART5	491765.2	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
1897	ALL	UCART5	491795.9	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
1898	ALL	UCART5	491826.7	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04

1899	ALL	UCART5	491857.5	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
1900	ALL	UCART5	491888.3	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1901	ALL	UCART5	491919.1	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1902	ALL	UCART5	491949.9	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1903	ALL	UCART5	491980.7	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
1904	ALL	UCART5	492011.5	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
1905	ALL	UCART5	492042.3	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1906	ALL	UCART5	492073.1	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1907	ALL	UCART5	492103.8	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1908	ALL	UCART5	492134.6	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1909	ALL	UCART5	492165.4	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1910	ALL	UCART5	492196.2	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1911	ALL	UCART5	492227	3861281	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1912	ALL	UCART5	491611.2	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
1913	ALL	UCART5	491642	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
1914	ALL	UCART5	491672.8	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
1915	ALL	UCART5	491703.6	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
1916	ALL	UCART5	491734.4	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
1917	ALL	UCART5	491765.2	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
1918	ALL	UCART5	491795.9	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1919	ALL	UCART5	491826.7	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1920	ALL	UCART5	491857.5	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
1921	ALL	UCART5	491888.3	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
1922	ALL	UCART5	491919.1	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
1923	ALL	UCART5	491949.9	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1924	ALL	UCART5	491980.7	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1925	ALL	UCART5	492011.5	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
1926	ALL	UCART5	492042.3	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1927	ALL	UCART5	492073.1	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1928	ALL	UCART5	492103.8	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1929	ALL	UCART5	492134.6	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1930	ALL	UCART5	492165.4	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1931	ALL	UCART5	492196.2	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1932	ALL	UCART5	492227	3861311	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1933	ALL	UCART5	491611.2	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
1934	ALL	UCART5	491642	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
1935	ALL	UCART5	491672.8	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1936	ALL	UCART5	491703.6	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
1937	ALL	UCART5	491734.4	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1938	ALL	UCART5	491765.2	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
1939	ALL	UCART5	491795.9	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
1940	ALL	UCART5	491826.7	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
1941	ALL	UCART5	491857.5	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1942	ALL	UCART5	491888.3	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1943	ALL	UCART5	491919.1	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1944	ALL	UCART5	491949.9	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1945	ALL	UCART5	491980.7	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
1946	ALL	UCART5	492011.5	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
1947	ALL	UCART5	492042.3	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1948	ALL	UCART5	492073.1	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04

1949	ALL	UCART5	492103.8	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1950	ALL	UCART5	492134.6	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1951	ALL	UCART5	492165.4	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1952	ALL	UCART5	492196.2	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1953	ALL	UCART5	492227	3861340	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
1954	ALL	UCART5	491611.2	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
1955	ALL	UCART5	491642	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1956	ALL	UCART5	491672.8	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
1957	ALL	UCART5	491703.6	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
1958	ALL	UCART5	491734.4	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
1959	ALL	UCART5	491765.2	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1960	ALL	UCART5	491795.9	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1961	ALL	UCART5	491826.7	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
1962	ALL	UCART5	491857.5	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1963	ALL	UCART5	491888.3	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
1964	ALL	UCART5	491919.1	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1965	ALL	UCART5	491949.9	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1966	ALL	UCART5	491980.7	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
1967	ALL	UCART5	492011.5	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1968	ALL	UCART5	492042.3	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1969	ALL	UCART5	492073.1	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1970	ALL	UCART5	492103.8	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1971	ALL	UCART5	492134.6	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
1972	ALL	UCART5	492165.4	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1973	ALL	UCART5	492196.2	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1974	ALL	UCART5	492227	3861370	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1975	ALL	UCART5	491611.2	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
1976	ALL	UCART5	491642	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1977	ALL	UCART5	491672.8	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1978	ALL	UCART5	491703.6	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
1979	ALL	UCART5	491734.4	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
1980	ALL	UCART5	491765.2	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
1981	ALL	UCART5	491795.9	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
1982	ALL	UCART5	491826.7	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1983	ALL	UCART5	491857.5	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1984	ALL	UCART5	491888.3	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1985	ALL	UCART5	491919.1	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1986	ALL	UCART5	491949.9	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1987	ALL	UCART5	491980.7	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1988	ALL	UCART5	492011.5	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1989	ALL	UCART5	492042.3	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1990	ALL	UCART5	492073.1	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1991	ALL	UCART5	492103.8	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1992	ALL	UCART5	492134.6	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1993	ALL	UCART5	492165.4	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
1994	ALL	UCART5	492196.2	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1995	ALL	UCART5	492227	3861399	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1996	ALL	UCART5	491611.2	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1997	ALL	UCART5	491642	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1998	ALL	UCART5	491672.8	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04

1999	ALL	UCART5	491703.6	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
2000	ALL	UCART5	491734.4	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
2001	ALL	UCART5	491765.2	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
2002	ALL	UCART5	491795.9	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
2003	ALL	UCART5	491826.7	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
2004	ALL	UCART5	491857.5	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
2005	ALL	UCART5	491888.3	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
2006	ALL	UCART5	491919.1	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
2007	ALL	UCART5	491949.9	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
2008	ALL	UCART5	491980.7	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
2009	ALL	UCART5	492011.5	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
2010	ALL	UCART5	492042.3	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2011	ALL	UCART5	492073.1	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
2012	ALL	UCART5	492103.8	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
2013	ALL	UCART5	492134.6	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
2014	ALL	UCART5	492165.4	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2015	ALL	UCART5	492196.2	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05
2016	ALL	UCART5	492227	3861428	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05
2017	ALL	UCART5	491611.2	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
2018	ALL	UCART5	491642	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
2019	ALL	UCART5	491672.8	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
2020	ALL	UCART5	491703.6	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
2021	ALL	UCART5	491734.4	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
2022	ALL	UCART5	491765.2	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
2023	ALL	UCART5	491795.9	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
2024	ALL	UCART5	491826.7	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
2025	ALL	UCART5	491857.5	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
2026	ALL	UCART5	491888.3	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2027	ALL	UCART5	491919.1	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
2028	ALL	UCART5	491949.9	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
2029	ALL	UCART5	491980.7	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
2030	ALL	UCART5	492011.5	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
2031	ALL	UCART5	492042.3	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
2032	ALL	UCART5	492073.1	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2033	ALL	UCART5	492103.8	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05
2034	ALL	UCART5	492134.6	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-05
2035	ALL	UCART5	492165.4	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-05
2036	ALL	UCART5	492196.2	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05
2037	ALL	UCART5	492227	3861458	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05
2038	ALL	UCART5	491611.2	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
2039	ALL	UCART5	491642	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
2040	ALL	UCART5	491672.8	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
2041	ALL	UCART5	491703.6	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
2042	ALL	UCART5	491734.4	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2043	ALL	UCART5	491765.2	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
2044	ALL	UCART5	491795.9	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
2045	ALL	UCART5	491826.7	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
2046	ALL	UCART5	491857.5	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
2047	ALL	UCART5	491888.3	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
2048	ALL	UCART5	491919.1	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04

2049	ALL	UCART5	491949.9	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2050	ALL	UCART5	491980.7	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-05
2051	ALL	UCART5	492011.5	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-05
2052	ALL	UCART5	492042.3	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05
2053	ALL	UCART5	492073.1	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05
2054	ALL	UCART5	492103.8	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05
2055	ALL	UCART5	492134.6	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05
2056	ALL	UCART5	492165.4	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-05
2057	ALL	UCART5	492196.2	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05
2058	ALL	UCART5	492227	3861487	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-05
2059	ALL	UCART5	491611.2	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
2060	ALL	UCART5	491642	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
2061	ALL	UCART5	491672.8	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
2062	ALL	UCART5	491703.6	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
2063	ALL	UCART5	491734.4	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
2064	ALL	UCART5	491765.2	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2065	ALL	UCART5	491795.9	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
2066	ALL	UCART5	491826.7	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
2067	ALL	UCART5	491857.5	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05
2068	ALL	UCART5	491888.3	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05
2069	ALL	UCART5	491919.1	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05
2070	ALL	UCART5	491949.9	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05
2071	ALL	UCART5	491980.7	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-05
2072	ALL	UCART5	492011.5	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-05
2073	ALL	UCART5	492042.3	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05
2074	ALL	UCART5	492073.1	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05
2075	ALL	UCART5	492103.8	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05
2076	ALL	UCART5	492134.6	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05
2077	ALL	UCART5	492165.4	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-05
2078	ALL	UCART5	492196.2	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05
2079	ALL	UCART5	492227	3861517	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
2080	ALL	UCART5	491611.2	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-05
2081	ALL	UCART5	491642	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-05
2082	ALL	UCART5	491672.8	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05
2083	ALL	UCART5	491703.6	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05
2084	ALL	UCART5	491734.4	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05
2085	ALL	UCART5	491765.2	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05
2086	ALL	UCART5	491795.9	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-05
2087	ALL	UCART5	491826.7	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-05
2088	ALL	UCART5	491857.5	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05
2089	ALL	UCART5	491888.3	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-05
2090	ALL	UCART5	491919.1	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05
2091	ALL	UCART5	491949.9	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05
2092	ALL	UCART5	491980.7	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05
2093	ALL	UCART5	492011.5	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05
2094	ALL	UCART5	492042.3	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05
2095	ALL	UCART5	492073.1	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-05
2096	ALL	UCART5	492103.8	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-05
2097	ALL	UCART5	492134.6	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-05
2098	ALL	UCART5	492165.4	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-05

2099	ALL	UCART5	492196.2	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05
2100	ALL	UCART5	492227	3861546	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05
2101	ALL	UCART5	491611.2	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-05
2102	ALL	UCART5	491642	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05
2103	ALL	UCART5	491672.8	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05
2104	ALL	UCART5	491703.6	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05
2105	ALL	UCART5	491734.4	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05
2106	ALL	UCART5	491765.2	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05
2107	ALL	UCART5	491795.9	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05
2108	ALL	UCART5	491826.7	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05
2109	ALL	UCART5	491857.5	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05
2110	ALL	UCART5	491888.3	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-05
2111	ALL	UCART5	491919.1	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-05
2112	ALL	UCART5	491949.9	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05
2113	ALL	UCART5	491980.7	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-05
2114	ALL	UCART5	492011.5	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05
2115	ALL	UCART5	492042.3	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05
2116	ALL	UCART5	492073.1	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05
2117	ALL	UCART5	492103.8	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05
2118	ALL	UCART5	492134.6	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
2119	ALL	UCART5	492165.4	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-05
2120	ALL	UCART5	492196.2	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
2121	ALL	UCART5	492227	3861576	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05
2122	ALL	UCART5	491611.2	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05
2123	ALL	UCART5	491642	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05
2124	ALL	UCART5	491672.8	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-05
2125	ALL	UCART5	491703.6	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-05
2126	ALL	UCART5	491734.4	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
2127	ALL	UCART5	491765.2	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05
2128	ALL	UCART5	491795.9	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-05
2129	ALL	UCART5	491826.7	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-05
2130	ALL	UCART5	491857.5	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05
2131	ALL	UCART5	491888.3	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05
2132	ALL	UCART5	491919.1	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05
2133	ALL	UCART5	491949.9	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05
2134	ALL	UCART5	491980.7	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05
2135	ALL	UCART5	492011.5	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05
2136	ALL	UCART5	492042.3	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05
2137	ALL	UCART5	492073.1	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05
2138	ALL	UCART5	492103.8	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05
2139	ALL	UCART5	492134.6	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05
2140	ALL	UCART5	492165.4	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05
2141	ALL	UCART5	492196.2	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-05
2142	ALL	UCART5	492227	3861605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05
2143	ALL	UCART5	491611.2	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-05
2144	ALL	UCART5	491642	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05
2145	ALL	UCART5	491672.8	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-05
2146	ALL	UCART5	491703.6	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05
2147	ALL	UCART5	491734.4	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05
2148	ALL	UCART5	491765.2	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-05

2149	ALL	UCART5	491795.9	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05
2150	ALL	UCART5	491826.7	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05
2151	ALL	UCART5	491857.5	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
2152	ALL	UCART5	491888.3	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-05
2153	ALL	UCART5	491919.1	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05
2154	ALL	UCART5	491949.9	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05
2155	ALL	UCART5	491980.7	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05
2156	ALL	UCART5	492011.5	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05
2157	ALL	UCART5	492042.3	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05
2158	ALL	UCART5	492073.1	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
2159	ALL	UCART5	492103.8	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05
2160	ALL	UCART5	492134.6	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-05
2161	ALL	UCART5	492165.4	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05
2162	ALL	UCART5	492196.2	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05
2163	ALL	UCART5	492227	3861635	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05
2164	ALL	UCART5	491611.2	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
2165	ALL	UCART5	491642	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-05
2166	ALL	UCART5	491672.8	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05
2167	ALL	UCART5	491703.6	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-05
2168	ALL	UCART5	491734.4	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-05
2169	ALL	UCART5	491765.2	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05
2170	ALL	UCART5	491795.9	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-05
2171	ALL	UCART5	491826.7	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05
2172	ALL	UCART5	491857.5	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-05
2173	ALL	UCART5	491888.3	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05
2174	ALL	UCART5	491919.1	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05
2175	ALL	UCART5	491949.9	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-05
2176	ALL	UCART5	491980.7	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-05
2177	ALL	UCART5	492011.5	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05
2178	ALL	UCART5	492042.3	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05
2179	ALL	UCART5	492073.1	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05
2180	ALL	UCART5	492103.8	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05
2181	ALL	UCART5	492134.6	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05
2182	ALL	UCART5	492165.4	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05
2183	ALL	UCART5	492196.2	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05
2184	ALL	UCART5	492227	3861664	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05
2185	ALL	UCART5	491611.2	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05
2186	ALL	UCART5	491642	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05
2187	ALL	UCART5	491672.8	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-05
2188	ALL	UCART5	491703.6	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
2189	ALL	UCART5	491734.4	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-05
2190	ALL	UCART5	491765.2	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05
2191	ALL	UCART5	491795.9	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-05
2192	ALL	UCART5	491826.7	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05
2193	ALL	UCART5	491857.5	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05
2194	ALL	UCART5	491888.3	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-05
2195	ALL	UCART5	491919.1	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05
2196	ALL	UCART5	491949.9	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-05
2197	ALL	UCART5	491980.7	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05
2198	ALL	UCART5	492011.5	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-05

2199	ALL	UCART5	492042.3	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05
2200	ALL	UCART5	492073.1	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-05
2201	ALL	UCART5	492103.8	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05
2202	ALL	UCART5	492134.6	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
2203	ALL	UCART5	492165.4	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05
2204	ALL	UCART5	492196.2	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-05
2205	ALL	UCART5	492227	3861694	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05
2206	ALL		488803	3861310	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05
2207	ALL		488863.6	3861309	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05
2208	ALL		488847.6	3861280	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-05
2209	ALL		488850.8	3861262	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2210	ALL		488810.1	3861261	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05
2211	ALL		488810.9	3861289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-05
2212	ALL		488819.7	3861307	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05
2213	ALL		488816.5	3861236	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2214	ALL		488841.3	3861127	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
2215	ALL		488879.5	3861122	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
2216	ALL		488913.8	3861121	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
2217	ALL		488925.8	3861092	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
2218	ALL		488920	3861067	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
2219	ALL		488996.7	3861114	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
2220	ALL		488974	3861098	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
2221	ALL		488931.6	3860977	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
2222	ALL		488935.7	3861035	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
2223	ALL		488959.9	3861061	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2224	ALL		489165.8	3861209	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
2225	ALL		489317.7	3861109	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-04
2226	ALL		489385.9	3861015	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04
2227	ALL		489372.2	3861113	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-04
2228	ALL		489420.8	3861107	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-04
2229	ALL		489436.1	3861038	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
2230	ALL		489488.1	3861037	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04
2231	ALL		489473.6	3861111	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04
2232	ALL		489431	3861167	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-04
2233	ALL		489662.7	3860916	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
2234	ALL		489644.8	3861076	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04
2235	ALL		489659.3	3861099	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04
2236	ALL		489735.9	3861021	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04
2237	ALL		489700.1	3861029	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
2238	ALL		489708.7	3861062	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04
2239	ALL		489779.3	3861099	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04
2240	ALL		489836	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2241	ALL		489886	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
2242	ALL		489936	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05
2243	ALL		489986	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-05
2244	ALL		490036	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05
2245	ALL		490086	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05
2246	ALL		490136	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05
2247	ALL		490186	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05
2248	ALL		490236	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-05

2249	ALL	490286	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
2250	ALL	490336	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05
2251	ALL	490386	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05
2252	ALL	490436	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05
2253	ALL	490486	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05
2254	ALL	490536	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05
2255	ALL	490586	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05
2256	ALL	490636	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05
2257	ALL	490686	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05
2258	ALL	490736	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05
2259	ALL	490786	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05
2260	ALL	490836	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
2261	ALL	490886	3859139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
2262	ALL	489836	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2263	ALL	489886	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
2264	ALL	489936	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05
2265	ALL	489986	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05
2266	ALL	490036	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05
2267	ALL	490086	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05
2268	ALL	490136	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05
2269	ALL	490186	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05
2270	ALL	490236	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05
2271	ALL	490286	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05
2272	ALL	490336	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-05
2273	ALL	490386	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-05
2274	ALL	490436	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05
2275	ALL	490486	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05
2276	ALL	490536	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05
2277	ALL	490586	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-05
2278	ALL	490636	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05
2279	ALL	490686	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
2280	ALL	490736	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05
2281	ALL	490786	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05
2282	ALL	490836	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05
2283	ALL	490886	3859189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05
2284	ALL	489836	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2285	ALL	489886	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
2286	ALL	489936	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
2287	ALL	489986	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05
2288	ALL	490036	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
2289	ALL	490086	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-05
2290	ALL	490136	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05
2291	ALL	490186	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05
2292	ALL	490236	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05
2293	ALL	490286	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
2294	ALL	490336	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05
2295	ALL	490386	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-05
2296	ALL	490436	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05
2297	ALL	490486	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05
2298	ALL	490536	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05

2299 ALL	490586	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
2300 ALL	490636	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05
2301 ALL	490686	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05
2302 ALL	490736	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05
2303 ALL	490786	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05
2304 ALL	490836	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
2305 ALL	490886	3859239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
2306 ALL	489836	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2307 ALL	489886	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
2308 ALL	489936	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05
2309 ALL	489986	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05
2310 ALL	490036	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05
2311 ALL	490086	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05
2312 ALL	490136	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05
2313 ALL	490186	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05
2314 ALL	490236	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05
2315 ALL	490286	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-05
2316 ALL	490336	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-05
2317 ALL	490386	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05
2318 ALL	490436	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05
2319 ALL	490486	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-05
2320 ALL	490536	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05
2321 ALL	490586	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05
2322 ALL	490636	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05
2323 ALL	490686	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05
2324 ALL	490736	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
2325 ALL	490786	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
2326 ALL	490836	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05
2327 ALL	490886	3859289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05
2328 ALL	489836	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
2329 ALL	489886	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
2330 ALL	489936	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2331 ALL	489986	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05
2332 ALL	490036	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05
2333 ALL	490086	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05
2334 ALL	490136	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05
2335 ALL	490186	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-05
2336 ALL	490236	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-05
2337 ALL	490286	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-05
2338 ALL	490336	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-05
2339 ALL	490386	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05
2340 ALL	490436	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05
2341 ALL	490486	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05
2342 ALL	490536	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05
2343 ALL	490586	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05
2344 ALL	490636	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05
2345 ALL	490686	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05
2346 ALL	490736	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05
2347 ALL	490786	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05
2348 ALL	490836	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-05

2349	ALL	490886	3859339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05
2350	ALL	489836	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
2351	ALL	489886	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
2352	ALL	489936	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
2353	ALL	489986	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-05
2354	ALL	490036	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05
2355	ALL	490086	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05
2356	ALL	490136	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-05
2357	ALL	490186	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05
2358	ALL	490236	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05
2359	ALL	490286	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05
2360	ALL	490336	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05
2361	ALL	490386	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-05
2362	ALL	490436	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
2363	ALL	490486	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05
2364	ALL	490536	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05
2365	ALL	490586	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05
2366	ALL	490636	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05
2367	ALL	490686	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-05
2368	ALL	490736	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05
2369	ALL	490786	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-05
2370	ALL	490836	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-05
2371	ALL	490886	3859389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
2372	ALL	489836	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
2373	ALL	489886	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2374	ALL	489936	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
2375	ALL	489986	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2376	ALL	490036	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05
2377	ALL	490086	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05
2378	ALL	490136	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-05
2379	ALL	490186	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-05
2380	ALL	490236	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05
2381	ALL	490286	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-05
2382	ALL	490336	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-05
2383	ALL	490386	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-05
2384	ALL	490436	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05
2385	ALL	490486	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
2386	ALL	490536	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-05
2387	ALL	490586	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05
2388	ALL	490636	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
2389	ALL	490686	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05
2390	ALL	490736	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05
2391	ALL	490786	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05
2392	ALL	490836	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05
2393	ALL	490886	3859439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05
2394	ALL	490086	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05
2395	ALL	490136	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-05
2396	ALL	490186	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05
2397	ALL	490236	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05
2398	ALL	490286	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05

2399	ALL	490336	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05
2400	ALL	490386	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-05
2401	ALL	490436	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05
2402	ALL	490486	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-05
2403	ALL	490536	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05
2404	ALL	490586	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05
2405	ALL	490636	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-05
2406	ALL	490686	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05
2407	ALL	490736	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-05
2408	ALL	490786	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05
2409	ALL	490836	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05
2410	ALL	490886	3859489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05
2411	ALL	490086	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
2412	ALL	490136	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-05
2413	ALL	490186	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05
2414	ALL	490236	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-05
2415	ALL	490286	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05
2416	ALL	490336	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05
2417	ALL	490386	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05
2418	ALL	490436	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05
2419	ALL	490486	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-05
2420	ALL	490536	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05
2421	ALL	490586	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
2422	ALL	490636	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05
2423	ALL	490686	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05
2424	ALL	490736	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05
2425	ALL	490786	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
2426	ALL	490836	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05
2427	ALL	490886	3859539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05
2428	ALL	490136	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2429	ALL	490186	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-05
2430	ALL	490236	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05
2431	ALL	490286	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05
2432	ALL	490336	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-05
2433	ALL	490386	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05
2434	ALL	490436	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05
2435	ALL	490486	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05
2436	ALL	490536	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-05
2437	ALL	490586	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-05
2438	ALL	490636	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05
2439	ALL	490686	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05
2440	ALL	490736	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05
2441	ALL	490786	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05
2442	ALL	490836	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-05
2443	ALL	490886	3859589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05
2444	ALL	490136	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
2445	ALL	490186	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
2446	ALL	490236	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
2447	ALL	490286	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
2448	ALL	490336	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04

2449	ALL	490386	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
2450	ALL	490436	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05
2451	ALL	490486	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05
2452	ALL	490536	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-05
2453	ALL	490586	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05
2454	ALL	490636	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-05
2455	ALL	490686	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-05
2456	ALL	490736	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
2457	ALL	490786	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05
2458	ALL	490836	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05
2459	ALL	490886	3859639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05
2460	ALL	490136	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
2461	ALL	490186	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
2462	ALL	490236	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
2463	ALL	490286	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2464	ALL	490336	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2465	ALL	490386	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
2466	ALL	490436	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
2467	ALL	490486	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
2468	ALL	490536	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
2469	ALL	490586	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
2470	ALL	490636	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
2471	ALL	490686	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2472	ALL	490736	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-05
2473	ALL	490786	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05
2474	ALL	490836	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05
2475	ALL	490886	3859689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05
2476	ALL	490086	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
2477	ALL	490136	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
2478	ALL	490186	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
2479	ALL	490236	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
2480	ALL	490286	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
2481	ALL	490336	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
2482	ALL	490386	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
2483	ALL	490436	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
2484	ALL	490486	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
2485	ALL	490536	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
2486	ALL	490586	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
2487	ALL	490636	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
2488	ALL	490686	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
2489	ALL	490736	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2490	ALL	490786	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
2491	ALL	490836	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
2492	ALL	490886	3859739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
2493	ALL	490086	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
2494	ALL	490136	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
2495	ALL	490186	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
2496	ALL	490236	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
2497	ALL	490286	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
2498	ALL	490336	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04

2499	ALL	490386	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
2500	ALL	490436	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
2501	ALL	490486	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
2502	ALL	490536	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
2503	ALL	490586	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
2504	ALL	490636	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
2505	ALL	490686	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
2506	ALL	490736	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
2507	ALL	490786	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
2508	ALL	490836	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
2509	ALL	490886	3859789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
2510	ALL	490086	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
2511	ALL	490136	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
2512	ALL	490186	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
2513	ALL	490236	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
2514	ALL	490286	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
2515	ALL	490336	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
2516	ALL	490386	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
2517	ALL	490436	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
2518	ALL	490486	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
2519	ALL	490536	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
2520	ALL	490586	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
2521	ALL	490636	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
2522	ALL	490686	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
2523	ALL	490736	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
2524	ALL	490786	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
2525	ALL	490836	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
2526	ALL	490886	3859839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
2527	ALL	490086	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
2528	ALL	490136	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
2529	ALL	490186	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
2530	ALL	490236	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
2531	ALL	490286	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
2532	ALL	490336	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
2533	ALL	490386	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
2534	ALL	490436	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
2535	ALL	490486	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
2536	ALL	490536	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
2537	ALL	490586	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
2538	ALL	490636	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
2539	ALL	490686	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
2540	ALL	490736	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
2541	ALL	490786	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
2542	ALL	490836	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
2543	ALL	490886	3859889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
2544	ALL	490136	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
2545	ALL	490186	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
2546	ALL	490236	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
2547	ALL	490286	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
2548	ALL	490336	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04

2549	ALL	490386	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
2550	ALL	490436	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
2551	ALL	490486	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
2552	ALL	490536	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
2553	ALL	490586	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
2554	ALL	490636	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
2555	ALL	490686	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
2556	ALL	490736	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
2557	ALL	490786	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
2558	ALL	490836	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
2559	ALL	490886	3859939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
2560	ALL	490136	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
2561	ALL	490186	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
2562	ALL	490236	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
2563	ALL	490286	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
2564	ALL	490336	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
2565	ALL	490386	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
2566	ALL	490436	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
2567	ALL	490486	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2568	ALL	490536	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2569	ALL	490586	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
2570	ALL	490636	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
2571	ALL	490686	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
2572	ALL	490736	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
2573	ALL	490786	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
2574	ALL	490836	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
2575	ALL	490886	3859989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
2576	ALL	490136	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
2577	ALL	490186	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
2578	ALL	490236	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
2579	ALL	490286	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
2580	ALL	490336	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
2581	ALL	490386	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
2582	ALL	490436	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
2583	ALL	490486	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
2584	ALL	490536	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
2585	ALL	490586	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
2586	ALL	490636	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
2587	ALL	490686	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2588	ALL	490736	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2589	ALL	490786	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
2590	ALL	490836	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
2591	ALL	490886	3860039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
2592	ALL	490136	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
2593	ALL	490186	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
2594	ALL	490236	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
2595	ALL	490286	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
2596	ALL	490336	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
2597	ALL	490386	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
2598	ALL	490436	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04

2599	ALL	490486	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
2600	ALL	490536	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
2601	ALL	490586	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
2602	ALL	490636	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
2603	ALL	490686	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
2604	ALL	490736	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
2605	ALL	490786	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
2606	ALL	490836	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
2607	ALL	490886	3860089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
2608	ALL	490136	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
2609	ALL	490186	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
2610	ALL	490236	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
2611	ALL	490286	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
2612	ALL	490336	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
2613	ALL	490386	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
2614	ALL	490436	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
2615	ALL	490486	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
2616	ALL	490536	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
2617	ALL	490586	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
2618	ALL	490636	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
2619	ALL	490686	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
2620	ALL	490736	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
2621	ALL	490786	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
2622	ALL	490836	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
2623	ALL	490886	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
2624	ALL	490936	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2625	ALL	490986	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2626	ALL	491036	3860139	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
2627	ALL	490136	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04
2628	ALL	490186	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
2629	ALL	490236	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
2630	ALL	490286	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
2631	ALL	490336	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
2632	ALL	490386	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
2633	ALL	490436	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
2634	ALL	490486	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
2635	ALL	490536	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
2636	ALL	490586	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
2637	ALL	490636	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
2638	ALL	490686	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
2639	ALL	490736	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
2640	ALL	490786	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
2641	ALL	490836	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
2642	ALL	490886	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
2643	ALL	490936	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
2644	ALL	490986	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
2645	ALL	491036	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2646	ALL	491086	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2647	ALL	491136	3860189	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
2648	ALL	490136	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04

2649	ALL	490186	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
2650	ALL	490236	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04
2651	ALL	490286	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
2652	ALL	490336	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
2653	ALL	490386	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
2654	ALL	490436	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
2655	ALL	490486	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
2656	ALL	490536	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
2657	ALL	490586	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
2658	ALL	490636	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
2659	ALL	490686	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
2660	ALL	490736	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
2661	ALL	490786	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
2662	ALL	490836	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
2663	ALL	490886	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
2664	ALL	490936	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
2665	ALL	490986	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
2666	ALL	491036	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
2667	ALL	491086	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
2668	ALL	491136	3860239	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2669	ALL	490136	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
2670	ALL	490186	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
2671	ALL	490236	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
2672	ALL	490286	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04
2673	ALL	490336	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04
2674	ALL	490386	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
2675	ALL	490436	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
2676	ALL	490486	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
2677	ALL	490536	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
2678	ALL	490586	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
2679	ALL	490636	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
2680	ALL	490686	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
2681	ALL	490736	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
2682	ALL	490786	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
2683	ALL	490836	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
2684	ALL	490886	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
2685	ALL	490936	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
2686	ALL	490986	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
2687	ALL	491036	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
2688	ALL	491086	3860289	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
2689	ALL	490136	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
2690	ALL	490186	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04
2691	ALL	490236	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
2692	ALL	490286	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
2693	ALL	490336	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
2694	ALL	490386	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04
2695	ALL	490436	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
2696	ALL	490486	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
2697	ALL	490536	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
2698	ALL	490586	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04

2699	ALL	490636	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
2700	ALL	490686	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
2701	ALL	490736	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
2702	ALL	490786	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
2703	ALL	490836	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
2704	ALL	490886	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
2705	ALL	490936	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
2706	ALL	490986	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
2707	ALL	491036	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
2708	ALL	491086	3860339	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
2709	ALL	490136	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04
2710	ALL	490186	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
2711	ALL	490236	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04
2712	ALL	490286	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
2713	ALL	490336	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
2714	ALL	490386	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04
2715	ALL	490436	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
2716	ALL	490486	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
2717	ALL	490536	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04
2718	ALL	490586	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
2719	ALL	490636	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
2720	ALL	490686	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
2721	ALL	490736	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
2722	ALL	490786	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
2723	ALL	490836	3860389	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
2724	ALL	490136	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
2725	ALL	490186	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04
2726	ALL	490236	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04
2727	ALL	490286	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04
2728	ALL	490336	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
2729	ALL	490386	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
2730	ALL	490436	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
2731	ALL	490486	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
2732	ALL	490536	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
2733	ALL	490586	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
2734	ALL	490636	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
2735	ALL	490686	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
2736	ALL	490736	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
2737	ALL	490786	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
2738	ALL	490836	3860439	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
2739	ALL	490136	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04
2740	ALL	490186	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04
2741	ALL	490236	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04
2742	ALL	490286	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
2743	ALL	490336	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
2744	ALL	490386	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
2745	ALL	490436	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
2746	ALL	490486	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04
2747	ALL	490536	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
2748	ALL	490586	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04

2749 ALL	490636	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
2750 ALL	490686	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
2751 ALL	490736	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
2752 ALL	490786	3860489	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
2753 ALL	490136	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04
2754 ALL	490186	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04
2755 ALL	490236	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
2756 ALL	490286	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04
2757 ALL	490336	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
2758 ALL	490386	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
2759 ALL	490436	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
2760 ALL	490486	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
2761 ALL	490536	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
2762 ALL	490586	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
2763 ALL	490636	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
2764 ALL	490686	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
2765 ALL	490736	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
2766 ALL	490786	3860539	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
2767 ALL	490136	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04
2768 ALL	490186	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
2769 ALL	490236	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
2770 ALL	490286	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04
2771 ALL	490336	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
2772 ALL	490386	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04
2773 ALL	490436	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
2774 ALL	490486	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04
2775 ALL	490536	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
2776 ALL	490586	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
2777 ALL	490636	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
2778 ALL	490686	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
2779 ALL	490736	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
2780 ALL	490786	3860589	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
2781 ALL	490136	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
2782 ALL	490186	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04
2783 ALL	490236	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04
2784 ALL	490286	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04
2785 ALL	490336	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
2786 ALL	490386	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04
2787 ALL	490436	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
2788 ALL	490486	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04
2789 ALL	490536	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
2790 ALL	490586	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
2791 ALL	490636	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
2792 ALL	490686	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
2793 ALL	490736	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
2794 ALL	490786	3860639	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
2795 ALL	490136	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04
2796 ALL	490186	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04
2797 ALL	490236	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
2798 ALL	490286	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04

2799 ALL	490336	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04
2800 ALL	490386	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
2801 ALL	490436	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
2802 ALL	490486	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
2803 ALL	490536	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
2804 ALL	490586	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
2805 ALL	490636	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
2806 ALL	490686	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
2807 ALL	490736	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
2808 ALL	490786	3860689	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
2809 ALL	490136	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04
2810 ALL	490186	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-04
2811 ALL	490236	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04
2812 ALL	490286	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04
2813 ALL	490336	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
2814 ALL	490386	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
2815 ALL	490436	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04
2816 ALL	490486	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
2817 ALL	490536	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
2818 ALL	490586	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
2819 ALL	490636	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
2820 ALL	490686	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
2821 ALL	490736	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
2822 ALL	490786	3860739	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
2823 ALL	490136	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04
2824 ALL	490186	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04
2825 ALL	490236	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04
2826 ALL	490286	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
2827 ALL	490336	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04
2828 ALL	490386	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
2829 ALL	490436	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
2830 ALL	490486	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04
2831 ALL	490536	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
2832 ALL	490586	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
2833 ALL	490636	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
2834 ALL	490686	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
2835 ALL	490736	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
2836 ALL	490786	3860789	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
2837 ALL	489986	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04
2838 ALL	490036	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04
2839 ALL	490086	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
2840 ALL	490136	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
2841 ALL	490186	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04
2842 ALL	490236	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
2843 ALL	490286	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04
2844 ALL	490336	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04
2845 ALL	490386	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
2846 ALL	490436	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04
2847 ALL	490486	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
2848 ALL	490536	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04

2849 ALL	490586	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04
2850 ALL	490636	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
2851 ALL	490686	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
2852 ALL	490736	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
2853 ALL	490786	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
2854 ALL	490836	3860839	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
2855 ALL	489836	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04
2856 ALL	489886	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04
2857 ALL	489936	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04
2858 ALL	489986	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-04
2859 ALL	490036	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04
2860 ALL	490086	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
2861 ALL	490136	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
2862 ALL	490186	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04
2863 ALL	490236	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
2864 ALL	490286	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04
2865 ALL	490336	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04
2866 ALL	490386	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
2867 ALL	490436	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
2868 ALL	490486	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
2869 ALL	490536	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
2870 ALL	490586	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
2871 ALL	490636	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
2872 ALL	490686	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
2873 ALL	490736	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
2874 ALL	490786	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
2875 ALL	490836	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
2876 ALL	490886	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
2877 ALL	490936	3860889	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
2878 ALL	489836	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-04
2879 ALL	489886	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-04
2880 ALL	489936	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04
2881 ALL	489986	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
2882 ALL	490036	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
2883 ALL	490086	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04
2884 ALL	490136	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04
2885 ALL	490186	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
2886 ALL	490236	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04
2887 ALL	490286	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
2888 ALL	490336	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04
2889 ALL	490386	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
2890 ALL	490436	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04
2891 ALL	490486	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
2892 ALL	490536	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
2893 ALL	490586	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
2894 ALL	490636	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
2895 ALL	490686	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
2896 ALL	490736	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04
2897 ALL	490786	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
2898 ALL	490836	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04

2899 ALL	490886	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
2900 ALL	490936	3860939	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
2901 ALL	489836	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04
2902 ALL	489886	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04
2903 ALL	489936	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
2904 ALL	489986	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
2905 ALL	490036	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04
2906 ALL	490086	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
2907 ALL	490136	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04
2908 ALL	490186	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04
2909 ALL	490236	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
2910 ALL	490286	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
2911 ALL	490336	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04
2912 ALL	490386	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04
2913 ALL	490436	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
2914 ALL	490486	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
2915 ALL	490536	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
2916 ALL	490586	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
2917 ALL	490636	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04
2918 ALL	490686	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
2919 ALL	490736	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04
2920 ALL	490786	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
2921 ALL	490836	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
2922 ALL	490886	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
2923 ALL	490936	3860989	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
2924 ALL	489836	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04
2925 ALL	489886	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04
2926 ALL	489936	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-04
2927 ALL	489986	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
2928 ALL	490036	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04
2929 ALL	490086	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04
2930 ALL	490136	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04
2931 ALL	490186	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04
2932 ALL	490236	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04
2933 ALL	490286	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04
2934 ALL	490336	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04
2935 ALL	490386	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04
2936 ALL	490436	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04
2937 ALL	490486	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04
2938 ALL	490536	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04
2939 ALL	490586	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04
2940 ALL	490636	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
2941 ALL	490686	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
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2943 ALL	490786	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04
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2945 ALL	490886	3861039	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
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2948 ALL	489886	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04

2949	ALL	489936	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04
2950	ALL	489986	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04
2951	ALL	490036	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04
2952	ALL	490086	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04
2953	ALL	490136	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04
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2955	ALL	490236	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04
2956	ALL	490286	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04
2957	ALL	490336	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04
2958	ALL	490386	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04
2959	ALL	490436	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04
2960	ALL	490486	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04
2961	ALL	490536	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04
2962	ALL	490586	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04
2963	ALL	490636	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04
2964	ALL	490686	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-04
2965	ALL	490736	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04
2966	ALL	490786	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04
2967	ALL	490836	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04
2968	ALL	490886	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04
2969	ALL	490936	3861089	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04
2970	ALL	489020.8	3862565	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
2971	ALL	489043.2	3862350	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
2972	ALL	489073	3862288	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
2973	ALL	488980.6	3862079	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05
2974	ALL	489037.2	3862823	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
2975	ALL	489120.7	3863016	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
2976	ALL	489037.2	3863350	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05

1.04E-03

Appendix C

Biological Resources Technical Report

Biological Resources Technical Report

Electric Vehicle Charging Station and Logistics Facility

OCTOBER 2024
(Rev. April 2026)

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
amsl	above mean sea level
BSA	biological survey area
Cal-IPC	California Invasive Plant Council
CDFW	California Department of Fish and Wildlife
CDNPA	California Desert Native Plants Act
CEHC	California Essential Habitat Connectivity
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
City	City of Barstow
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
County	San Bernardino County
CRPR	California Rare Plant Rank
CWA	Clean Water Act
EPA	Environmental Protection Agency
EV	electric vehicle
FESA	Federal Endangered Species Act
GIS	geographic information system
ITP	Incidental Take Permit
MBTA	Migratory Bird Treaty Act
MM	Mitigation Measure
RWQCB	Regional Water Quality Control Board
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service

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1 Introduction

This Biological Resources Technical Report documents the results of surveys conducted to identify potential biological resources for the proposed Electric Vehicle Charging Station and Logistics Facility (project) in San Bernardino County (County), California. Figure 1, Project Location, shows the regional location and vicinity of the project site.

The purpose of this report is to (1) describe the condition of existing biological resources within the project site in terms of vegetation communities, plants, wildlife, wildlife habitats, and wetlands; (2) quantify potential direct and indirect impacts to special-status biological resources that could result from the project; (3) discuss those impacts in terms of biological significance in view of federal, state, and local laws and the San Bernardino County Countywide Plan/Policy Plan; and (4) specify measures to avoid, minimize, and/or mitigate any significant impacts that would occur to biological resources as a result of project implementation.

1.1 Project Description

The project includes the project site and off-site areas. The project site encompasses 99.85 acres and includes Assessor's Parcel Numbers 0497-142-03, 0497-142-04, 0497-142-14, and 0497-142-15 (Figure 1, Project Location. It is noted that the project site includes the easterly half of Lenwood Road along the project frontage (to the centerline). There are two off-site areas. One is located along Lenwood Road, and a second area is located off the eastern boundary of the project site). The project proposes the following uses: (1) an approximately 21-acre electric vehicle (EV) charging station to serve light duty/passenger vehicles and medium and heavy-duty trucks, battery storage, and a 15,000 square foot commercial building; and (2) a state-of-the-art concrete tilt-up logistics facility with three buildings totaling 1,341,432 square feet located on approximately 79 acres.

The project site is located in the unincorporated portion of the County, along Lenwood Road, between California State Route 58 and Interstate 15 in an area that is planned for significant intermodal, warehouse, and distribution uses. Across Lenwood Road is land zoned industrial by the City of Barstow (City), including the planned Barstow International Gateway Project being undertaken by the Burlington Northern Santa Fe Railway. The majority of the surrounding parcels are vacant, with the High Desert Estates subdivision located to the south of the project site.

The proposed project would also include landscaping, parking, required utility facilities and upgrades, and a buffer (e.g., landscaping, wall) at the project's southern boundary. Access to and from the site would be via Lenwood Road. Parking would be provided on site for each proposed use in accordance with County Development Code requirements. Water service would be provided by Golden State Water Company and the City would provide sewer service.

Electrical power would be provided by Southern California Edison, supplemented by on-site solar generation/batteries for the EV charging station (e.g., solar canopies above parking spaces). EV charging spaces would be designed and located on site to provide adequate access to customers and comply with public safety vehicle requirements. The hours of operation are proposed to be 24 hours per day, 7 days per week.

1.1.1 Project Location

The approximate 102.15-acre project (consisting of the 99.85 project site and approximately 2.3 acres of off-site areas) is located 4 miles west of downtown Barstow in the unincorporated County (Figure 1, Project Location). Specifically, the project is located in Section 8 of Township 9 North, Range 2 West, as depicted on the U.S. Geological Survey, Barstow, California 7.5-minute topographic quadrangle map. The project is bound to the north by a few rural residential large-lot parcels, to the south by a residential subdivision, to the west by Lenwood Road, and to the east by vacant land. Regional access to the project site is provided via Interstate 15, approximately 3 miles southeast of the project site. Local access to the project site is provided via Lenwood Road.

1.1.2 Project Components

The proposed project would involve construction of an EV charging station that would include EV charging stations for automobiles and mid- and heavy-duty trucks, a truck wash, battery storage, truck scales, and up to a 15,000-square-foot commercial building with a restaurant and amenities (i.e., showers, rest areas) on approximately 21 acres in the southern portion of the site.

The remainder of the site is proposed to include three logistics facilities. Each building would occupy 447,144 square feet for a total of 1,341,432 square feet on approximately 79 acres.

Proposed landscaping would be local ornamental in nature and would feature drought-tolerant trees, shrubs, and groundcovers. Trees planted at regular intervals and drought tolerant plants and groundcovers are proposed along the project site's frontage of Lenwood Road. Landscaping also would be concentrated at driveways, at the building's entries, in and around automobile parking areas, and in the landscape buffer adjacent to the southern property boundary. Prior to issuance of a building permit, the project applicant would be required to submit final planting and irrigation plans to the San Bernardino County for review and approval. The plans are required to comply with the "Landscaping Standards" from Chapter 83.10 of the San Bernardino County Development Code, which establishes requirements for landscape design, automatic irrigation system design, and water-use efficiency. The project's on-site stormwater drainage system would consist of catch basins, underground storm drainpipes, an underground infiltration basin, and bioswales/basin. The system is designed to collect, treat, and/or temporarily detain on-site stormwater runoff before discharging treated flows off site.

Site Access

Access to the site would be provided via numerous driveway entrances along Lenwood Road on the western boundary.

Off-Site Street Improvements

Under existing conditions, Lenwood Road is currently a two-lane north-south oriented roadway that is classified as a 104-foot wide Major Highway in the County's Circulation Master Plan. The project would improve the east side of Lenwood Road to its ultimate half-width along the project site's frontage including the construction of sidewalk, curb and gutter. This half section would contain two northbound travel lanes and half of a 12-foot center lane. In addition, the project would add 6 feet of paving to the west half of Lenwood Road to accommodate the balance of the center striped median lane and would repave the existing southbound travel lane, to the extent such paving

and re-paving have not already been completed by others. Further, the project will transition Lenwood Road back to the existing width and provide striping north of the project boundary to Agate Road.

Utility Improvements

Given the vacant, undeveloped nature of the project site, both wet and dry utilities, including domestic water, sanitary sewer, storm drainage, and electricity, would be extended onto the project site from nearby infrastructure.

Operations

Tenants for the project have not been identified, and logistics facility tenants are considered speculative. Business operations would be expected to be conducted within the enclosed buildings, with the exception of ingress and egress of trucks and passenger vehicles accessing the site; passenger and truck parking; the loading and unloading of trailers within designated truck courts/loading areas; and the internal and external movement of materials around the project site via forklifts, pallet jacks, yard hostlers, and similar equipment. It is anticipated that the facilities would be operational 24 hours per day, 7 days per week. The logistics component would not include cold storage or water-intensive uses.

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2 Regulatory Setting

2.1 Federal

2.1.1 Federal Endangered Species Act

The federal Endangered Species Act (FESA) of 1973 (16 USC 1531 et seq.), as amended, is administered by the U.S. Fish and Wildlife Service (USFWS) for most plant and animal species and by the National Oceanic and Atmospheric Administration National Marine Fisheries Service for certain marine species. This legislation is intended to provide a means to conserve the ecosystems upon which endangered and threatened species depend and provide programs for the conservation of those species, thus preventing the extinction of plants and wildlife. FESA defines an endangered species as "any species that is in danger of extinction throughout all or a significant portion of its range." A threatened species is defined as "any species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range." Under FESA, it is unlawful to "take" any listed species; "take" is defined as "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct."

Under FESA, USFWS may authorize incidental take of listed species under Section 7, which is generally available for projects that also require other federal agency permits or other approvals, and under Section 10, which provides for the approval of Habitat Conservation Plans on private property without any other federal agency involvement.

2.1.2 Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) prohibits the intentional and unintentional take of any migratory bird or any part, nest, or eggs of any such bird. Under the MBTA, "take" is defined as pursuing, hunting, shooting, capturing, collecting, or killing, or attempting to do so (16 USC 703 et seq.). Currently, the Migratory Birds Office considers nests that support eggs, nestlings, or juveniles to be active. Additionally, Executive Order 13186, Responsibilities of Federal Agencies to Protect Migratory Birds, requires that any project with federal involvement address impacts of federal actions on migratory birds with the purpose of promoting conservation of migratory bird populations (66 FR 3853–3856). Executive Order 13186 requires federal agencies to work with USFWS to develop a memorandum of understanding. USFWS reviews actions that might affect these species.

2.1.3 Clean Water Act

The Clean Water Act (CWA) is the major federal legislation governing water quality, providing guidance for the restoration and maintenance of the chemical, physical, and biological integrity of the nation's waters. Section 401 of the CWA requires an applicant for a federal license or permit that may result in a discharge of pollutants into waters of the United States to obtain state certification, thereby ensuring that the discharge will comply with provisions of the CWA. The State Water Resources Control Board (SWRCB) and Regional Water Quality Control Boards (RWQCB) administer the 401 certification program in California. Section 402 of the CWA establishes a permitting system for the discharge of any pollutant (except dredged or fill material) into waters of the United States. Section 404 establishes a permit program administered by the U.S. Army Corps of Engineers (USACE) that regulates the discharge of dredged or fill material into waters of the United States, including wetlands. USACE implementing regulations are found in 33 Code of Federal Regulations (CFR) Parts 320 to 332. Guidelines for implementation are

referred to as the Section 404(b)(1) Guidelines, which were developed by the U.S. Environmental Protection Agency (EPA) in conjunction with USACE (40 CFR 230). The guidelines allow the discharge of dredged or fill material into the aquatic ecosystem only if there is no practicable alternative that would have less adverse impacts.

Wetlands and Other Waters of the United States

The definition of waters of the United States establishes the geographic scope for authority under Section 404 of the CWA; however, the CWA does not specifically define waters of the United States, leaving the definition open to statutory interpretation and agency rulemaking. The definition of what constitutes "waters of the United States" (provided in 33 CFR Section 328.3[a]) has changed multiple times over the past few decades starting with the *United States v. Riverside Bayview Homes, Inc*. court ruling in 1985. Subsequent court proceedings, rule makings, and congressional acts in 2001 (*Solid Waste Agency of Northern Cook County v. United States Army Corps of Engineers*), 2006 (*Rapanos v. United States*), 2015 (Clean Water Rule), 2018 (suspension of the Clean Water Rule), 2019 (formal repeal of the Clean Water Rule), 2020 (Navigable Waters Protection Rule), and 2021 (*Pasqua Tribe et al v. United States Environmental Protection Agency* resulting in remand and vacatur of the Navigable Waters Protection Rule and a return to "the pre-2015 regulatory regime") have attempted to provide greater clarity to the term and its regulatory implementation. On December 30, 2022, the agencies announced the final Revised Definition of "Waters of the United States" rule (Rule) (88 CFR 3004–3144). The Rule was published in the Federal Register on January 18, 2023, and became effective on March 20, 2023, restoring federal jurisdiction over waters that were protected prior to 2015 under the CWA for traditional navigable waters, the territorial seas, and interstate waters, as well as upstream water resources that significantly affect those waters. The Rule represents a re-expansion of federal jurisdiction over certain water bodies and wetlands previously exempt pursuant to the 2020 Navigable Waters Protection Rule. The Rule also considers various subsequent court decisions including two notable Supreme Court decisions.

There are two key changes that the Rule incorporates. Firstly, the Rule reinstates the "Significant Nexus" test. The Significant Nexus test refers to waters that either alone, or in combination with similarly situated waters in the region, significantly affect the chemical, physical, or biological integrity of traditional navigable waters, interstate waters, or the territorial seas (86 CFR 69372-69450). The Significant Nexus test attempts to establish a scientific connection between smaller water bodies, such as ephemeral or intermittent tributaries, and larger, more traditional navigable waters, such as rivers. Significant Nexus evaluations take into consideration hydrologic and ecologic factors including, but not limited to, volume, duration, and the frequency of surface water flow in the resource, its proximity to a traditional navigable water, and the functions performed by the resource on adjacent wetlands. Second, the Rule adopts the "Relatively Permanent Standard" test. To meet the Relatively Permanent Standard, water bodies must be relatively permanent, standing, or continuously flowing and have a continuous surface connection to traditional navigable waters.

On May 25, 2023, the Supreme Court issued its long-anticipated decision in *Sackett v. EPA*, in which it rejected the U.S. EPA's claim that "waters of the United States," as defined in the CWA, includes wetlands with an ecologically significant nexus to traditional navigable waters. The Supreme Court held that only those wetlands with a continuous surface water connection to traditional navigable waterways would be afforded federal protection under the CWA. Specifically, to assert jurisdiction over an adjacent wetland under the CWA, a party must establish that (1) the adjacent body of water constitutes waters of the United States (i.e., a relatively permanent body of water connected to traditional interstate navigable waters) and (2) the wetland has a continuous surface connection with that water, making it difficult to determine where the water ends and the wetland begins. On August 29, 2023, the EPA and USACE announced the final rule amending the 2023 definition of "waters of the United States," conforming

with the *Sackett v. EPA* decision. Some of the key changes include removing the significant nexus test from consideration when identifying tributaries and other waters as federally protected and revising the adjacency test when identifying federally jurisdictional wetlands. Under the EPA's new "waters of the United States" definition, a "waters of the United States" is a relatively permanent, standing, or continuously flowing body of water that has an apparent surface connection to a "traditionally navigable water" to fall within federal purview. The new rule applies to wetlands and streams throughout the U.S. Although the Sackett opinion did not specifically reference streams, the EPA's new rule extends the "continuous surface connection" standard to streams, thereby removing non-permanent, ephemeral streams that do not meet these standards from federal jurisdiction.

The term "wetlands" (a subset of waters of the United States) is defined in 33 CFR, Section 328.3(c)(16), as "areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas." In the absence of wetlands, the limits of USACE jurisdiction in non-tidal waters, such as intermittent streams, extend to the "ordinary high water mark," which is defined in 33 CFR 328.3(c)(7) as "that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas."

2.2 State

2.2.1 California Endangered Species Act

The California Endangered Species Act (CESA) (California Fish and Game Code Sections 2050–2068) provides protection and prohibits the take of plant, fish, and wildlife species listed by the State of California. Unlike FESA, under CESA, state-listed plants have the same degree of protection as wildlife and take is prohibited for both listed and candidate species. Take authorization may be obtained by a project applicant from the California Department of Fish and Wildlife (CDFW) under CESA Section 2081, which allows take of a listed species for educational, scientific, or management purposes. In this case, private developers consult with CDFW to develop a set of measures and standards for managing the listed species, including full mitigation for impacts, funding of mitigation implementation, and monitoring of mitigation measures.

On October 21, 2019, the California Fish and Game Commission received a petition from the Center for Biological Diversity to list western Joshua tree (*Yucca brevifolia*) (Center for Biological Diversity 2019).[1] On November 1, 2019, the California Fish and Game Commission referred the petition to CDFW for evaluation. CDFW evaluated the scientific information presented in the petition and other relevant information possessed by CDFW at the time of review and prepared a report for submittal to the California Fish and Game Commission. The report states that CDFW recommended that the California Fish and Game Commission accept the petition for further consideration of western Joshua tree under CESA. On September 22, 2020, the California Fish and Game Commission approved the petition to accept the candidacy proposal for western Joshua tree, effective October 9, 2020 (CDFW 2020a).

[1] On October 21, 2019, the California Fish and Game Commission received a petition to list the following as threatened under the California Endangered Species Act: (1) western Joshua tree (*Yucca brevifolia*) throughout its California range or, in the event the Commission determines that listing of *Yucca brevifolia* throughout its California range is not warranted, then (2) the western Joshua tree population within the northern part of western Joshua tree's California range or (3) the western Joshua tree population within the southern part of western Joshua tree's California range.

When a plant or wildlife species is granted candidacy under CESA, the species is given the same protection as a threatened or endangered species while the California Fish and Game Commission evaluates whether formal listing as threatened or endangered is warranted. Take or removal of western Joshua trees would require a 2081 ITP from CDFW.

2.2.2 California Fish and Game Code

Fully Protected Species

Sections 3511, 4700, 5050, and 5515 of the California Fish and Game Code outline protection for fully protected species of mammals, birds, reptiles, amphibians, and fish. Species that are fully protected by these sections may not be taken or possessed at any time. CDFW cannot issue permits or licenses that authorize the "take" of any fully protected species, except under certain circumstances, such as scientific research and live capture and relocation of such species pursuant to a permit for the protection of livestock. Furthermore, it is the responsibility of CDFW to maintain viable populations of all native species. Toward that end, CDFW has designated certain vertebrate species as Species of Special Concern because declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction.

California Department of Fish and Wildlife Species of Special Concern

CDFW maintains a list of vertebrate animal species considered of "special concern" because declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction. A species of special concern is a species, subspecies, or distinct population of an animal native to California that currently satisfies one or more of the following (not necessarily mutually exclusive) criteria:

- Is extirpated (no longer present) from the state or, in the case of birds, is in its primary seasonal or breeding role
- Is listed as threatened or endangered federally, but not by the state
- Meets the state definition of threatened or endangered, but has not formally been listed
- Is experiencing, or formerly experienced, serious noncyclical population declines or range retractions (not reversed) that, if continued or resumed, could qualify it for threatened or endangered status by the state
- Has naturally small populations exhibiting high susceptibility to risk from any factor(s) that, if realized, could lead to declines that would qualify it for threatened or endangered status by the state.

California Fish and Game Code, Section 4150

California Fish and Game Code Section 4150 states a mammal occurring naturally in California that is not a game mammal, fully protected mammal, or fur-bearing mammal is a non-game mammal. A non-game mammal may not be taken or possessed under this code. All bat species occurring naturally in California are considered non-game mammals and are therefore prohibited from take as stated in California Fish and Game Code Section 4150.

Sections 1600–1616

CDFW jurisdiction includes ephemeral, intermittent, and perennial watercourses (including dry washes) and lakes characterized by the presence of definable bed and banks and existing fish or wildlife resources. CDFW takes

jurisdiction to the top of bank of the stream or the limit of the adjacent riparian vegetation, which may include oak woodlands in canyon bottoms. Historical court cases have further extended CDFW jurisdiction to include watercourses that seemingly disappear but reemerge elsewhere. Under the CDFW definition, a watercourse need not exhibit evidence of an ordinary high-water mark to be claimed as jurisdictional. CDFW does not have jurisdiction over ocean or shoreline resources.

Under California Fish and Game Code Sections 1600–1616, CDFW has the authority to regulate work that will substantially divert or obstruct the natural flow of, or substantially change or use any material from, the bed, channel, or bank of any river, stream, or lake. CDFW also has the authority to regulate work that will deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake. This regulation takes the form of a requirement for a Lake or Streambed Alteration Agreement and is applicable to all projects. Applications to CDFW must include a complete certified California Environmental Quality Act (CEQA) document.

California Native Plant Protection Act

The Native Plant Protection Act of 1977 (Sections 1900 et seq. of the California Fish and Game Code) directed CDFW to carry out the Legislature's intent to "preserve, protect and enhance rare and endangered plants in this State." The Native Plant Protection Act gave the California Fish and Game Commission the power to designate native plants as "endangered" or "rare," and protect endangered and rare plants from take. CESA expanded on the original Native Plant Protection Act and enhanced legal protection for plants, but the Native Plant Protection Act remains part of the California Fish and Game Code. To align with federal regulations, the categories of "threatened" and "endangered" species were added to CESA. All "rare" animals in CESA were converted to "threatened," but this did not change for rare plants. Thus, there are three listing categories for plants in California: rare, threatened, and endangered. Because rare plants are not included in CESA, mitigation measures for impacts to rare plants are specified in a formal agreement between CDFW and project proponents.

Nesting Birds

Section 3503 of the California Fish and Game Code states that it is unlawful to take, possess, or needlessly destroy the nests or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto. Section 3503.5 protects all birds of prey (raptors) and their eggs and nests. Section 3511 states that fully protected birds or parts thereof may not be taken or possessed at any time. Section 3513 states that it is unlawful to take or possess any migratory non-game bird as designated in the MBTA.

2.2.3 California Environmental Quality Act

CEQA requires identification of a project's potentially significant impacts on biological resources, and ways that such impacts can be avoided, minimized, or mitigated. CEQA also provides guidelines and thresholds for use by lead agencies for evaluating the significance of proposed impacts.

The State of California CEQA Guidelines (CEQA Guidelines) Section 15380(b)(1) defines endangered animals or plants as species or subspecies whose "survival and reproduction in the wild are in immediate jeopardy from one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, disease, or other factors." A rare animal or plant is defined in CEQA Guidelines Section 15380(b)(2) as a species that, although not presently threatened with extinction, exists "in such small numbers throughout all or a significant portion of its range that it may

become endangered if its environment worsens; or … [t]he species is likely to become endangered within the foreseeable future throughout all or a significant portion of its range and may be considered 'threatened' as that term is used in the federal Endangered Species Act." Additionally, an animal or plant may be presumed to be endangered, rare, or threatened if it meets the criteria for listing, as defined further in CEQA Guidelines Section 15380(c).

CDFW has developed a list of "Special Species" as "a general term that refers to all of the taxa the California Natural Diversity Database (CNDDB) is interested in tracking, regardless of their legal or protection status." This is a broader list than those species that are protected under FESA, CESA, and other California Fish and Game Code provisions, and includes lists developed by other organizations, including, for example, the Audubon Watch List. Guidance documents prepared by other agencies, including the Bureau of Land Management Sensitive Species and USFWS Birds of Special Concern, are also included on this CDFW Special Species list. Additionally, CDFW has concluded that plant species listed as California Rare Plant Rank (CRPR) 1 and 2 by the California Native Plant Society (CNPS), and potentially some CRPR 3 plants, are covered by CEQA Guidelines Section 15380.

Section IV, Appendix G, Environmental Checklist Form, of the CEQA Guidelines requires an evaluation of impacts to "any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service."

2.2.4 Porter–Cologne Water Quality Control Act

Pursuant to provisions of the Porter–Cologne Water Quality Control Act, the RWQCBs regulate discharging waste, or proposing to discharge waste, within any region that could affect a water of the state (California Water Code Section 13260[a]). The SWRCB defines a water of the state as "any surface water or groundwater, including saline waters, within the boundaries of the state" (California Water Code, Section 13050[e]). All waters of the United States are waters of the state. Waters of the state include wetlands, and the SWRCB definition of wetlands includes the following:

1. Natural wetlands.
2. Wetlands created by modification of a surface water of the state.
3. Artificial wetlands that meet any of the following criteria:
    a. Approved by an agency as compensatory mitigation for impacts to other waters of the state, except where the approving agency explicitly identifies the mitigation as being of limited duration.
    b. Specifically identified in a water quality control plan as a wetland or other water of the state.
    c. Resulted from historic human activity, is not subject to ongoing operation and maintenance, and has become a relatively permanent part of the natural landscape.
    d. Greater than or equal to 1 acre in size unless the artificial wetland was constructed and is currently used and maintained, primarily for one or more of the following purposes: industrial or municipal wastewater treatment or disposal; settling of sediment; detention, retention, infiltration, or treatment of stormwater runoff and other pollutants or runoff subject to regulation under a municipal, construction, or industrial permitting program; treatment of surface waters; agricultural crop irrigation or stock watering; fire suppression; industrial processing or cooling water; active surface mining – even if the site is managed

> for interim wetlands functions and values; log storage; treatment, storage, or distribution of recycled water; maximizing groundwater recharge (this does not include wetlands that have incidental groundwater recharge benefits); or fields flooded for rice growing.

Wetlands that may not meet all of USACE's wetland delineation criteria are considered wetland waters of the state if, "under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation" (SWRCB 2019). Additionally, aquatic resources that USACE determines to not be waters of the United States because they lack a significant nexus to a traditional navigable water or are above the ordinary high-water mark limit of federal jurisdiction may also be considered waters of the state. If a CWA Section 404 permit is not required for a project, the RWQCB may still require a permit (waste discharge requirements) for impacts to waters of the state under the Porter–Cologne Water Quality Control Act.

2.2.5 California Desert Native Plants Act

The purpose of the California Desert Native Plants Act (CDNPA) is to protect certain species of California desert native plants from unlawful harvesting on both public and privately owned lands. The CDNPA only applies within the boundaries of Imperial, Inyo, Kern, Los Angeles, Mono, Riverside, San Bernardino, and San Diego Counties. Within these counties, the CDNPA prohibits the harvest, transport, sale, or possession of specific native desert plants unless a person has a valid permit or wood receipt and the required tags and seals. The appropriate permits, tags, and seals must be obtained from the sheriff or commissioner of the county where collecting will occur, and the county will charge a fee. More information on the CDNPA, including the species protected under the law, is available by reading the provisions of the law.

2.3 Local

2.3.1 San Bernardino County Countywide Plan/Policy Plan and Development Code

The San Bernardino County Countywide Plan/Policy Plan contains the goals and policies that guide future development within the County (San Bernardino County 2022). The County is divided into three distinct geographic planning regions: Valley, Mountains, and Desert. The project site occurs within the Desert Planning Region of the County. The Desert Region is the largest of the three geographic regions located north of the San Bernardino and San Gabriel Mountains and extends east to the Arizona state line. Kern and Los Angeles counties are located to the west, with Inyo County and the Nevada state line to the north. Within this region there is an assemblage of low mountain ranges and desert floors, with the most conspicuous water features being the Mojave and Colorado Rivers. The Desert Planning Region has two goals and policies: (1) to preserve open lands by working with the Bureau of Land Management and (2) to ensure that off-highway-vehicle use is managed to protect environmentally sensitive resources.

The County Policy Plan contains the long-term goals and policies that will guide County decisions, investments, and improvements toward achieving the Countywide Vision and serves as the County's General Plan for the unincorporated areas. The Countywide Plan/Policy Plan's Natural Resources Element describes the purpose and principles, as well as outlines the goals and policies for resources, including air quality; water quality; open space,

parks, and recreation; scenic resources; biological resources; mineral resources; and agriculture and soils. The project would also need to comply with the San Bernardino County Development Code (Development Code). The Development Code (San Bernardino County 2014) implements the goals and policies of the Countywide Plan/Policy Plan. Chapter 88.01.060, Desert Native Plant Protection, of the Development Code is a subset of the Plant Protection and Management Code (Chapter 88.01 of the Development Code) and focuses on the conservation of specified desert plant species. Chapter 88.01.060 specifically states "Removal of all plants protected or regulated by the Desert Native Plants Act (Food and Agricultural Code Section 80001 et seq.) shall comply with the provisions of the Act before the issuance of development permit or approval of a land use application. All members of the family Cactaceae (Cactus Family) require a permit for harvesting under the Desert Native Plants Act." This ordinance contains provisions for the protection of certain desert native plants as follows:

- The following desert native plants with stems 2 inches or greater in diameter or 6 feet or greater in height:
  - *Psorothamnus spinosus* (smoketree).
  - All species of the genus *Prosopis* (mesquites).
- All species of the family Agavaceae (century plants, nolinas, yuccas).
- Creosote Rings, 10 feet or greater in diameter.
- All Joshua trees.
- Any part of any of the following species, whether living or dead:
  - *Olneya tesota* (desert ironwood).
  - All species of the genus *Prosopis* (mesquites).
  - All species of the genus *Cercidium* (palo verdes).

Section 88.01.080 of the Development Code is a subset of the Plant Protection and Management Code and is focused on promoting the health of riparian corridors in relation to their impact on waterways within the region, their use as habitat by various plant and wildlife species, and their stabilization of stream banks. Chapter 88.02 of the Development Code provides a regulatory framework to promote the health of soil communities within the County, limit soil erosion potential, and preserve air quality. This code primarily regulates ground-disturbing activities within the County.

3 Methods

Data regarding biological resources present within the approximately 102.15-acre biological survey area (BSA), which consists of the project site and off-site areas, were obtained through review of pertinent literature, field reconnaissance, habitat assessments, and protocol/focused surveys, which are described in detail in this report. For the purposes of this report, special-status resources are defined as follows:

- Special-status plant species include the following:
  - Species designated as either rare, threatened, or endangered by CDFW or USFWS and protected under either CESA (California Fish and Game Code Section 2050 et seq.) or FESA (16 USC 1531 et seq.)
  - Species that are candidate species being considered or proposed for listing under FESA or CESA
  - Species that are included on the CDFW Special Vascular Plants, Bryophytes, and Lichens List (CDFW 2023a) or species with a CRPR of 1 or 2 in the CNPS Inventory of Rare and Endangered Plants of California (CNPS 2026a)
  - Species protected under the CDNPA
- Special-status wildlife species include the following:
  - Species designated as either rare, threatened, or endangered by CDFW or USFWS and protected under either CESA (California Fish and Game Code Section 2050 et seq.) or FESA (16 USC 1531 et seq.)
  - Species that are candidate species being considered or proposed for listing under FESA or CESA
  - Species that are included on the CDFW Special Animals List (CDFW 2023b)
  - Species designated by California Fish and Game Code Section 4000 as fur-bearing mammals
- Special-status vegetation communities are those designated as sensitive by CDFW (i.e., state rankings of 1, 2, or 3)

3.1 Literature Review

Prior to conducting a field assessment, a literature search and database review were conducted by Dudek biologists to evaluate the natural resources found or potentially occurring within the BSA. The database review included the most recent versions of the CNDDB, special-status species lists (CDFW 2025, 2026b, 2026c), and the CNPS Inventory of Rare and Endangered Plants of California (CNPS 2026a). These databases were reviewed to identify sensitive biological resources present or potentially present for the U.S. Geological Survey 7.5-minute quadrangle on which the BSA is located (Barstow) and the eight surrounding quadrangles (Hinkley, Nebo, Mud Hills, Lane Mountain, Water Valley, Hodge, Barstow SE, and Daggett). The USFWS occurrence data and critical habitat databases were queried using geographic information system (GIS) software based on a 5-mile buffer around the BSA. The BSA was investigated for the potential for historical drainages and aquatic features based on a review of U.S. Geological Survey topographic maps (1:24,000-scale), aerial photographs, the USFWS National Wetland Inventory database (USFWS 2023a), and the Natural Resource Conservation Service's Web Soil Survey (USDA 2023a).

3.2 Field Surveys

Dudek Biologists Callie Amoaku and Zarina Pringle conducted an initial reconnaissance-level field survey of the project site to document biological resources, which included vegetation community and land cover mapping, on January 23, 2023. Additional field surveys within the project site included protocol presence/absence surveys for Mojave Desert tortoise (*Gopherus agassizii*) (Appendix A), a rare plant and desert native plant survey, and Mohave ground squirrel (*Xerospermophilus mohavensis*) protocol level surveys (Appendix B). In January 2026, additional off-site areas were added to the project, and a reconnaissance-level field survey and protocol presence/absence survey for Mojave desert tortoise was conducted within the off-site areas.

Table 1 lists the dates, focus, scope, conditions, and personnel for each survey. Photos of the BSA can be found in Appendix C.

Table 1. Survey Conditions

Date	Biologists	Type of Survey	Times	Weather Conditions
01/23/2023	C. Amoaku Z. Pringle	Biological Reconnaissance Survey	10:09 a.m.–1:00 p.m.	48°F–60°F; 0%-10% cloud cover; 0–19 mph wind
01/24/2023	M. Grubb R. Thomas	Desert Tortoise Protocol Survey	7:00 a.m.–4:00 p.m.	33°F–60°F; 0% cloud cover; 0–2 mph wind
01/25/2023	M. Grubb R. Thomas	Desert Tortoise Protocol Survey	7:00 a.m.–4:00 p.m.	34°F–56°F; cloud cover and wind not recorded
05/22/2023	E. Bergman R. Swick	Rare Plants and Desert Native Plant Survey	10:37 a.m.–3:58 p.m.	83°F–96° F; 10%–40% cloud cover; 0–4 mph wind
3/16/2023–3/20/2023	Dipodomys Ecological Consulting	Mojave Ground Squirrel Survey	Varied	Varied
5/21/2023–5/25/2023	Dipodomys Ecological Consulting	Mojave Ground Squirrel Survey	Varied	Varied
1/22/2026	S. Greely	Biological Reconnaissance Survey and Desert Tortoise Protocol Survey for off-site areas	12:00 p.m.–1:48 p.m.	58°F–59°F; 90%–100% cloud cover; 0–2 mph wind

Notes: mph = miles per hour.

3.2.1 Vegetation Community and Land Cover Mapping

Dudek biologists conducted vegetation mapping within the project site on January 23, 2023. Vegetation mapping for the off-site areas was conducted on January 22, 2026. The survey date, biologists, and weather conditions are included in Table 1. Dudek biologists used CDFW's Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (CDFW 2018) and California Natural Communities List (CDFW 2025), also referred to as the Natural Communities List, based on A Manual of California Vegetation, Online Edition (CNPS 2026b), to map the entire BSA. These classification systems focus on a quantified, hierarchical approach that includes both floristic (plant species) and physiognomic (community structure and form) factors as currently

observed (as opposed to predicting climax or successional stages). Vegetation communities and land covers were delineated to the vegetation alliance level and, where appropriate, the association level. Some modifications, such as the Preliminary Descriptions of the Terrestrial Natural Communities of California (Holland 1986; Oberbauer et al. 2008), were incorporated to accommodate the lack of conformity of the observed communities to those included in these references.

Vegetation mapping was conducted on foot to visually cover 100% of the BSA. Vegetation communities and land cover types were mapped in the field using an Esri ArcGIS mobile application. Vegetation communities were classified based on site factors, descriptions, distribution, and characteristic species present within an area. Information was recorded, including dominant species and associated cover classes, aspect, canopy height, and visible disturbance factors.

Minimum mapping units were established to standardize the scale and appropriate evaluation of stands of vegetation, as recommended by CDFW (2020b). Mapping standards call for a minimum mapping unit of not greater than 10 acres, but usually 1 or 2 acres, for upland natural communities not considered sensitive and 0.25 acres for sensitive vegetation communities and wetland or riparian vegetation communities. Visible disturbance factors were also noted during vegetation mapping.

Following completion of the fieldwork, Dudek GIS analysts digitized the vegetation boundaries as delineated by the field biologists and created a GIS coverage for vegetation communities and land covers.

3.2.2 Flora

Latin and common names for plant species with a CRPR follow the CNPS Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2026a). For plant species without a CRPR, Latin names follow the Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California (Jepson Flora Project 2023) and common names follow the California Natural Communities list (CDFW 2025) or the U.S. Department of Agriculture's Natural Resources Conservation Service PLANTS Database (USDA 2023b). Plant species observed within the BSA are provided in Appendix D, Plant Compendium.

3.2.3 Fauna

All wildlife species detected during field surveys by sight, vocalizations, burrows, tracks, scat, or other signs were recorded. The site was visually scanned with and without binoculars to identify wildlife. Latin and common names of animals follow Crother (2017) for reptiles and amphibians, American Ornithological Society (AOS 2018) for birds, and the Mammal Diversity Database (ASM 2021) for mammals. Wildlife species observed within the BSA are provided in Appendix E, Wildlife Compendium.

3.2.4 Special-Status and Regulated Resources

3.2.4.1 Rare Plant and Desert Native Plant Survey

Project Site

Based on the results of the literature review discussed in Section 3.1, at least ten (10) species with a CRPR of 1B (i.e., plants rare, threatened, or endangered in California and elsewhere) have records that occur in the U.S.

Geological Survey quadrangle within which the project site occurs, or have records that occur in the surrounding eight (8) quadrangles, indicating the potential for suitable habitat to be present within the project site for some of these species. As such, Dudek botanists conducted a rare plant survey on May 22, 2023, within the project site.

Dudek conducted a desert native plant survey within the project site concurrently with the rare plant survey. Field survey methods and mapping of rare plants and desert native plants conformed to the CNPS Botanical Survey Guidelines (CNPS 2001), Protocols for Surveying and Evaluating Impacts to Special-Status Native Plant Populations and Sensitive Natural Communities (CDFW 2018), and General Rare Plant Survey Guidelines (Cypher 2002). The desert native plant survey was conducted in accordance with the CDNPA. The survey dates, biologists, and weather conditions are included in Table 1. All desert native plant target species are conspicuous shrubs that would have been identifiable during the survey and are as follows:

1. All species of the family Agavaceae (century plants, nolinas, yuccas).
2. All species of the family Cactaceae (cacti), except for the plants listed in subdivisions (b) and (c) of Section 80072 which may be harvested under a permit obtained pursuant to that section.
3. All species of the family Fouquieriaceae (ocotillo, candlewood).
4. All species of the genus *Prosopis* (mesquites).
5. All species of the genus *Cercidium* (palos verdes).
6. *Acacia greggii* (catclaw).
7. *Atriplex hymenelytra* (desert-holly).
8. *Dalea spinosa* (smoke tree).
9. *Olneya tesota* (desert ironwood), including both dead and live desert ironwood.

Off-Site Areas

Dudek conducted vegetation mapping and a habitat assessment in the off-site areas on January 22, 2026. A single biologists walked one transect north and one transect south within all off-site areas. The habitat assessment included an assessment of whether the off-site areas would warrant focused surveys for rare plants and desert native plants.

3.2.4.2 Desert Tortoise Protocol-Level Survey

On April 2, 1990, the Mojave population of the desert tortoise was listed by USFWS as threatened (55 FR 12178–12191). Proposed actions within the range of the desert tortoise fall under purview of FESA. Because the project site lies within the range for desert tortoise (CDFW 2026d) and in the Western Recovery Unit (USFWS 2011), Dudek conducted focused surveys for Mojave desert tortoise to determine the status of the species within the project site. To evaluate the impacts to Mojave desert tortoise, protocol surveys were conducted in accordance with the Pre-Project Field Survey Protocol for Potential Desert Tortoise Habitats section included in Preparing for Any Action That May Occur within the Range of the Mojave Desert Tortoise (*Gopherus agassizii*) (USFWS 2018) (see Mojave Desert Tortoise Data Sheets in Appendix A). Following the small project survey protocol, Dudek biologists conducted the survey in January 2023 for the project site. A second Mojave desert tortoise small project survey was conducted in the off-site areas in January 2026. Both survey efforts were conducted by walking approximately 10-meter-wide transects for 100% coverage of the entire BSA (Figure 2, Survey Areas).

3.2.4.3 Mohave Ground Squirrel Habitat Assessment and Protocol Survey

Dipodomys Ecological Consulting biologists conducted an initial visual survey within the project site on March 14, 2023, for Mohave ground squirrel. The visual survey was conducted by driving and walking throughout the project site to identify suitable habitat for Mohave ground squirrel, which is consistent with the methods described within the 2010 CDFW Mohave Ground Squirrel Survey Guidelines (CDFW 2010). Field methods are described in detail in Appendix B. Following an initial visual survey, two 5-day live trapping surveys for Mohave ground squirrel were conducted from March 16 to March 20, 2023 and from May 21 to May 25, 2023, within the project site.[2] The methods used for this trapping effort followed the most recent CDFW Mohave Ground Squirrel Survey Guidelines issued in 2010 (CDFW 2010). Camera trappings consisted of five camera stations in locations designated by CDFW; methods are described in detail in Appendix B.

3.2.5 Survey Limitations

Limitations of the surveys include a diurnal bias and the absence of trapping for reptiles, amphibians, and small mammals at night. The surveys were conducted during the daytime to maximize the detection of most wildlife. Most birds are active in the daytime, so diurnal surveys maximize the number of bird observations. Conversely, diurnal surveys usually result in few observations of mammals, many of which may only be active at night. In addition, many species of reptiles and amphibians are secretive in their habits and are difficult to observe using standard meandering transects.

[2] Dipodomys Ecological Consulting conducted live trapping and camera stations across two 50-trap 10 × 10 survey grids, referred to as the northern and southern project parcels.

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4 Environmental Setting

The purpose of this section is to describe the general existing conditions within, and adjacent to, the BSA (i.e., project site and off-site areas) to document the baseline conditions for this report and subsequent analysis.

4.1 Climate

The BSA is west of the City of Barstow within unincorporated San Bernardino County. The average annual temperature in Barstow ranges from 47.3°F to 88.1°F (ACIS 2026). The average annual precipitation for Barstow is 4.19 inches (ACIS 2026). Periods of extended drought are common throughout the region.

4.2 Geology and Topography

The BSA is located at the southern edge of the Mojave Desert on alluvial plains derived from the Mojave River. The topography gradually increases from north to south, toward the hills situated between Interstate 15 and Highway 247.

The BSA is composed of undeveloped vacant lands bisected by dirt roads. The topography within the BSA consists of a gradually sloping plain. Elevation ranges from approximately 2,197 feet above mean sea level (amsl) in the northern portion of the BSA to 2,272 feet amsl in the southern portion of the BSA. Adjacent land uses include large-lot rural residential areas and Agate Road to the north, residential areas and Birch Road to the east, residential areas and Jasper Road to the south, and Lenwood Road and undeveloped areas to the west.

4.3 Soils

According to the U.S. Department of Agriculture Natural Resource Conservation Service's Web Soil Survey (USDA 2023a), the BSA consists of seven soil map units: Cajon sand (2% to 9% slopes); Joshua loam (2% to 5% slopes); Rosamond loam, saline-alkali; Victorville sandy loam; Villa loamy sand; dune lands; and rock outcrop-lithic torriorthents complex (15% to 50% slopes). These soil map units are presented in Figure 3, Soils, and the component soil series, where applicable, are described below. .

Cajon Series consists of very deep, somewhat excessively drained soils that formed in sandy alluvium from dominantly granitic rocks. The Cajon soils are on recent fans and river terraces at elevations of 200 to 4,300 feet amsl. Creosote bush (*Larrea tridentata*), saltbush (*Atriplex* sp.), western Joshua trees, and annual grasses and forbs are common vegetation found on these soils (USDA 2023a).

Joshua Series consists of moderately deep, well drained soils that formed in material derived from mixed sources. The Joshua soils are on old gravelly erosion pavement covered terraces more typically found at elevations of 2,600 to 3,000 feet amsl. Sparse stands of creosote bush, white bursage (*Ambrosia dumosa*), yucca species, saltbush, and annual grasses and forbs are common vegetation found on these soils (USDA 2023a).

Rosamond Series consists of deep, well drained soils that form in weathered material, primarily from granitic alluvium. These soils are found in the lower margin of alluvial fans, typically at elevations from 2,200 to 2,900.

Native vegetation typically found within these soils includes rabbit brush (*Ericameria nauseosa*), big sagebrush (*Artemisia tridentata*), as well as *Atriplex spp*. along with annual and perennial grass and weeds (USDA 2023a).

Victorville Series consists of deep, moderately well drained soils that formed in mixed alluvium dominantly from granitic sources. The Victorville soils are on low river terraces and flood pains at elevations of 2,200 to 2,800 feet amsl. Rabbitbrush (*Polypogon monspeliensis*), salt grass (*Distichlis spicata*), annual weeds, grass, and cottonwood trees (*Populus* spp.) are common vegetation found on these soils (USDA 2023a).

Villa Series consists of deep, moderately well drained soils that formed in alluvium derived from granitic rock. Villa soils are on river flood plains at elevations of 2,100 to 2,800 feet amsl. Saltbush, mesquite, creosote bush, and annual grasses and forbs are common vegetation found on these soils (USDA 2023a).

4.4 Surrounding Land Uses

The BSA consists of primarily vacant, undeveloped land. The BSA has had multiple dirt roads running through it since the mid-1990s (Google Earth 2023), some of which appeared to continue to experience frequent use at the time of the 2023 site visits. The BSA is bordered to the north by undeveloped land and scattered residential areas, to the east by vacant land and residential areas, to the south by residential areas, and to the west by Lenwood Road and open space. Specific land uses in the immediate vicinity include the following:

- North: Agate Road and rural residential areas
- East: Vacant land and rural residential areas
- South: Residential areas
- West: Lenwood Road and vacant land

In the broader BSA vicinity, development includes both residential and agricultural uses, as well as U.S. Highways 66 and 58 and Interstate 15.

4.5 Watersheds and Hydrology

The BSA occurs within the southwestern portion of the Mojave subbasin, Hydrologic Unit Code 18090208 (Figure 4, Hydrologic Setting). The Mojave subbasin comprises approximately 4,500 square miles and is entirely within San Bernardino County. The primary geographic and surface hydrologic feature of the watershed is the Mojave River, which flows north for approximately 120 miles until it reaches Silver Dry Lake near the community of Baker. Some reaches of the Mojave River flow underground in the confined riverbed channel. The Mojave River is approximately 0.5 miles northwest of the BSA; however, there are no jurisdictional water features within the BSA.

The BSA occurs within the northern portion of the Lenwood-Mojave River Subwatershed (Hydrologic Unit Code 180902081102) of the Daggett Wash-Mojave River watershed (Hydrologic Unit Code 1809020811). The Daggett Wash-Mojave watershed comprises approximately 189 square miles (120,960 acres) and is in the City of Barstow in the high desert part of southwestern San Bernardino County, approximately 70 miles northeast of San Bernardino. The Mojave River flows northeast underground within the Daggett Wash-Mojave River watershed. Additionally, small ephemeral streams in the hills surrounding Barstow contribute a small amount of water to the watershed after storm events.

5 Results

This section describes the results of the literature review, field surveys, and habitat assessments within the BSA.

5.1 Vegetation Communities and Land Covers

Two vegetation communities and two land cover types were mapped within the BSA (Table 2). The spatial distribution of the vegetation communities and land covers are presented in Figure 5, Biological Resources.

State rankings of 1, 2, or 3 are considered high priority for inventory or special status and impacts to these communities typically require mitigation. There are no vegetation communities considered sensitive biological resources by CDFW under CEQA (CDFW 2025) within the BSA.

Table 2. Vegetation Communities and Land Cover Types within the BSA

Floristic Alliance	Association[1]	State Ranking[2]	Project Site (acres)	Off-Site (acres)	Total BSA (acres)
Allscale Scrub	*Atriplex polycarpa* sparse playa	G4/S4	49.38	0.001	49.38
Creosote Bush–Allscale Scrub	*Larrea tridentata–Atriplex polycarpa*	G5/S5	49.65	0.064	49.71
Disturbed Habitat	N/A	GNR/SNR	0.820	1.12	1.94
Urban/Developed	N/A	GNR/SNR	0.007	1.11	1.12
		Total[3]	**99.85**	**2.30**	**102.15**

Notes: N/A = not applicable.

1 The spatial distribution of the vegetation communities and land covers are presented in Figure 5, Biological Resources.

2 The conservation status of a vegetation community is designated by a number from 1 to 5, preceded by a letter reflecting the appropriate geographic scale of the assessment (G = global, N = national, and S = subnational). The numbers have the following meaning (NatureServe 2023):
1 = critically imperiled
2 = imperiled
3 = vulnerable to extirpation or extinction
4 = apparently secure
5 = demonstrably widespread, abundant, and secure
GNR = unranked, global rank not yet assessed
SNR = unranked, subnational rank not yet assessed

3 Total acreages may not sum exactly due to rounding.

5.1.1 Allscale Scrub (36.340.00)

The allscale scrub (*Atriplex polycarpa*) shrubland alliance includes allscale scrub (*Atriplex polycarpa*) as the dominant species in the shrub canopy. Shrubs are less than 3 meters (9 feet 8 inches) tall, with an open to continuous canopy; emergent trees may be present but at low cover (CNPS 2026b). Species associated with this alliance include white bursage, cheesebush (*Ambrosia salsola*), four-wing saltbush (*Atriplex canescens*), alkali goldenbush (*Isocoma acradenia*), and creosote bush (CNPS 2026b).

The allscale scrub alliance is ranked by the CDFW as a G4S4 alliance. This ranking indicates that globally and within California the alliance is apparently secure (CDFW 2026c; NatureServe 2023); therefore, the community is not considered sensitive under CEQA.

The only association within the alliance mapped on site was *Atriplex polycarpa* sparse playa.

Associated species observed within this alliance in the field include allscale scrub, pale desert thorn (*Lycium pallidum*), with some four-wing salt bush and shadscale (*Atriplex confertifolia*) present at lower cover. Allscale scrub covers approximately 50% of the BSA and is comprised of a large patch that extends from the central to the northern portion of the BSA.

5.1.2 Creosote Bush (33.010.00)

Creosote bush–allscale scrub (*Larrea tridentata–Atriplex polycarpa*) shrubland alliance includes creosote bush as the dominant or co-dominant species in the shrub canopy. Creosote bush has an open shrub canopy of less than 3 meters (9 feet 8 inches) tall, with an open to intermittent herbaceous layer of annuals and perennial grasses (CNPS 2026b). Species associated with the creosote bush alliance include white bursage, cheesebush, allscale scrub, shadscale, Nevada joint fir (*Ephedra nevadensis*), and Anderson's boxthorn (*Lycium andersonii*). Emergent trees such as honey mesquite (*Prosopis glandulosa*), and Joshua tree may be present at low cover (CNPS 2026b).

The creosote bush alliance is ranked by the CDFW as a G5S5 alliance. This ranking indicates that globally and within California the alliance is widespread, abundant, and secure (CDFW 2026c; NatureServe 2023); therefore, the community is not considered sensitive under CEQA.

The only association within the alliance mapped on site was *Larrea tridentata–Atriplex polycarpa.*

Associated species observed within this alliance in the field include creosote, longleaf joint-fir (*Ephedra trifurca*), and allscale scrub. The creosote bush alliance covers approximately 50% of the BSA and is comprised of two large patches in the northern and southern portions of the BSA.

5.1.3 Disturbed Habitat

Although not recognized by the Natural Communities List (CDFW 2025), disturbed habitat refers to areas that have had anthropogenic disturbance and, as a result, cannot be identified as a native or naturalized vegetation association. However, these areas do have a recognizable soil substrate. If vegetation is present, it is almost entirely composed of non-native vegetation, such as ornamentals or ruderal exotic species. Disturbed habitat is not considered a sensitive biological resource by CDFW under CEQA (CDFW 2025).

Disturbed habitat within the BSA consists of maintained areas immediately adjacent to Lenwood Road that appear to have been recently graded or appear to be somewhat regularly maintained.

5.1.4 Urban/Developed

While not recognized by the Natural Communities List (CDFW 2025), urban/developed land represents areas that have been constructed upon or otherwise physically altered to an extent that native vegetation communities are not supported. This land cover type generally consists of semi-permanent structures, homes, parking lots, pavement

or hardscape, and landscaped areas that require maintenance and irrigation (e.g., ornamental greenbelts). Typically, this land cover type is unvegetated or supports a variety of ornamental plants and landscaping. Urban/developed land is not considered a sensitive biological resource by CDFW under CEQA (CDFW 2025).

5.2 Plants and Wildlife Observed

5.2.1 Plants

A total of 36 species of native or naturalized plants, 27 native (75%) and 9 non-native (25%), were recorded within the BSA. A list of plant species observed is provided in Appendix D. Additionally, results of the desert native plant survey were negative for the target species listed in Section 3.2.4.1 of this report.

5.2.2 Wildlife

A total of 40 wildlife species were recorded within the BSA or vicinity during surveys (Appendix E).

Birds detected on or in the immediate vicinity of the BSA were loggerhead shrike (*Lanius ludovicianus*), Say's phoebe (*Sayornis saya*), common raven (*Corvus corax*), mourning dove (*Zenaida macroura*), northern mockingbird (*Mimus polyglottos*), and white-crowned sparrow (*Zonotrichia leucophrys*). Mammals detected consisted of desert kit fox (*Vulpes macrotis arsipus*), black-tailed jackrabbit (*Lepus californicus*), and desert cottontail (*Sylvilagus audubonii*). The only reptile detected was common side-blotched lizard (*Uta stansburiana*). Invertebrates detected consisted of butterflies including painted lady (*Vanessa cardui*), orange sulphur (*Colias eurytheme*), and checkered white (*Pontia protodice*) (Appendix E).

5.3 Special-Status and Regulated Resources

Appendix F, Special-Status Plants Potentially Occurring within the Biological Survey Area, and Appendix G, Special-Status Wildlife Potentially Occurring within the Biological Survey Area, provide tables of all special-status species whose geographic ranges fall within the general BSA vicinity. Special-status species' potential to occur within the BSA were evaluated based on known species distribution, species-specific habitat preferences, and Dudek biologists' knowledge of regional biological resources. Species potentially occurring within the BSA are identified as having moderate or high potential to occur based on habitat conditions on site; species for which there is little or no suitable habitat are identified as not expected to occur or having low potential to occur.

5.3.1 Special-Status Plants

Special-status plants include those listed, or candidates for listing, as threatened or endangered by USFWS and CDFW and species identified as rare by CNPS (particularly CRPR 1A, presumed extinct in California; CRPR 1B, rare, threatened, or endangered throughout its range; and CRPR 2, rare or endangered in California, more common elsewhere).

Dudek biologists performed an extensive desktop review of literature, existing documentation, and GIS data to evaluate the potential for special-status plant species to occur within the BSA. Based on the results of the literature review and database searches, 12 special-status plant species were reported in the CNDDB and CNPS databases as

occurring in the nine U.S. Geological Survey 7.5-minute quadrangles containing and surrounding the BSA. Each special-status plant species was assigned a rating of "not expected" or "low," "moderate," or "high" potential to occur based on relative location to known occurrences, vegetation community, soil, and elevation. All 12 special-status plant species were determined to have a low potential to occur or are not expected to occur within the BSA based on the soils, vegetation communities (habitat) present, elevation range, and previous known location. While none of the special-status plant species were determined to have a moderate or high potential to occur, out of an abundance of caution, Dudek botanists conducted a special-status plant survey (i.e., rare plant survey) concurrently with the desert native plant survey, which is discussed in Section 5.3.2 of this report, within the project site. This survey was conducted during the blooming period for the 12 special-status species identified by the database search. No listed or non-listed CRPR 1 or CRPR 2 plants were observed during the 2023 survey efforts; however, one (1) CRPR 4.2 species, Mojave spineflower (*Chorizanthe spinosa*) was observed during the survey effort.

The off-site area located along Lenwood Road is comprised entirely of either urban developed lands or disturbed habitat and does not provide suitable habitat for any of the 12 special-status plant species identified in the literature review and database searches; therefore, a focused survey for special-status plants was not warranted for this area. The off-site area located along the eastern boundary of the project site is continuation of the creosote bush scrub mapped immediately adjacent to this area within the project site. Given the similarity in habitat, proximity to already surveyed areas where survey results for special-status plants were negative, and the small size of this off-site area (i.e., less than 0.1 acre), it was determined that a special-status plant survey was not warranted for this off-site area.

In addition, there is no USFWS-designated critical habitat for listed plant species overlapping or immediately adjacent to the BSA and the BSA occurs outside the CDFW distribution for western Joshua tree (USFWS 2023b; CDFW 2020a). Appendix F includes all special-status plants known to occur within the vicinity of the project and their potential to occur.

5.3.2 Desert Native Plants

As previously discussed, Dudek botanists conducted a desert native plant survey to comply with the CDNPA and in support of the project. This survey was conducted concurrently with a special-status plant (i.e., rare plant) survey.

The survey resulted in the detection of silver cholla (*Cylindropuntia echinocarpa*) within the project site. No other desert native plants were detected during the survey efforts.

5.3.2 Special-Status Wildlife

Special-status wildlife include those listed, or candidates for listing, as threatened or endangered by USFWS and CDFW and those designated as Species of Special Concern by CDFW and as sensitive by USFWS.

Similar to special-status plants, Dudek biologists performed an extensive desktop review of literature, existing documentation, and GIS data to evaluate the potential for special-status wildlife species to occur within the BSA. Each special-status wildlife species was assigned a rating of "not expected" or "low," "moderate," or "high" potential to occur based on relative location to known occurrences and vegetation community/habitat association; the results of this analysis are provided in Appendix G. Listed species with any potential to occur and non-listed special-status species with a moderate or higher potential to occur are discussed herein. Those special-status wildlife species that are not expected or have low potential to occur in the BSA are also included in Appendix G; however, these species are not discussed further because no significant direct or indirect impacts are expected.

Based on the results of the literature review and database searches, 15 special-status wildlife species were reported in the CNDDB and USFWS databases as occurring in the vicinity of the BSA. Of these species, five were determined to have at least a moderate potential to occur within the BSA based on suitable habitat present and nearby occurrences: LeConte's thrasher (*Toxostoma lecontei*), burrowing owl (*Athene cunicularia*), Mohave fringe-toed lizard (*Uma scoparia*), Mojave desert tortoise, and Mohave ground squirrel.

Mojave desert tortoise was confirmed absent from the BSA through focused protocol-level surveys. Focused surveys conducted for Mohave ground squirrel resulted in the capture of round-tailed ground squirrels (*Xerospermophilus tereticaudus*), including some that had characteristics of Mohave ground squirrels (i.e., a flatter tail, and brown dorsal pelage), indicating the potential for the presence of hybridized individuals, which is discussed in further detail, below.

Two special-status species, loggerhead shrike (*Lanius ludovicianus*) and desert kit fox (*Vulpes macrotis arsipus*), were incidentally observed during 2023 survey efforts within the project site. These species are summarized in Table 3 and discussed further below.

There is no USFWS-designated critical habitat for listed wildlife species overlapping or immediately adjacent to the BSA (USFWS 2023b). The closest designated critical habitat for Mojave desert tortoise is located approximately 2.2 miles from the BSA. The project site does not contain nursery sites, such as bat colony roosting sites or colonial bird nesting areas.

Table 3. Special-Status Wildlife Species Observed or with Moderate or High Potential to Occur within the Biological Survey Area

Scientific Name	Common Name	Status (Federal/ State)	Habitat	Potential to Occur[1]
Birds				
Athene cunicularia (burrow sites and some wintering sites)	burrowing owl	BCC/SC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	**High potential to occur**. The BSA contains open scrub habitat, with some small mammal and desert kit fox burrows. No burrowing owls or sign of burrowing owl were observed on site. The nearest mapped CNDDB record is approximately 1 mile southeast of the BSA (CDFW 2023d).
Lanius ludovicianus (nesting)	loggerhead shrike	None/SSC	Nests and forages in open habitats with scattered shrubs, trees, or other perches	**Present**. A loggerhead shrike was observed on site by Dudek biologists on January 23, 2023, during the biological reconnaissance survey.
Toxostoma lecontei	LeConte's thrasher	BCC/SSC	Nests and forages in desert wash, desert scrub, alkali desert scrub, desert succulent, and Joshua tree habitats; nests in spiny shrubs or cactus	**Moderate potential to occur**. The BSA contains desert scrub, with spiny shrub species such as *Lycium* and *Atriplex* that may provide suitable nesting habitat. The nearest mapped CNDDB record is approximately 4 miles east of the BSA in Barstow proper (CDFW 2023d). While this is a historical record, there are a few current sightings of the species less than 5 miles from the BSA (eBird 2023).
Mammals				
Spermophilus (Xerospermophilus) mohavensis	Mohave ground squirrel	None/ST	Desert scrub habitats, including those dominated by creosote bush and burrobush, desert sink scrub, and desert saltbush scrub	**Potentially Present**. Focused trapping surveys were conducted in the northern and southern portions of the site. Round-tailed ground squirrels (*Xerospermophilus tereticaudus*) exhibiting some Mohave ground squirrel physical characteristics were detected. CDFW stated they consider round-tailed ground squirrel–Mohave ground squirrel hybrids to be protected under CESA and require authorization for take (Wood, pers. comm., 2024). The BSA contains desert scrub with creosote bush, as well as saltbush scrub. Additionally, Mohave

Table 3. Special-Status Wildlife Species Observed or with Moderate or High Potential to Occur within the Biological Survey Area

Scientific Name	Common Name	Status (Federal/ State)	Habitat	Potential to Occur[1]
				ground squirrel is known to prefer sandy to gravelly soils, which are present within the BSA (Johnson et al. 2019; USDA 2023a). Some small mammal burrows were observed within the BSA, though many appeared to be inactive. The nearest mapped CNDDB record is approximately 1.25 miles north of the BSA. Additionally, there are several other records of the species within 5 miles of the BSA (CDFW 2023d).
Vulpes macrotis arsipus	desert kit fox	None/None[2]	Sparse vegetated scrub habitats such as creosote scrub communities that support abundant rodent populations (Center for Biological Diversity 2013)	**Present**. An active desert kit fox burrow complex and tracks were incidentally observed on site by a Dudek biologist during January 2023 desert tortoise surveys, and one individual desert kit fox was detected at a Mohave ground squirrel camera trap.
Reptiles				
Gopherus agassizii	Mojave desert tortoise	FT/ST	Arid and semi-arid habitats in Mojave and Sonoran Deserts, including sandy or gravelly locations along riverbanks, washes, sandy dunes, canyon bottoms, desert oases, rocky hillsides, creosote flats, and hillsides	**Absent**. While the study area contains creosote flats, some sandy dunes, and sandy hillsides that could provide suitable habitat to this species, no desert tortoise individuals, burrows, or their sign were observed during focused surveys in January 2023 and in January 2026. The southwestern end of the study area overlaps with a CNDDB delineated area containing what was historically the largest of four primary populations in California (CDFW 2023).
Uma scoparia	Mohave fringe-toed lizard	None/SSC	Loose wind-blown sand dunes, flats with sandy hummocks, washes, and banks of rivers	**High potential to occur**. The BSA contains areas of loose wind-blown dunes and flats with sandy hummocks. Additionally, the BSA contains shrubs and annual plants that may support arthropods, a part of the Mohave fringe-toed lizard diet. The

Table 3. Special-Status Wildlife Species Observed or with Moderate or High Potential to Occur within the Biological Survey Area

Scientific Name	Common Name	Status (Federal/ State)	Habitat	Potential to Occur[1]
				nearest mapped CNDDB record is approximately 1 mile southwest of the BSA (CDFW 2023d).

Notes:
BSA = biological survey area; CNDDB = California Natural Diversity Database.

1 **Determination Definitions**:

- **Present**: The species (individual or diagnostic sign) was observed within the site boundary during survey efforts in support of the project.
- **Potentially present**: Possible round-tailed ground squirrel–Mohave ground squirrel hybrids were trapped within the project site.
- **High potential to occur:** The species has not been documented on the site but has been observed within dispersal range of the site (or is within range and is highly mobile or cryptic – e.g., migratory avian species or legless lizard) and high-quality habitat is present.
- **Moderate potential to occur:** The species has not been documented on or within dispersal range of the site, but the site is within its known geographic range and moderate- to high-quality habitat is present. General rarity may be considered.

2 Section 4000 of the California Fish and Game Code defines "kit fox" as a fur-bearing mammal.

Status Designations

Federal
BCC: U.S. Fish and Wildlife Service Bird of Conservation Concern
FT: Federally listed as theatened

State
SC: State candidate for listing as threatened or endangered
SSC: California Species of Special Concern
ST: State listed as threatened

Mojave Desert Tortoise

Mojave desert tortoise is a federally and state-listed threatened species. The range of the Mojave desert tortoise includes portions of the Mojave Desert and the Colorado Desert in Southern California (parts of Inyo, Kern, Los Angeles, San Bernardino, and Riverside Counties), southern Nevada (Clark, Esmeralda, Nye, and Lincoln Counties), northwestern Arizona (Mohave County), and southwestern Utah (Washington County).

Typical habitat for Mojave desert tortoise in the Mojave Desert is creosote bush scrub where annual precipitation ranges from 2 to 8 inches, with a relatively high diversity of perennial plants and high productivity of ephemeral plants. Throughout most of the Mojave Desert, Mojave desert tortoises occur most commonly on gently sloping terrain with sandy gravel soils and where there is sparse cover of low-growing shrubs, which allows for the establishment of herbaceous plants. Soils must be friable enough for digging burrows, but firm enough that burrows do not collapse (USFWS 2010). Although populations of Mojave desert tortoise are not generally known to inhabit elevations much above 4,000 feet amsl, they occur from below sea level to an elevation of 7,300 feet amsl. Occupied habitat varies from flats and slopes dominated by creosote bush scrub at low elevations, to rocky slopes in blackbrush and juniper woodland ecotones at higher elevations (USFWS 2010).

To evaluate the impacts to Mojave desert tortoise, protocol surveys were conducted in accordance with the Pre-project Field Survey Protocol for Potential Desert Tortoise Habitats section included in Preparing for Any Action That May Occur within the Range of the Mojave Desert Tortoise (*Gopherus agassizii*) (USFWS 2018). Biologists surveyed the BSA by walking approximately 10-meter-wide (32.8 feet) transects for 100% coverage. A buffer survey was not conducted because there was no legal access to these areas.

The BSA contains suitable sandy soils and Mojave desert scrub habitat; however, there are several regional barriers to potential population sources around the BSA, such as high traffic roads; residential areas; and railroad tracks. The BSA overlaps a CNDDB delineated area containing what was historically the largest of four primary populations in California; however, the nearest CNDDB occurrence is from 2007 and is mapped approximately 6.1 miles west of the BSA (CDFW 2026a).

No Mojave desert tortoise individuals, burrows, or diagnostic sign (i.e., tracks, scat, water catch basins, courtship rings, or carcasses) were observed during the 2023 and 2026 focused protocol surveys; therefore, this species is considered absent from the BSA and will not be analyzed further. Survey forms are included as Appendix B.

Burrowing Owl

Burrowing owl is a USFWS Bird of Conservation Concern and a CDFW candidate for listing as threatened or endangered. With a relatively wide-ranging distribution throughout the west, are considered to be habitat generalists (Lantz et al. 2004). In California, burrowing owls are yearlong residents of open, dry grassland and desert habitats and grass, forb, and open shrub stages of pinyon-juniper and ponderosa pine habitats (Zeiner et al. 1990). Preferred habitat is generally typified by short, sparse vegetation with few shrubs, level to gentle topography, and well-drained soils (Haug et al. 1993).

The presence of burrows is the most essential component of burrowing owl habitat because they are required for nesting, roosting, cover, and caching prey (Coulombe 1971; Green and Anthony 1989; Haug et al. 1993; Martin 1973). In California, western burrowing owls most commonly live in burrows created by California ground squirrels (*Otospermophilus beecheyi*). Burrowing owls may occur in human-altered landscapes such as agricultural areas,

ruderal grassy fields, vacant lots, and pastures if the vegetation structure is suitable (i.e., open and sparse), useable burrows are available, and foraging habitat occurs in proximity (Gervais et al. 2008). Debris piles, riprap, culverts, and pipes can be used for nesting and roosting.

No burrowing owls or sign of burrowing owl were observed on site. However, this species has a high potential to occur within the BSA. Suitable habitat and small mammal burrows are present in the project site, and the nearest mapped CNDDB record is approximately 1 mile southeast of the BSA (CDFW 2026d).

Loggerhead Shrike

Loggerhead shrike is a USFWS Bird of Conservation Concern and a CDFW Species of Special Concern. It is widespread throughout the United States, Mexico, and portions of Canada (Humple 2008). The species is a yearlong resident in most of the United States, including from California east to Virginia and south to Florida, and in Mexico. In California, although shrikes are widespread at the lower elevations in the state, the largest breeding populations are in portions of the Central Valley, the Coast Ranges, and the southeastern deserts (Humple 2008).

Preferred habitats for loggerhead shrike are open areas that include scattered shrubs, trees, posts, fences, utility lines, or other structures that provide hunting perches with views of open ground, as well as nearby spiny vegetation or human-made structures (such as the top of chain-link fences or barbed wire) that provide a location to impale prey upon for storage or manipulation (Humple 2008). Loggerhead shrikes occur most frequently in riparian areas along woodland edges, grasslands with sufficient perch and butcher sites, scrublands, and open canopied woodlands, although they can be quite common in agricultural and grazing areas and can sometimes be found in mowed roadsides, cemeteries, and golf courses. Loggerhead shrikes occur rarely in heavily urbanized areas. For nesting, the height of shrubs and presence of canopy cover are most important (Yosef 1996).

A loggerhead shrike was incidentally observed within the western portion of the project site by Dudek biologists on January 23, 2023, during the biological reconnaissance survey.

LeConte's Thrasher

LeConte's thrasher is a USFWS Bird of Conservation Concern and a CDFW Species of Special Concern. LeConte's thrasher is found from below sea level up to 1,600 meters amsl in Southern California deserts in southern Mono County to the Mexican border (Dobkin and Granholm 2005; Sheppard 1996).

Preferred habitat for LeConte's thrasher is open desert wash, desert scrub, alkali desert scrub, and desert succulent shrub habitats; LeConte's thrasher also occurs in western Joshua tree habitat with scattered shrubs (Dobkin and Granholm 2005). This species prefers gently rolling to well-drained slopes occupied by saltbush and joint fir (Ephedra sp.) with bare ground or sparse grass (Fitton 2008). These conditions are generally found on bajadas or alluvial fans where the slopes are bisected by dry washes (Fitton 2008). Much of the LeConte's thrasher's diet consists of insects found within leaf litter under desert shrubs; therefore, habitat must contain sufficient ground cover (Sheppard 1996).

The BSA supports suitable foraging habitat (desert scrub) and nesting habitat (spiny shrubs and cactus). The nearest mapped CNDDB record is approximately 4 miles east of the BSA in Barstow proper (CDFW 2026d). While this is a historical record, there are a few current sightings of the species less than 5 miles from the BSA (eBird 2023). Based on the discussion above, LeConte's thrasher has a moderate potential to occur within the BSA.

Mohave Ground Squirrel

Mohave ground squirrel is a State of California threatened species. This species' distribution range is restricted to the Mojave Desert in San Bernardino, Los Angeles, Kern, and Inyo Counties (Zeiner et al. 1990). Mohave ground squirrels generally inhabit areas where the soil is friable and sandy or gravelly. Mohave ground squirrels occur in desert scrub habitats dominated by creosote bush and desert saltbush scrub at elevations of 1,800 to 5,000 feet amsl (CDFW 2023b).

The BSA contains desert scrub with creosote bush, as well as saltbush scrub. Additionally, Mohave ground squirrel is known to prefer sandy to gravelly soils, which are present within the BSA (Johnson et al. 2019; USDA 2023a). The BSA occurs along the edge of the south-central part of the historical range of Mohave ground squirrel but is located outside any core areas, key populations centers, or corridors (Figure 6, Wildlife Movement) (CDFW 2019a; Leitner 2015). The Mohave ground squirrel U.S. Geological Survey habitat suitability model depicted in Figure 3 of the conservation strategy (CDFW 2019a) ranks the majority of the project site as being moderately suitable Mohave ground squirrel habitat. The BSA is outside of the Mohave ground squirrel modeled habitat by the Desert Renewable Energy Conservation Plan (DRECP) (BLM 2016).

Historic protocol surveys were conducted within the BSA's vicinity between 2008 and 2012 by Leitner (2015); however, these surveys yielded no Mohave ground squirrel captures south of the Mojave River (refer to Figure 8 in Leitner 2015). The closest CNDDB occurrence from 1990 is approximately 1.25 miles north of the BSA and occurs within an area currently functioning as an agricultural operation (CDFW 2026d). This occurrence record does not specify the number of individuals or whether they were trapped or merely a visual observation. Focused trapping surveys were conducted in the northern and southern portions of the BSA. Camera trapping surveys were deployed in the center portions of the site; no Mohave ground squirrels were recorded (Appendix B).

Genetic testing of specimen samples by Leitner and Bell and Matocq (CDFW 2019a) confirmed that (1) pure Mohave ground squirrel and pure round-tailed ground squirrel are living near one another, (2) hybridization does occur, (3) some hybrids are fertile, and (4) backcrossing occurs in both species. The study concluded that although "hybridization has occurred within contact zones, recent examination of mitochondrial, morphological, allozyme, and chromosome data show no evidence of broad introgression of alleles between the two species (CDFW 2019a [Bell et al., 2009; Bell and Matocq, 2011]), indicating hybridization is a rare occurrence and further supporting the retention of full species designation for MGS" (CDFW 2019a).

During the focused protocol surveys conducted by Dipodomys in 2023, round-tailed ground squirrels exhibiting some Mohave ground squirrel physical characteristics (specifically a flatter tail and brown dorsal pelage) were captured within the project site (Appendix B). These captured individuals indicate the potential for the presence of hybridized round-tailed ground squirrel–Mohave ground squirrel individuals within the project site. Ear tissue samples from each potential hybrid individual captured were collected for potential future DNA testing; however, genetic testing was not conducted on these samples to confirm if these individuals are hybrids (as such testing was not available at the time of trapping). Based on the historical records of Mohave ground squirrel occurrences and the presence of potential round-tailed ground squirrel–Mohave ground squirrel hybrids, it is possible that a population of Mohave ground squirrel was present within or near the project site in the near past.

Desert Kit Fox

While desert kit fox is not listed by USFWS or CDFW under any special-status designation, the species is considered a "fur-bearing mammal," and is protected from take under the California Fish and Game Commission's Mammal Hunting Regulations (Subdivision 2, Chapter 5), which effectively protects it from hunting pressure. No hunting or trapping is proposed or would be allowed with project implementation, and the project would not be allowed take of this species. Desert kit foxes live in the open desert, on creosote bush flats, and among sand dunes (NPS 2015).

An active desert kit fox burrow complex and tracks were incidentally observed within the project site by a Dudek biologists during the January 2023 desert tortoise survey effort. In addition, at least one desert kit fox individual was incidentally observed during camera trapping efforts for Mohave ground squirrel in 2023 (Figure 5, Biological Resources).

Mohave Fringe-Toed Lizard

The Mohave fringe-toed lizard is a CDFW Species of Special Concern. This species' range is in the Mojave Desert from Death Valley to western Arizona (California Herps 2023). Mohave fringe-toed lizards inhabit sparsely vegetated sand dunes, flats with hummocks, washes, and banks of rivers from 300 feet to 3,000 feet amsl. Adults eat small arthropods.

The BSA contains areas of loose sand dune soils with shrubs and annual plants that may support arthropods, a part of the Mohave fringe-toed lizard diet. The nearest mapped CNDDB record is approximately 1 mile southwest of the BSA (CDFW 2026d). Therefore, Mohave fringe-toed lizard has a high potential to occur within the BSA.

5.4 Aquatic Resources

There are no potential waters or wetland waters of the U.S. or state within the BSA. Additionally, the National Hydrography Dataset and National Wetlands Inventory does not identify any potential aquatic resources present within the BSA (Figure 4, Hydrologic Setting).

5.5 Wildlife Corridors and Habitat Linkages

Wildlife corridors are linear features that connect large patches of natural open space and provide avenues for the migration of animals. Wildlife corridors contribute to population viability by ensuring continual exchange of genes between populations, providing access to adjacent habitat areas for foraging and mating, and providing routes for recolonization of habitat after local extirpation or ecological catastrophes (e.g., fires). Habitat linkages are small patches that join larger blocks of habitat and help reduce the adverse effects of habitat fragmentation. Habitat linkages provide a potential route for gene flow and long-term dispersal of plants and animals and may also serve as primary habitat for smaller animals, such as reptiles and amphibians. Habitat linkages may be continuous habitat or discrete habitat islands that function as stepping-stones for dispersal. The BSA occurs within multiple established wildlife corridors and/or habitat linkage areas as described in detail below.

California Essential Habitat Connectivity Project/California Desert Connectivity Project

The California Essential Habitat Connectivity (CEHC) Project was initiated by CDFW and the California Department of Transportation and identifies a network of Natural Landscape Blocks (i.e., relatively intact, large areas of land)

and Essential Connectivity Areas (i.e., an area of land that serves to connect at least two Natural Landscape Blocks). These areas represent modeled linkages and landscape blocks that need to be maintained to support natural communities and to provide guidance in the development of infrastructure and land use. The primary goal of the California Desert Connectivity Project is to identify areas where maintenance or restoration of ecological connectivity is essential for conserving the unique biological diversity of California's deserts. The California Desert Connectivity Project aims to strategically conserve and restore essential connections between remaining wildland areas, as an effective and cost-efficient measure to reduce the adverse effects of habitat loss and fragmentation (Penrod et al. 2012).

The BSA is mapped on the outer fringe of the San Bernardino Mountains–Calico Mountains Essential Connectivity Area within the Mojave Desert ecoregion under the CEHC Project (Spencer et al. 2010), listed as "less permeable" (lower ecological condition and less permeable to ecological flows) (CDFW 2023a) (Figure 6, Wildlife Movement). This larger overall connectivity area is part of a regional connection between the Mojave National Preserve to the east, Transverse Ranges to the south, and Death Valley to the northeast. The connectivity area may support regional wildlife movement for species such as desert kit fox, a variety of small mammals, reptiles, and birds.

The BSA also occurs within a CEHC Desert Tortoise Conservation Area/Least Cost Corridor and South Coast Wildlands Desert Linkage Network, which can provide a habitat mosaic containing viable populations of smaller terrestrial species (e.g., desert tortoise, desert kit fox) and allow for gene flow through diffusion of populations over a period of generations. The BSA is located outside of the Natural Landscape Blocks, Bighorn Sheep Populations, Potential Riparian Connections, and "most likely corridors" (Spencer et al. 2010). Additionally, the BSA is mapped as a CDFW Area of Conservation Emphasis Terrestrial Connectivity, Rank 4 (Spencer et al. 2010) (Figure 7, Terrestrial Connectivity – Areas of Conservation Emphasis (ACE)). There are Area of Conservation Emphasis Rank 5 areas, which are the highest priority areas for movement corridors, located approximately 4 miles south of the BSA and 6 miles northwest. According to CDFW (2019b), Area of Conservation Emphasis Rank 4 is defined as follows:

> These are the habitat connectivity linkages mapped in the CEHC and fine-scale regional connectivity studies. Habitat connectivity linkages are often based on species-specific models and represent the best connections between core natural areas to maintain habitat connectivity. Linkages have more implementation flexibility than irreplaceable and essential corridors. Any linkage areas not included in the category above [i.e., rank 5] was included here.

Summary

The BSA is currently undeveloped land located within the established wildlife corridors and/or habitat linkage areas (i.e., the San Bernardino Mountains–Calico Mountains Essential Connectivity Area, the Desert Tortoise Conservation Area/Least Cost Corridor, and South Coast Wildlands Desert Linkage Network) as described above that allow for viable populations of terrestrial species and/or species' dispersal movements through the vicinity. Surveys for desert tortoise were negative, indicating the site is not used by this species. Surveys within the BSA determined that potential round-tailed ground squirrel–Mohave ground squirrel hybrids may be present within the project site. However, the BSA occurs outside any Mohave ground squirrel core areas, key populations centers, or corridors (CDFW 2019a; Leitner 2015). Additionally, desert kit fox, a variety of small mammals, reptiles, and birds were observed within the project site during the 2023 and 2026 survey efforts.

Because the BSA overlaps with an Essential Connectivity Area and a California Desert Linkage Network and is a Rank 4 Area of Conservation Emphasis under CDFW, there are opportunities for wildlife to move across the site

when migrating through the region. However, the BSA is immediately adjacent to Lenwood Road along its western boundary, a residential area abuts the southern boundary, and rural residential areas are north and south of the site. Therefore, wildlife movement through the BSA's vicinity is, to some extent, restricted. The only relatively unrestricted areas occur along the Mojave River, to the north of the BSA, and undeveloped land to the west of the BSA. If wildlife enters the BSA, movement directly north, east, and south would be restricted by development, railroads, and roadways.

6 Project Impacts

This section addresses direct and indirect impacts to special-status biological resources that would result from implementation of the project. The significance determinations for proposed or potential impacts are described in this section, as well as recommended mitigation. Cumulative impacts are addressed in the project's CEQA document.

6.1 Explanation of Findings of Significance

Impacts to special-status vegetation communities, plant and wildlife species, and jurisdictional waters, including wetlands, must be quantified and analyzed to determine whether such impacts are significant under CEQA. CEQA Guidelines Section 15064(b) states that an ironclad definition of "significant" effect is not possible because the significance of an activity may vary with the setting. Appendix G, Environmental Checklist, of the CEQA Guidelines, however, does provide "examples of consequences which may be deemed to be a significant effect on the environment" (14 CCR 15064[e]). These effects include substantial effects on rare or endangered species of animal or plant or the habitat of the species. CEQA Guidelines Section 15065(a) is also helpful in defining whether a project may have a significant effect on the environment. Under that section, a proposed project may have a significant effect on the environment if the project has the potential to (1) substantially degrade the quality of the environment, (2) substantially reduce the habitat of a fish or wildlife species, (3) cause a fish or wildlife population to drop below self-sustaining levels, (4) threaten to eliminate a plant or animal community, (5) reduce the number or restrict the range of a rare or endangered plant or animal, or (6) eliminate important examples of a major period of California history or prehistory.

The following are the significance questions for biological resources provided in Appendix G of the CEQA Guidelines, which for the purposes of this report are treated as thresholds to determine if the project would potentially have a significant effect if it does any of the following:

- **Impact BIO-1.** Has a substantial adverse effect, either directly or through habitat modifications, on any species identified as being a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS.
- **Impact BIO-2.** Has a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by CDFW or USFWS.
- **Impact BIO-3.** Has a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.
- **Impact BIO-4.** Interferes substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impedes the use of native wildlife nursery sites.
- **Impact BIO-5.** Conflicts with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.
- **Impact BIO-6.** Conflicts with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan.

The evaluation of whether an impact to a particular biological resource is significant must consider both the resource itself and the role of that resource in a regional context. Substantial impacts are those that contribute to, or result in, permanent loss of an important resource, such as a population of a rare plant or wildlife species. Impacts may be important locally because they result in an adverse alteration of existing site conditions but not considered significant because they do not contribute substantially to the permanent loss of that resource regionally. The severity of an impact is the primary determinant of whether that impact can be mitigated to a level below significance.

6.2 Definition of Impacts

Direct impacts refer to complete loss of a biological resource. For purposes of this report, it refers to the area where vegetation clearing, grubbing, or grading replaces biological resources. Direct impacts were quantified by overlaying the proposed impact limits on the biological resources map of the BSA. Direct temporary impacts would occur from grading and development of the proposed project. Direct permanent impacts would occur from construction of an industrial/logistics building and associated off-site improvements including construction of EV charging stations and a logistics facility.

Indirect impacts are reasonably foreseeable effects caused by a project's implementation on remaining or adjacent biological resources outside the direct disturbance zone. For purposes of this report, indirect impacts may affect areas outside the disturbance. Indirect impacts may be short-term and construction related or long-term and associated with development in proximity to biological resources.

Cumulative impacts refer to the combined environmental effects of a project and other relevant projects. These impacts may be minor when analyzed individually but become collectively significant as they occur over time. Cumulative impacts are addressed in the project's CEQA document.

The evaluation of project impacts is organized below using Appendix G of the CEQA Guidelines.

6.3 Impacts Analysis

The acreage of impacts is provided in Table 4. Figure 8, Project Impacts, shows the biological resources on site that will be impacted by the project.

Table 4. Impacts to Vegetation Communities, Floristic Alliances and Associations, and Land Cover Types within the Biological Survey Area

Floristic Alliance	Association	Vegetation Community[1]	Ranking[2]	Total Existing BSA (Acres)	On-Site Permanent Impacts (Acres)	Off-Site Permanent Impacts (Acres)	Total Impacts (Acres)[3]
Scrub							
Atriplex polycarpa	*Atriplex polycarpa*	Allscale Scrub	G4/S5	49.38	49.38	0.001	49.38
Larrea tridentata	*Larrea tridentata–Atriplex polycarpa*	Creosote Bush–Allscale Scrub	G5/S5	49.71	49.65	0.064	49.71
Disturbed and Developed							
N/A	N/A	Disturbed Habitat	GNR/SNR	1.94	0.82	1.12	1.94
N/A	N/A	Urban/Developed	GNR/SNR	1.12	0.007	1.11	1.12
			Total[3]	**102.15**	**99.85**	**2.30**	**102.15**

Notes:
BSA = biological survey area; N/A = not applicable.
1 The spatial distribution of permanent impacts to vegetation communities and land covers are presented in Figure 8, Project Impacts.
2 The conservation status of a vegetation community is designated by a number from 1 to 5, preceded by a letter reflecting the appropriate geographic scale of the assessment (G = global, N = national, and S = subnational). The numbers have the following meaning (NatureServe 2023):
1 = critically imperiled
2 = imperiled
3 = vulnerable to extirpation or extinction
4 = apparently secure
5 = demonstrably widespread, abundant, and secure
GNR = unranked, global rank not yet assessed
SNR = unranked, subnational rank not yet assessed
3 Total acreages may not sum exactly due to rounding.

6.3.1 Impact BIO-1: Special-Status Species

The following significance determinations were made based on the impacts of the project. Recommended mitigation measures referenced in this section are provided in Chapter 7, Mitigation.

6.3.1.1 Impacts to Special-Status Plants

One non-listed special-status plant species, Mojave spineflower, was observed within the BSA. Mojave spineflower was not included as a target species for the 2023 focused surveys because it is a CRPR 4.2 species. Species with a CRPR of 4 are not considered rare but only limited in distribution or infrequent throughout a boarder range in California (e.g. "Watch List" species) (CNPS 2026a). Thus, given that CEQA requires findings of significance for projects that "threaten to … reduce the number or restrict the range of a rare or endangered plant," Mojave spineflower will not be analyzed further.

No other special-status plant species were observed or determined to have a high or moderate potential to occur within the BSA; therefore, the project would have no direct or indirect impacts to special-status plant species. In addition, the BSA does not occur within or adjacent to federally designated critical habitat for any special-status plant species, and there would be no direct or indirect impacts to critical habitat.

Direct Impacts

Based on the discussion above, no direct impacts to special-status plant species are anticipated, and no avoidance or compensatory mitigation measures are required.

Indirect Impacts

Construction-Related: Potential short-term or temporary indirect impacts to special-status plant species resulting from construction activities include inadvertent spillover impacts, including unintentional clearing, trampling, or grading outside of the project footprint; generation of fugitive dust; changes in hydrology resulting from construction, including sedimentation and erosion; and the release of chemical pollutants. These potential construction-related activities could result in indirect impacts to special-status plant species that would be considered potentially significant absent mitigation.

Implementation of **Mitigation Measure (MM) BIO-1** (Construction-Related Indirect Impacts to Special-Status Plants, Special-Status Wildlife, Sensitive Vegetation Communities, and Aquatic Resources) would reduce potential indirect impacts to a less-than-significant level through biological monitoring, requirement of a Worker Environmental Awareness Training that will cover the special-status resources and mitigation requirements for the project, delineation of project boundaries, implementation of standard dust control measures, development of a stormwater pollution prevention plan (SWPPP), and requiring all vehicles and equipment be serviced in designated staging areas. With implementation of **MM-BIO-1**, the effect of construction-related indirect impacts to special-status plant species would be minimized to **less than significant with mitigation incorporated**.

Long-Term: Potential long-term indirect impacts that could result from development near special-status plant species or their suitable habitat include chemical releases such as oils and grease from vehicles that could degrade habitat; increased human presence that could lead to unauthorized access to potential habitat for special-status plants; increased invasive plant species that may degrade habitat; and trampling of vegetation and soil compaction

by humans, which could affect soil moisture, water penetration, surface flows, and erosion. These potential long-term indirect impacts to special-status plant species would be potentially significant absent mitigation.

Implementation of **MM-BIO-2** (Long-Term Indirect Impacts to Special-Status Plants, Special-Status Wildlife, Sensitive Vegetation Communities, and Aquatic Resources) would reduce potential long-term indirect impacts to a less-than-significant level by requiring measures to ensure project runoff is not altered from existing conditions and toxicants are not discharged, restoration of temporary impacts, preparation of landscaping plans that will emphasize native species and not include species from the California Invasive Plant Council (Cal-IPC) California Invasive Plant Inventory (Cal-IPC 2006), and incorporation of barriers to prevent unauthorized public access to areas with potential habitat for special-status plants. With implementation of **MM-BIO-2**, the effect of long-term indirect impacts to special-status plant species would be minimized to **less-than-significant with mitigation incorporated**.

6.3.1.2 Impacts to Special-Status Wildlife

A total of three special-status wildlife species were determined to have a moderate or high potential to occur within the BSA based on known species distribution, species-specific habitat preferences, and habitat conditions within the BSA: burrowing owl, LeConte's thrasher, and Mohave fringe-toed lizard. Additionally, two special-status wildlife species were observed directly or via active, diagnostic sign within the BSA. Specifically, an active desert kit fox burrow was observed and a loggerhead shrike was observed within the BSA. Finally, I potential round-tailed ground squirrel–Mohave ground squirrel hybrids were captured within the BSA during protocol Mohave ground squirrel surveys; therefore, Mohave ground squirrel is considered to be potentially present within the BSA and has a high potential to occur.[3]

Focused surveys conducted for Mojave desert tortoise were negative; therefore, this species is not expected to occur and will not be analyzed further. The BSA does not occur within or adjacent to federally designated critical habitat for special-status wildlife species, and there would be no direct or indirect impacts to critical habitat.

Direct Impacts

Direct impacts can potentially occur to special-status wildlife species from impacts to foraging and/or habitat and impacts to the species from injury or mortality of individuals from construction and operational activities. The project could result in significant, direct impacts to four special-status wildlife species that have a moderate to high potential to occur within the BSA (burrowing owl, LeConte's thrasher, Mohave ground squirrel, and Mohave fringe-toed lizard) and two special-status wildlife species that were observed within the BSA (loggerhead shrike and desert kit fox).[4]

Burrowing Owl

Focused surveys for burrowing owl were not conducted; however, small mammal and desert kit fox burrows are present on site and could be suitable for nesting or wintering. Therefore, suitable nesting and foraging habitat exists within the BSA and the species could occupy the BSA prior to construction. Potentially significant direct impacts may occur to nesting or wintering burrowing owls during vegetation removal and ground-disturbance activities. To comply with the California Fish and Game Code and MBTA, a pre‐construction survey would be conducted according to the Staff Report on Burrowing Owl Mitigation (CDFW 2012) (or most recent guidance) to evaluate the

[3] CDFW considers round-tailed squirrel – Mohave ground squirrel hybrids to be a protected species under CESA.

[4] Although this species does not have any federal or state designation, Section 4000 of the California Fish and Game Code defines "kit fox" as a fur-bearing mammal and it is therefore considered "special-status" for purposes of this report.

locations of potential burrowing owl burrows within the project limits so take of owls or active owl nests can be avoided. **MM-BIO-3** (Pre-Construction Surveys for Burrowing Owl Avoidance) requires a pre-construction survey for burrowing owl in areas supporting potentially suitable habitat prior to the start of construction activities. A Burrowing Owl Management Plan would need to be prepared to facilitate implementation of this mitigation measure. With the implementation of **MM-BIO-3** (Pre-Construction Surveys for Burrowing Owl Avoidance) potential direct impacts to burrowing owl would be **less than significant with mitigation incorporated**.

Loggerhead Shrike

Loggerhead shrike was observed during the reconnaissance survey within the BSA. The BSA contains open habitats with scattered shrubs and trees suitable for nesting and foraging. Direct impacts to loggerhead shrike individuals from construction are generally unlikely due to its high mobility and access to adjacent habitat. Due to the amount of suitable nesting and foraging habitat occurring within the surrounding region, direct impacts to 99.8 acres of suitable nesting and foraging habitat for loggerhead shrike would be less than significant.

Potential significant direct impacts may occur to nesting loggerhead shrike during vegetation removal. Implementation of **MM-BIO-4** (Pre-Construction Nesting Bird Survey) would minimize potential direct impacts to a less-than-significant level through avoidance of vegetation removal during the nesting season (February 1 through August 31) and performance of a nesting bird survey if vegetation is removed during the nesting season. Therefore, direct impacts to nesting loggerhead shrike would be **less-than-significant with mitigation incorporated**.

LeConte's Thrasher

LeConte's thrasher has a moderate potential to occur within the BSA. The BSA contains desert scrub, with spiny shrub species such as *Lycium* and *Atriplex* that may provide suitable nesting and foraging habitat for LeConte's thrasher. Direct impacts to LeConte's thrasher individuals from construction are generally unlikely due to its high mobility and access to adjacent habitat. Due to the amount of suitable nesting and foraging habitat occurring within the surrounding region, direct impacts to 99.1 acres of suitable nesting and foraging habitat for LeConte's thrasher would be less than significant.

Potentially significant direct impacts may occur to nesting LeConte's thrasher during vegetation removal. Implementation of **MM-BIO-4** would minimize potential direct impacts to a less-than-significant level through avoidance of vegetation removal during the nesting season (February 1 through August 31) and performance of a nesting bird survey if vegetation is removed during the nesting season. Therefore, direct impacts to nesting LeConte's thrasher would be **less-than-significant with mitigation incorporated**.

Mohave Ground Squirrel

Focused surveys for Mohave ground squirrel resulted in the capture of round-tailed ground squirrels exhibiting some physical characteristics of Mohave ground squirrels (i.e., a flatter tail and brown dorsal pelage) within the BSA. These individuals may be a round-tailed ground squirrel–Mohave ground squirrel hybrid; however, genetic testing was not conducted to confirm if these individuals were hybrids. The CDFW has stated they consider any Mohave ground squirrel hybrid to be protected under CESA and impacts to any of these confirmed hybrid individuals would require authorization for take (Wood, pers. comm., 2024). Therefore, project implementation could result in potentially significant direct impacts to Mohave ground squirrel hybrid individuals and suitable habitat for these

individuals during vegetation removal and ground-disturbance activities. If present during construction, direct impacts to individuals and suitable habitat would be significant absent mitigation.

MM-BIO-5 (Mohave Ground Squirrel Avoidance and Minimization) requires pre-construction surveys to evaluate presence of the species. If pre-construction surveys or genetic testing (if such testing is available) are negative for the Mohave ground squirrel or Mohave ground squirrel hybrids, no further mitigation shall be required. Should presence be determined, **MM-BIO-5** provides minimization and avoidance measures for potential impacts to Mohave ground squirrel and Mohave ground squirrel hybrids. Section 2081 subdivision (b) of the Fish and Game Code allows CDFW to authorize take of species listed as endangered, threatened, or candidate pursuant to the California Endangered Species Act (CESA) through an incidental take permit (ITP). If needed, the ITP shall include an analysis of whether project impacts would jeopardize the continued existence of the species and shall provide suitable avoidance and minimization measures to reduce potential impacts. If required, the ITP shall provide compensatory mitigation for direct impacts to occupied Mohave ground squirrel, or Mohave ground squirrel hybrid, habitat at a minimum of 1:1 ratio through on- or off-site preservation with permanent protection and long-term funding or through purchase of equivalent credits through a mitigation bank if available.

Implementation of **MM-BIO-5** (Mohave Ground Squirrel Avoidance and Minimization) would reduce potential impacts to Mohave ground squirrel or Mohave ground squirrel hybrids, should any be determined to be present on site, to **less-than-significant with mitigation incorporated**.

Desert Kit Fox

An active desert kit fox burrow complex and tracks were incidentally observed on site by a Dudek biologists during the Mojave desert tortoise survey efforts. In addition, at least one individual desert kit fox was detected via the Mohave ground squirrel camera traps (Appendix B). Project implementation could have direct impacts on desert kit fox individuals and 99.1 acres of suitable habitat during vegetation removal and ground-disturbance activities. Direct impacts to individuals would be potentially significant absent mitigation. Due to the surrounding undeveloped lands available with comparable suitable habitat, the loss 99.1 acres of suitable habitat for desert kit fox would be less than significant.

To avoid potential direct impacts to desert kit fox, a pre-construction survey for desert kit fox would be conducted within 10 days prior to the start of construction to determine the presence/absence of desert kit fox, pursuant to **MM-BIO-6** (Pre-Construction Survey for Desert Kit Fox and Avoidance). To ensure that potential impacts to this species are less than significant, a desert kit fox relocation and mitigation plan would be prepared to facilitate implementation of this mitigation measure.

Implementation of **MM-BIO-6** (Pre-Construction Survey for Desert Kit Fox and Avoidance) would reduce potential direct impacts to desert kit fox to **less than significant with mitigation incorporated**.

Mohave Fringe-Toed Lizard

Mohave fringe-toed lizard has a high potential to occur within the BSA. The BSA contains areas of loose sand dune soils with shrubs and annual plants that may support arthropods, a part of the Mohave fringe-toed lizard diet. This species generally has low mobility to escape and therefore is susceptible to injury and mortality during construction activities. Impacts on individuals would be significant absent mitigation. Development of the project site would result in the loss of 99.1 acres of potential habitat for Mohave fringe-toed lizard. However, due to the surrounding

undeveloped lands available with comparable suitable habitat, the loss 99.1 acres of suitable habitat for Mohave fringe-toed lizard is considered less than significant.

Implementation of **MM-BIO-7** (Pre-Construction Clearance Survey) would reduce potential direct impacts to a less-than-significant level by requiring a pre-construction survey for special-status wildlife species using appropriate methods, avoidance of these species where possible, and relocation of individuals that may be captured. In addition, for any non-listed special-status wildlife species occurring in construction areas, buffers shall be established or, if establishing buffers is not feasible, attempts will be made to move the individuals to safety through capture and relocation or through encouraging them to leave the site. Therefore, direct impacts to Mohave fringe-toed lizard would be **less than significant with mitigation incorporated**.

Nesting Migratory Birds and Raptors

Similar to most other sites containing trees, shrubs, and other vegetation, the BSA contains opportunities for birds of prey (raptors) and other avian species to nest on site. Native nesting bird species with potential to occur within the BSA are protected by California Fish and Game Code Sections 3503 and 3503.5 and by the federal MBTA (16 USC 703–711). In particular, California Fish and Game Code Section 3503 provides that it is unlawful to take, possess, or needlessly destroy the active nests or eggs of any bird in California; Section 3503.5 protects all raptors and their eggs and active nests; and the MBTA prohibits the take (including killing, capturing, selling, trading, and transport) of native migratory bird species throughout the United States. Currently, California considers any nest that is under construction or modification or is supporting eggs, nestlings, or juveniles, as "active." Therefore, impacts to nesting migratory birds and raptors would be significant absent mitigation under CEQA.

To ensure compliance with the California Fish and Game Code and MBTA and to avoid potential impacts to nesting birds, vegetation removal activities would be conducted outside the general bird nesting season (February 1 through August 31, depending on the species); if vegetation cannot be removed outside the bird nesting season, a pre - construction nesting bird survey is required to be prepared by a qualified biologist prior to vegetation removal in compliance with the California Fish and Game Code and MBTA. Implementation of **MM-BIO-4** would reduce potential direct impacts to nesting migratory birds and raptors to **less than significant with mitigation incorporated**.

Indirect Impacts

Indirect impacts to special-status wildlife species are those that occur during construction to species present near the site but not within the construction zone. These include fugitive dust that can degrade habitat and result in health implications for wildlife species; noise and vibration that can stress wildlife species, cause them to leave an area of otherwise suitable habitat, or result in disruption of bird nesting and abandonment of nests; increased human presence, which can also disrupt daily activities of wildlife and cause them to leave an area; night-time lighting, which can disrupt the activity patterns of nocturnal species, including many mammals and some birds, amphibians, and reptiles; and release of chemical pollutants, such as from oil leaks from construction vehicles and machinery.

The project could result in significant, indirect impacts to six special-status wildlife species: burrowing owl, loggerhead shrike, LeConte's thrasher, Mohave ground squirrel, desert kit fox, and Mohave fringe-toed lizard. Therefore, potential indirect impacts to these species are further discussed below.

Burrowing Owl, Loggerhead Shrike, LeConte's Thrasher, and Nesting Migratory Birds and Raptors

Construction-Related: Potential short-term or temporary indirect impacts to burrowing owl, loggerhead shrike, LeConte's thrasher, and other nesting birds and raptors resulting from construction activities include the release of chemical pollutants; adverse effects from noise, vibration, and increased human presence; and night-time lighting. These potential construction-related indirect impacts to burrowing owl, loggerhead shrike, LeConte's thrasher and other nesting birds and raptors would be potentially significant absent mitigation.

Implementation of **MM-BIO-1** (Construction-Related Impacts to Special-Status Plants, Special-Status Wildlife, Sensitive Vegetation Communities, and Aquatic Resources) will minimize indirect impacts to burrowing owl, loggerhead shrike, LeConte's thrasher, and other nesting birds and raptors through biological monitoring, requirement of a Worker Environmental Awareness Training that will cover the special-status resources and mitigation requirements for the project, delineation of project boundaries, requiring all vehicles and equipment be serviced in designated staging areas, and ensuring that construction will not be conducted at night.

Therefore, implementation of **MM-BIO-1** would minimize the effect of construction-related indirect impacts to burrowing owl, loggerhead shrike, LeConte's thrasher, and other nesting birds and raptors to **less than significant with mitigation incorporated**.

Long-Term: Potential long-term, indirect impacts that could result from development to suitable habitat for burrowing owl, loggerhead shrike, LeConte's thrasher, and other nesting birds and raptors include chemical releases such as oils and grease from vehicles that could degrade habitat; increased invasive plant species that may degrade habitat; and trampling of vegetation and soil compaction by humans, which could affect soil moisture, water penetration, surface flows, and erosion. These potential long-term indirect impacts to suitable habitat for burrowing owl, loggerhead shrike, LeConte's thrasher, and other nesting birds and raptors would be potentially significant absent mitigation.

Implementation of **MM-BIO-2** (Long-Term Impacts to Special-Status Plants, Special-Status Wildlife, and Sensitive Vegetation Communities) would reduce potential indirect impacts to a less-than-significant level by requiring measures to ensure runoff is not altered from existing conditions and toxicants are not discharged, restoration of temporary impacts, preparation of landscaping plans that will emphasize native species and not include species from the Cal-IPC California Invasive Plant Inventory (Cal-IPC 2006), incorporation of barriers to prevent unauthorized public access to areas with potential habitat, and stipulations that night-lighting will not be directed towards open space areas. Therefore, implementation of **MM-BIO-2** would minimize the effect of long-term indirect impacts to burrowing owl, loggerhead shrike, LeConte's thrasher, and other nesting birds and raptors to **less than significant with mitigation incorporated**.

Mohave Ground Squirrel

Construction-Related: Potential short-term or temporary indirect impacts to Mohave ground squirrel or Mohave ground squirrel hybrids resulting from construction activities include the release of chemical pollutants; generation of fugitive dust; adverse effects from noise, vibration, and increased human presence; and night-time lighting. These potential construction-related indirect impacts to Mohave ground squirrel or Mohave ground squirrel hybrids would be potentially significant absent mitigation.

Project implementation of **MM-BIO-1** (Construction-Related Impacts to Special-Status Plants, Special-Status Wildlife, Sensitive Vegetation Communities, and Aquatic Resources) would reduce potential indirect impacts to a less-than-significant level through biological monitoring, requirement of a Worker Environmental Awareness Training that will cover the special-status resources and mitigation requirements for the project, delineation of project boundaries, development of a SWPPP, implementation of standard dust control measures, requiring all vehicles and equipment be serviced in designated staging areas, and ensuring that construction will not be conducted at night. In addition, project implementation of **MM-BIO-5** (Mohave Ground Squirrel Avoidance and Minimization) would minimize indirect impacts from noise, vibration, and increased human presence.

Therefore, implementation of **MM-BIO-1** and **MM-BIO-5** would minimize the effect of construction-related indirect impacts to Mohave ground squirrel to **less than significant with mitigation incorporated**.

Long-Term: Potential long-term, indirect impacts that could result from development to suitable habitat for Mohave ground squirrel or Mohave ground squirrel hybrids include chemical releases such as oils and grease from vehicles that could degrade habitat; increased invasive plant species that may degrade habitat; and trampling of vegetation and soil compaction by humans, which could affect soil moisture, water penetration, surface flows, and erosion. These potential long-term indirect impacts to suitable habitat for Mohave ground squirrel would be potentially significant absent mitigation.

Implementation of **MM-BIO-2** (Long-Term Impacts to Special-Status Plants, Special-Status Wildlife, and Sensitive Vegetation Communities) would reduce potential indirect impacts to a less-than-significant level by requiring measures to ensure runoff is not altered from existing conditions and toxicants are not discharged, restoration of temporary impacts, preparation of landscaping plans that will emphasize native species and not include species from the Cal-IPC California Invasive Plant Inventory (Cal-IPC 2006), incorporation of barriers to prevent unauthorized public access to areas with potential habitat, and stipulations that night-lighting will not be directed towards open space areas.

Therefore, implementation of recommended **MM-BIO-2** would minimize the effect of long-term indirect impacts to Mohave ground squirrel to **less-than-significant with mitigation incorporated**.

Desert Kit Fox

Construction-Related: Potential short-term or temporary indirect impacts to desert kit fox resulting from construction activities include the release of chemical pollutants; generation of fugitive dust; adverse effects from noise, vibration, and increased human presence; and night-time lighting. These potential construction-related indirect impacts to desert kit fox would be potentially significant absent mitigation.

Project implementation of **MM-BIO-1** (Construction-Related Impacts to Special-Status Plants, Special-Status Wildlife, Sensitive Vegetation Communities, and Aquatic Resources) would reduce potential indirect impacts to a less-than-significant level through biological monitoring, requirement of a Worker Environmental Awareness Training that will cover the special-status resources and mitigation requirements for the project, delineation of project boundaries, development of a SWPPP, implementation of standard dust control measures, requiring all vehicles and equipment be serviced in designated staging areas, and ensuring that construction will not be conducted at night. In addition, project implementation of recommended **MM-BIO-6** (Pre-Construction Survey for Desert Kit Fox and Avoidance) would result in identification and relocation of any desert kit fox within areas

potentially impacted by the project, which would minimize indirect impacts from noise, vibration, and increased human presence.

Therefore, implementation of recommended **MM-BIO-1** and **MM-BIO-6** would minimize the effect of construction-related indirect impacts to desert kit fox to **less than significant with mitigation incorporated**.

Long-Term: Potential long-term indirect impacts that could result from development near desert kit fox or their suitable habitat include chemical releases such as oils and grease from vehicles that could degrade habitat; increased human presence that could lead to unauthorized access to potential habitat for desert kit fox; increased invasive plant species that may degrade habitat; trampling of vegetation and soil compaction by humans, which could affect soil moisture, water penetration, surface flows, and erosion; and night-time lighting. These potential long-term indirect impacts to desert kit fox would be potentially significant absent mitigation.

Project implementation of **MM-BIO-2** (Long-Term Impacts to Special-Status Plants, Special-Status Wildlife, and Sensitive Vegetation Communities) would reduce potential indirect impacts to a less-than-significant level by requiring measures to ensure runoff is not altered from existing conditions and toxicants are not discharged, restoration of temporary impacts, preparation of landscaping plans that will emphasize native species and not include species from the Cal-IPC California Invasive Plant Inventory (Cal-IPC 2006), incorporation of barriers to prevent unauthorized public access to areas with potential habitat for desert kit fox, and stipulations that night-lighting will not be directed towards open space areas.

Therefore, implementation of **MM-BIO-2** would minimize the effect of long-term indirect impacts to desert kit fox to **less than significant with mitigation incorporated**.

Mohave Fringe-Toed Lizard

Construction-Related: Potential short-term or temporary indirect impacts to Mohave fringe-toed lizard resulting from construction activities include the release of chemical pollutants; generation of fugitive dust; adverse effects from noise, vibration, and increased human presence; and night-time lighting. These potential construction-related indirect impacts to Mohave fringe-toed lizard would be potentially significant absent mitigation.

Project implementation of recommended **MM-BIO-1** (Construction-Related Impacts to Special-Status Plants, Special-Status Wildlife, Sensitive Vegetation Communities, and Aquatic Resources) would reduce potential indirect impacts to a less-than-significant level through biological monitoring, requirement of a Worker Environmental Awareness Training that will cover the special-status resources and mitigation requirements for the project, delineation of project boundaries, development of a SWPPP, implementation of standard dust control measures, requiring all vehicles and equipment be serviced in designated staging areas, and ensuring that construction will not be conducted at night. In addition, project implementation of **MM-BIO-7** (Pre-Construction Clearance Surveys) would result in identification and relocation of any Mohave fringe-toed lizard within areas potentially impacted by the project, which would minimize indirect impacts from noise, vibration, and increased human presence.

Therefore, implementation of **MM-BIO-1** and **MM-BIO-7** would minimize the effect of construction-related indirect impacts to Mohave fringe-toed lizard to **less than significant with mitigation incorporated**.

Long-Term: Potential long-term indirect impacts that could result from development near Mohave fringe-toed lizard or their suitable habitat include chemical releases such as oils and grease from vehicles that could degrade habitat;

increased human presence that could lead to unauthorized access to potential habitat for Mohave fringe-toed lizard; increased invasive plant species that may degrade habitat; trampling of vegetation and soil compaction by humans, which could affect soil moisture, water penetration, surface flows, and erosion; and night-time lighting. These potential long-term indirect impacts to Mohave fringe-toed lizard would be potentially significant absent mitigation.

Project implementation of **MM-BIO-2** (Long-Term Impacts to Special-Status Plants, Special-Status Wildlife, and Sensitive Vegetation Communities) would reduce potential indirect impacts to a less-than-significant level by requiring measures to ensure runoff is not altered from existing conditions and toxicants are not discharged, restoration of temporary impacts, preparation of landscaping plans that will emphasize native species and not include species from the Cal-IPC California Invasive Plant Inventory (Cal-IPC 2006), incorporation of barriers to prevent unauthorized public access to areas with potential habitat for Mohave fringe-toed lizard, and stipulations that night-lighting will not be directed towards open space areas.

Therefore, implementation of **MM-BIO-2** would minimize the effect of long-term indirect impacts to Mohave fringe-toed lizard to **less than significant with mitigation incorporated**.

6.3.2 Impact BIO-2: Sensitive Vegetation Communities

6.3.2.1 Direct Impacts

A total of 102.15 acres would be directly impacted by project implementation (Figure 8, Project Impacts). As stated in Section 5.1, Vegetation Communities and Land Covers, CDFW state rankings of 1, 2, and 3 are considered high priority for inventory or special-status and impacts to these communities typically require mitigation. The project site does not contain any sensitive vegetation communities; therefore, direct impacts to sensitive vegetation communities are not anticipated to occur, and no additional measures are recommended.

6.3.2.2 Indirect Impacts

Construction-Related: The undeveloped areas adjacent to the project site are similar to those on site—allscale scrub and creosote bush–all scale scrub. Since these are not sensitive vegetation communities, there would be no short-term indirect impacts to sensitive vegetation communities outside of the project area, and no additional measures are recommended.

Long-Term: The undeveloped areas adjacent to the project site are similar to those on site—allscale scrub and creosote bush– scrub. Since these are not sensitive vegetation communities, there would be no long-term indirect impacts to sensitive vegetation communities outside of the project area, and no additional measures are recommended.

6.3.3 Impact BIO-3: State or Federally Protected Wetlands

6.3.3.1 Direct Impacts

There are no potential aquatic resources within the BSA, including state or federally protected wetlands. Therefore, there are no direct impacts are associated with this resource and no mitigation required with project implementation.

6.3.3.2 Indirect Impacts

Construction-Related: There are no potential waters or wetland waters of the U.S. or state on site. Additionally, the National Hydrography Dataset and National Wetlands Inventory do not identify any potential resources immediately surrounding the project site (Figure 4, Hydrologic Setting). Therefore, there would be no short-term indirect impacts to state or federally protected waters or wetlands.

Long-Term: There are no potential waters or wetland waters of the U.S. or state on site. Additionally, the National Hydrography Dataset and National Wetlands Inventory do not identify any potential resources immediately surrounding the project site (Figure 4, Hydrologic Setting). Therefore, there would be no long-term indirect impacts to state or federally protected waters or wetlands.

6.3.4 Impact BIO-4: Wildlife Corridors and Habitat Linkages

6.3.4.1 Direct Impacts

The BSA is currently undeveloped land located within established wildlife corridors and/or habitat linkage areas (i.e., the San Bernardino Mountains–Calico Mountains Essential Connectivity Area, the Desert Tortoise Conservation Area/Least Cost Corridor, and South Coast Wildlands Desert Linkage Network) that allow for viable populations of terrestrial species and/or species dispersal movements through the vicinity. However, the BSA is immediately adjacent to Lenwood Road along the western boundary, a residential area abuts the southern boundary, and rural residential areas are north and south of the site. Therefore, wildlife movement through the BSA's vicinity is, to some extent, restricted. The only relatively unrestricted areas are along the Mojave River to the north of the BSA and undeveloped land to the west of the BSA. Surveys for Mojave desert tortoise were negative, indicating the BSA is not used by this species. Surveys within the BSA determined that there are possible round-tailed–Mohave ground squirrel hybrids utilizing the project site, as well as desert kit fox, a variety of small mammals, reptiles, and birds. If wildlife enters the BSA, movement directly north, east, and south is restricted by development, railroads, and roads. Additionally, the site is mapped as "less permeable" by CDFW (2025) (Figure 6, Wildlife Movement) which means the habitat has lower ecological conditions and is less permeable to ecological flows. Areas mapped as such typically do not support sustainable wildlife movements between high-value ecological areas and protected areas or ecological flows.

As shown on Figure 6, Wildlife Movement, areas outside the project site that are part of established wildlife corridors and/or habitat linkages and that currently support wildlife movement in the region would not be impacted by the project and would continue to allow for wildlife movement through the vicinity after project completion. Furthermore, the BSA does not contain nursery sites, such as bat colony roosting sites or colonial bird nesting areas. Therefore, impacts to wildlife movement would be **less than significant**.

6.3.4.2 Indirect Impacts

Construction-Related: The undeveloped areas adjacent to the BSA are similar to those on the project site. Since the surrounding area is mapped the same as the project site, there would be no short-term indirect impacts to wildlife movement outside of the BSA, and no additional measures are recommended.

Long-Term: The undeveloped areas adjacent to the project site are similar to those on site. Since the surrounding area is mapped the same as the BSA, there would be no long-term indirect impacts to wildlife movement outside of the project area, and no additional measures are recommended.

6.3.5 Impact BIO-5: Local Policies and Ordinances

As previously discussed in Section 2.3.1 of this report, the project must comply with Chapter 88.01.060, Desert Native Plant Protection of the County's Development Code which focuses on the conservation of specified desert plant species. Survey efforts within the BSA resulted in the detection of at least one silver cholla, which is protected under the CDNPA as well as this Development Code. All silver cholla present within the BSA would be directly removed by project activities (Figure 8, Project Impacts), which would be considered a potentially significant impact, absent mitigation, due to a conflict with the California Desert Native Plants Act and with the County's Development Code.

Pursuant to **MM-BIO-8** (Pre-Construction Survey and Removal Permit for Desert Native Plants), a preconstruction survey for protected native desert plants within the BSA would be conducted to ensure all individuals are accurately counted. Should this survey result in the detection of any protected native desert plants within the BSA, the project applicant would submit an application and applicable fee paid to the San Bernardino County for removal of all protected native desert plants as listed within the CDNPA and Chapter 88.01.060 of the County's Development Code. The application would include certification from a qualified native desert plant expert that the proposed removal of protected native desert plants is appropriate, supportive of a healthy environment, and in compliance with the County's Development Code.

Section 88.01.080 of the Development Code focuses on promoting the health of riparian corridors in relation to their impact on waterways within the region, their use as habitat by various plant and wildlife species, and their stabilization of stream banks, and Chapter 88.02 of the Development Code provides a regulatory framework to promote the health of soil communities within the County, limits soil erosion potential, and preserves air quality.

There are no riparian corridors present within the BSA; therefore, the project is in compliance with Section 88.01.080 of the Development Code. Implementation of **MM-BIO-1** (Construction-Related Impacts to Special-Status Plants, Special-Status Wildlife, Sensitive Vegetation Communities, and Aquatic Resources) and **MM-BIO-2** (Long-Term Impacts to Special-Status Plants, Special-Status Wildlife, and Sensitive Vegetation Communities) would help implement standard dust control measures, minimize runoff, and require soil stabilization and would limit soil erosion and help preserve air quality.

The project may result in significant impacts to California desert native plants protected by state and local plant and tree preservation regulations, should they be present within the BSA. The project would also result in significant impacts to the health of soils communities within the County as listed in Chapter 88.08 of the San Bernardino County Development Code, absent mitigation. However, implementation of **MM-BIO-1**, **MM-BIO-2**, and **MM-BIO-8** would reduce potential impacts to California desert native plants and the soil community to **less-than-significant with mitigation incorporated**.

6.3.6 Impact BIO-6: Habitat Conservation Plans

There are no adopted habitat conservation plans overlapping the project site. Therefore, the proposed project is not in conflict with any habitat conservation plans or natural community conservation plans nor would it prevent any habitat conservation plans or natural community conservation plans from being approved. There would be **no impact,** and no mitigation measures are required.

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7 Mitigation

The mitigation measures provided below are recommended to reduce potential direct and indirect impacts to biological resources, which will be further evaluated in the CEQA document.

MM-BIO-1 Construction-Related Impacts to Special-Status Plants and Special-Status Wildlife. Prior to issuance of a construction permit, construction plans and conditions of approval shall include the following to address indirect impacts to special-status species:

- **Biological Monitoring.** A qualified project biologist shall monitor ground-disturbing and vegetation clearing activities for the duration of construction to ensure that practicable measures are being employed to avoid incidental disturbance of habitat, species of concern, and other sensitive biological resources outside the project footprint. Once ground-disturbing and vegetation clearing activities are complete, the project biologist shall conduct weekly checks in order to inspect construction fencing and ensure that all applicable requirements from the mitigation measures are being upheld. The qualified project biologist shall have authority to immediately stop any activity that does not comply with the biological resources mitigation measures.
- **Worker Environmental Awareness Training.** Prior to grading, a pre-construction meeting shall be required that includes a training session for project personnel by a qualified biologist. The training shall include (1) a description of the species of concern and its habitats; (2) the general provisions of the applicable regulations pertaining to biological resources, including the federal and California Endangered Species Act and the Clean Water Act; (3) the need to adhere to the provisions of the Endangered Species Act, the Clean Water Act, and other applicable regulations; (4) the penalties associated with violating the provisions of the Endangered Species Act, Clean Water Act, and other applicable regulations; (5) the general measures that are being implemented to conserve the species of concern as they relate to the project; and (6) the access routes to and project site boundaries within which the project activities must be accomplished. Additionally, the training shall include the measures and mitigation requirements for the applicable resources. Copies of the mitigation measures and any required permits from the resource agencies shall be made available to construction personnel.
- **Delineation of Property Boundaries.** Prior to construction activities that would cause impacts, the contractor shall, in consultation with the biological monitor, clearly delineate the boundaries with fencing, stakes, or flags, consistent with the grading plan, within which the impacts shall take place. All impacts outside the fenced, staked, or flagged areas shall be avoided and all fencing, stakes, and flags shall be maintained until the completion of impacts in that area. In addition, any avoided environmental resources (if applicable) shall be clearly delineated. Prior to implementing construction activities, the biological monitor shall verify that the flagging clearly delineates the construction limits and any sensitive environmental resources to be avoided.
- **Standard Dust Control Measures.** Standard dust control measures shall be implemented in accordance with the Mojave Desert Air Quality Management District's Rules 401 and 403.2 to reduce impacts on nearby plants and wildlife. Measures include controlling speed to 25 mph or less on unpaved roads (including signage), replacing ground cover in disturbed areas as quickly as possible, frequently watering active work sites, installing shaker plates, and suspending excavation and grading operations during periods of high winds.

- **Stormwater Pollution Prevention Plan.** Prior to issuance of a grading permit for construction, the applicant shall submit a stormwater pollution prevention plan (SWPPP) to San Bernardino County that specifies best management practices to prevent all construction pollutants from contacting stormwater, with the intent of keeping sedimentation or any other pollutants from moving off site and into receiving waters. The requirements of the SWPPP shall be incorporated into design specifications and construction contracts. Best management practice categories employed on site would include erosion control, sediment control, and non-stormwater (good housekeeping). Best management practices recommended for the construction phase shall include, but not be limited to, the following:
  - Limiting grading to the minimum area necessary for construction and operation of the project
  - Limiting vegetation disturbance/removal to the maximum extent practicable
  - Implementing fiber rolls and sandbags around drainage areas and the site perimeter
  - Stockpiling and disposing of demolition debris, concrete, and soil properly
  - Installing a stabilized construction entrance/exit and stabilization of disturbed areas
  - Implementing proper protections for fueling and maintenance of equipment and vehicles
  - Managing waste, aggressively controlling litter, and implementing sediment controls
  - Stabilizing soil in disturbed areas by revegetation

  The following water quality measures will be included in the SWPPP to the extent applicable:

  - Erodible fill material shall not be deposited into water courses. Brush, loose soils, or other similar debris material shall not be stockpiled within the stream channel or on its banks.
  - Projects that cannot be conducted without placing equipment or personnel in sensitive habitats shall be timed to avoid the breeding season of riparian species.
  - When stream flows must be diverted, the diversions shall be conducted using sandbags or other methods requiring minimal instream impacts. Silt fencing or other sediment trapping materials shall be installed at the downstream end of construction activity to minimize the transport of sediments off site. Settling ponds where sediment is collected shall be cleaned out in a manner that prevents the sediment from reentering the stream. Care shall be exercised when removing silt fences, as feasible, to prevent debris or sediment from returning to the stream.
  - Water pollution and erosion control plans shall be developed and implemented in accordance with the Regional Water Quality Control Board.
- **Minimize Spills of Hazardous Materials.** All vehicles and equipment shall be maintained in proper condition to minimize the potential for fugitive emissions of motor oil, antifreeze, hydraulic fluid, grease, or other hazardous materials. Hazardous spills shall be immediately cleaned up and the contaminated soil shall be immediately cleaned up and the contaminated soil shall be properly handled or disposed of at a licensed facility. Servicing of construction equipment shall take place only at a designated staging area.
- **Wildlife Hazards.** The following measures shall be implemented to ensure that wildlife do not become trapped, entangled, injured, or poisoned by construction activities:

- Structures in which wildlife may become trapped (e.g., open pipes, pits, trenches, etc.) shall be tightly covered at the end of each work day. If covering the structure is not possible, an escape ramp shall be provided to allow any wildlife that falls in to safely escape.
- Debris piles, construction materials, equipment, and other items that may be used as wildlife refuge shall be inspected for wildlife at the start of each work day and prior to disturbance. If wildlife is discovered, it shall either be moved out of harm's way by a qualified biologist or allowed to move off of the project site on its own.
- Nets and mesh shall be made of loose weave material that is not fused at the intersections of the weave, as nets with welded weaves present an entanglement risk.
- Toxic materials and garbage shall be removed from the work site and safely stored or disposed of at the end of each work day.

- **Invasive Weeds.** In order to reduce the spread of invasive plant species, landscape plants shall not be on the most recent version of the California Invasive Plant Council California Invasive Plant Inventory (http://www.cal-ipc.org/ip/inventory/index.php).
- **Noise.** Proposed noise-generating land uses affecting suitable habitat for special-status species shall incorporate setbacks, berms, or walls to minimize the effects of noise on resources pursuant to applicable rules, regulations, and guidelines related to land use noise standards. For planning purposes, wildlife shall not be subject to noise that would exceed residential noise standards.
- **Night Work.** All construction activities shall be conducted during the daytime and lights shall not be kept on overnight in the construction area, as practicable. Should construction activities occur at night, the project applicant would be required to obtain authorization for nighttime work from the County. If night-lighting is required during construction activities, all exterior lighting along undeveloped land shall be fully shielded and directed downward in a manner that shall prevent light spillage or glare into the adjacent open space (undeveloped land).

MM-BIO-2 Long-Term Impacts to Special-Status Plants and Special-Status Wildlife. Prior to issuance of a construction permit, construction plans and conditions of approval shall include the following to address indirect impacts to special-status species and nesting birds and raptors:

- **Runoff.** The project shall implement measures required through the National Pollutant Discharge Elimination System requirements to ensure that the quantity and quality of runoff discharged is not altered in an adverse way when compared with existing conditions. In particular, measures shall be put in place to avoid discharge of untreated surface runoff from developed and paved areas into open space (undeveloped land) or suitable habitat for special-status species. Stormwater systems shall be designed to prevent the release of toxins, chemicals, petroleum products, exotic plant materials, or other elements that might degrade or harm biological resources or ecosystem processes. This can be accomplished using a variety of methods including natural detention basins, grass swales, or mechanical trapping devices. Regular maintenance shall occur to ensure effective operations of runoff control systems.
- **Toxicants.** Land uses that use chemicals or generate bioproducts such as manure, fertilizer, or vineyard waste that are potentially toxic or may adversely affect plant species, wildlife species, habitat, or water quality shall incorporate measures to ensure that application of such

chemicals does not result in discharges. Measures such as those employed to address drainage issues shall be implemented.

- **Noise.** Proposed noise-generating land uses affecting suitable habitat for special-status species shall incorporate setbacks, berms, or walls to minimize the effects of noise on resources pursuant to applicable rules, regulations, and guidelines related to land use noise standards. For planning purposes, wildlife should not be subject to noise that would exceed residential noise standards.
- **Barriers.** The project shall incorporate barriers, where appropriate, to minimize unauthorized public access, domestic animal predation, illegal trespass, or dumping in open space and/or suitable habitat for special-status wildlife. Such barriers may include native landscaping, rocks/boulders, fencing, walls, signage, and/or other appropriate mechanisms.
- **Invasive Species.** Invasive, non-native plant species listed on the most recent California Invasive Plant Council inventory (https://www.cal-ipc.org/plants/inventory/) with a rating of moderate or high shall not be included in landscaping.

MM-BIO-3 Pre-Construction Surveys for Burrowing Owl and Avoidance. One pre-construction burrowing owl take avoidance survey shall be completed by a qualified biologist no less than 14 days before initiation of site preparation or grading activities. A second take avoidance survey shall be completed within 24 hours prior to the start of site preparation or grading activities. If ground-disturbing activities are delayed or suspended for more than 30 days after the pre-construction surveys, the project site shall be resurveyed. Surveys for burrowing owl shall be conducted in accordance with protocols established in the California Department of Fish and Wildlife (CDFW) 2012 Staff Report on Burrowing Owl Mitigation. The surveys shall be conducted of the project site and adjoining habitat areas within 500-feet of the construction area. If burrowing owl are not detected during pre-construction surveys, and if no burrows or perch sites have active sign (molted feathers, cast pellets, prey remains, eggshell fragments, decoration, or excrement), then construction related activities may begin, no further action shall be required, and no further mitigation under this measure is necessary.

If burrowing owls are detected occupying the site, a Burrowing Owl Management Plan shall be prepared in consultation with CDFW. Unless otherwise approved by CDFW, disturbance to suitably sized burrows (>11 cm in diameter and >150 cm in depth) shall be avoided during the breeding season (February 1 through August 31) unless found to be unoccupied. Buffers shall be established around occupied burrows by a qualified biologist in accordance with guidance provided in CDFW's 2012 Staff Report on Burrowing Owl Mitigation and based on the level of disturbance and time of year. Buffers may be adjusted by a qualified biologist based on the level of disturbance, site-specific conditions (e.g., visual screens), and after consultation with CDFW. Fencing or flagging shall be installed to create a non-disturbance buffer area where no work activities may be conducted. The buffer shall remain in place in accordance with the Burrowing Owl Management Plan and until it is determined that the burrows are no longer occupied or the young from the occupied burrows are foraging independently and capable of independent survival.

If impacts to burrowing owl cannot be feasibly avoided or minimized through non-disturbance buffers during construction, the applicant shall consult with CDFW on whether take authorization under the California Endangered Species Act (CESA) Incidental Take Permit (ITP) process may be

warranted. If take authorization is necessary, the ITP shall include suitable avoidance and minimization measures to reduce potential impacts (e.g., maintenance of buffers during the breeding season and passive relocation), and adequate compensatory mitigation through conservation or mitigation banking. Unavoidable impacts to occupied suitable habitat shall be compensated at a minimum of 1:1 ratio (through on- or off-site preservation with permanent protection and long-term funding, or through purchase of equivalent credits through a mitigation bank, if available) in addition to implementing all other measures and conditions of the ITP.

MM-BIO-4 Pre-Construction Nesting Bird Surveys and Avoidance. Construction activities shall avoid the migratory bird nesting season (typically February 1 through August 31) to reduce any potential significant impact to birds that may be nesting in the survey area to the maximum extent feasible. If construction activities must occur during the migratory bird nesting season, an avian nesting survey of the project site and within 500 feet of the project site shall be conducted to determine the presence/absence of protected migratory birds and active nests. The avian nesting survey shall be performed by a qualified wildlife biologist within 72 hours prior to the start of construction in accordance with the Migratory Bird Treaty Act and California Fish and Game Code Sections 3503, 3503.5, and 3513. If an active bird nest is found, the nest shall be flagged and mapped on the construction plans, along with an appropriate buffer established around the nest, which shall be determined by the biologist based on the species' sensitivity to disturbance (typically 300 feet for passerines and 500 feet for raptors and special-status species). The nest area shall be demarcated in the field with flagging and stakes or construction fencing. On-site construction monitoring shall be conducted when construction occurs in close proximity to an active nest buffer. No project activities shall encroach into established buffers without the consent of a monitoring biologist. The nest area and buffer shall be avoided and remain in place until it is determined by a qualified biologist that the nestlings have fledged and the nest is vacated and no longer active.

MM-BIO-5 Mohave Ground Squirrel Avoidance and Minimization. To address potentially significant impacts to Mohave ground squirrel, the project applicant shall conduct pre-construction surveys to evaluate presence of the species. If pre-construction surveys or genetic testing (if such testing is available) are negative for the Mohave ground squirrel or Mohave ground squirrel hybrids, no further mitigation shall be required.

If the pre-construction surveys confirm presence on the site, or alternatively, if the applicant forgoes pre-construction surveys and presumes presence, the applicant shall consult with the California Department of Fish and Wildlife (CDFW) and obtain an Incidental Take Permit (ITP) under Section 2081 of California Fish and Game Code. The ITP shall provide, at a minimum, suitable take avoidance and minimization measures to reduce potential impacts, and adequate compensatory mitigation through conservation or mitigation banking. Unavoidable impacts to occupied suitable habitat shall be compensated at a minimum of 1:1 ratio (through on- or off-site preservation with permanent protection and long-term funding, or through purchase of equivalent credits through a mitigation bank if available) in addition to implementing all other measures and conditions of the ITP. For example, take minimization measures to be implemented shall include, at a minimum, a combination of the following: (1) preconstruction surveys of the project site and 50-foot buffer, (2) preparation of a Mohave Ground Squirrel Relocation Plan with specific methods and procedures for burrow excavation and ground squirrel relocation, and (3) reporting to the County and CDFW.

MM-BIO-6 Pre-Construction Survey for Desert Kit Fox and Avoidance. A pre-construction survey for desert kit fox shall be conducted by a qualified biologist within 10 days prior to initiation of site preparation or grading activities to determine the presence/absence of desert kit fox.

If desert kit fox is detected, a Desert Kit Fox Relocation and Mitigation Plan shall be implemented. The Desert Kit Fox Relocation and Mitigation Plan shall include, at a minimum, the following avoidance, minimization, and mitigation measures. If an active non-natal desert kit fox den is detected, a 200-foot no disturbance buffer shall be established around the active den, unless otherwise authorized by the California Department of Fish and Wildlife (CDFW). Where required buffering will not be feasible, passive relocation, as outlined in the Desert Kit Fox Relocation and Mitigation Plan, shall be allowed in consultation with San Bernardino County, CDFW, and U.S. Fish and Wildlife Service (USFWS). If an active natal desert kit fox den is detected, an initial 200 foot no disturbance buffer shall be established around the natal den, and this buffer shall be maintained until the den can be verified to not host pups. Construction activities shall not be permitted in this area until the den has been vacated. Once the den is vacated, and if threatened by construction, it can be collapsed if deemed necessary by a qualified biologist.

A report to evaluate the success of the relocation efforts and any subsequent re-occupation, if applicable, shall be provided (including a comprehensive summary, tables, maps, and other necessary materials) at the end of the construction period to CDFW, the USFWS and the County. Data shall be readily available to the CDFW upon request. If an injured, sick, or dead desert kit fox is detected on any area associated with the project, the designated CDFW personnel at both the Ontario office and the Wildlife Investigation Lab shall be notified as described within the Desert Kit Fox Relocation and Mitigation Plan.

MM-BIO-7 Pre-Construction Mohave Fringe-toed Lizard Clearance Surveys. Pre-construction clearance surveys for Mohave fringe-toed lizard shall be conducted by a qualified biologist within 48 hours of the initiation of ground disturbance or vegetation clearing within and adjacent to construction areas. If found, Mohave fringe-toed lizards shall be relocated to suitable habitat nearby where they are safe from construction activities. Surveys and relocation of these species may only be conducted by a qualified biologist.

- Suitable burrows or rock piles shall be checked for occupancy. Occupied burrows shall be flagged and avoided (employing a 50-foot buffer) during construction. If the burrow cannot be avoided, it shall be excavated and the occupant relocated to an unoccupied burrow outside the construction area and of approximately the same size as the one from which it was removed.
- During construction, if a Mohave fringe-toed lizard is found on the project site, construction activities adjacent to the individual's location shall be halted and the animal shall be allowed to move away from the construction site. If the individual is not moving, a qualified biologist shall relocate it to nearby suitable habitat outside the construction area. It shall be placed in the shade of a shrub.

MM-BIO-8 Pre-Construction Desert Native Plant Survey. Prior to the issuance of grading permits, the BSA shall undergo a preconstruction survey to obtain an accurate count of the total number of protected desert native plants within the BSA. Protected desert native plants include those listed in the CDNPA as well as those listed within Chapter 88.01.060 (*Desert Native Plant Protection)* of the County's Development Code, and is as follows:

- The following desert native plants with stems 2 inches or greater in diameter or 6 feet or greater in height:
  - *Psorothamnus spinosus* (smoketree).
  - All species of the genus *Prosopis* (mesquites).
- All species of the family *Agavaceae* (century plants, nolias, yuccas).
- Creosote Rings, 10 feet or greater in diameter.
- All Joshua trees.
- Any part of any of the following species, whether living or dead:
  - *Olneya tesota* (desert ironwood).
  - All species of the genus *Prosopis* (mesquites).
- All species of the genus *Cercidium* (palo verdes).

Should any of the above listed plants be observed within the BSA during the preconstruction survey, the project applicant shall submit an application and applicable fee paid to San Bernardino County for removal of said protected native desert plants. The application shall include certification from a qualified native desert plant expert to show that proposed removal or relocation of protected native desert plants are appropriate, supportive of a healthy environment, and in compliance with the San Bernardino County Development Code.

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8 Level of Significance After Mitigation

All direct and indirect impacts to sensitive and special-status biological resources that would result from implementation of the proposed project would be either less than significant or less-than-significant after mitigation.

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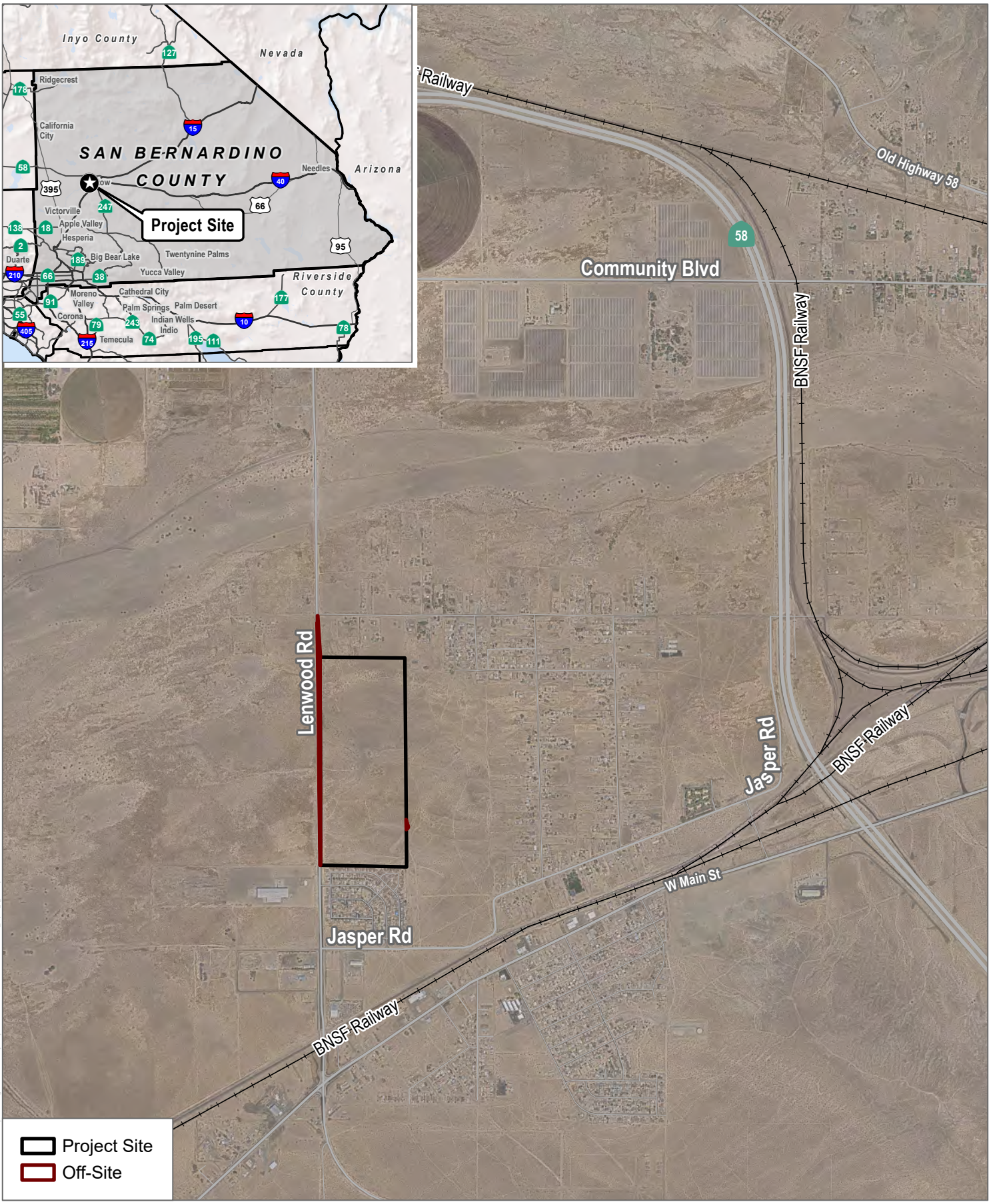

SOURCE: NearMap Accessed 2026, OpenStreetMaps 2019, USDOT

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0 1,000 2,000 Feet

FIGURE 1

Project Location

Electric Vehicle Charging Station and Logistics Facility Project

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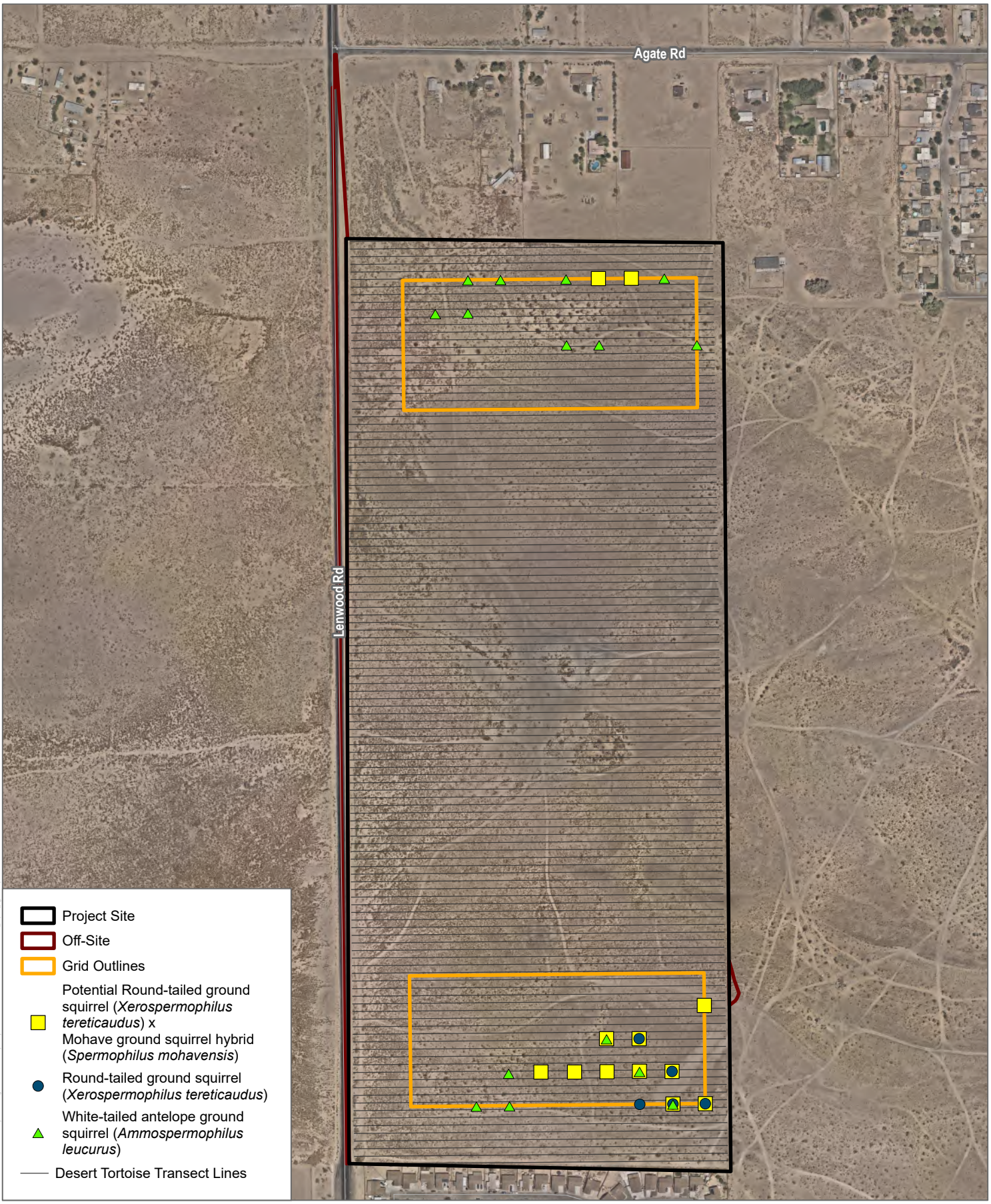

SOURCE: NearMap Accessed 2026, OpenStreetMaps 2019, Dipodomys 2023

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FIGURE 2

Survey Areas

Electric Vehicle Charging Station and Logistics Facility Project

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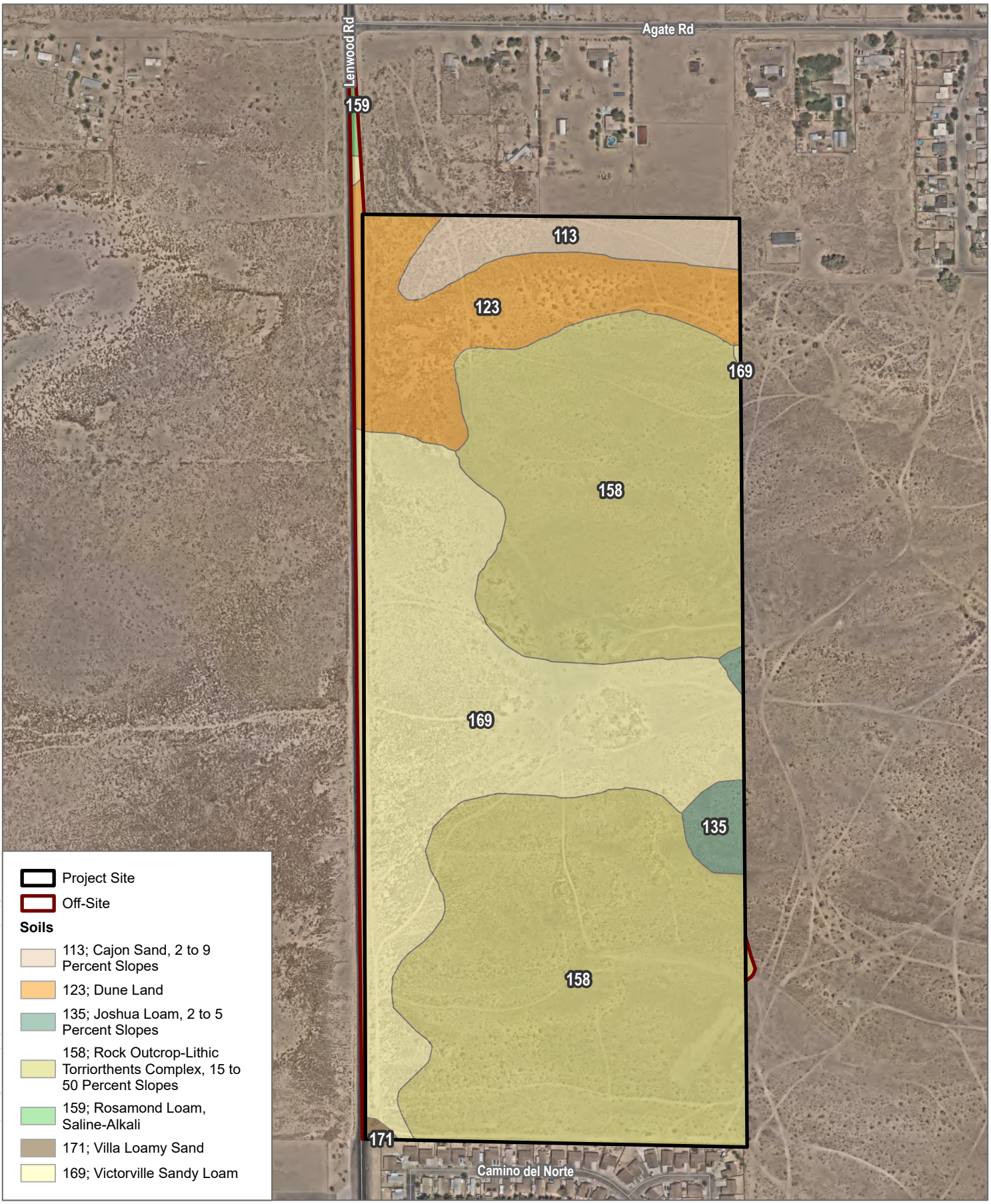

SOURCE: NearMap Accessed 2026, OpenStreetMaps 2019, USDA SSURGO

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FIGURE 3

Soils

Electric Vehicle Charging Station and Logistics Facility Project

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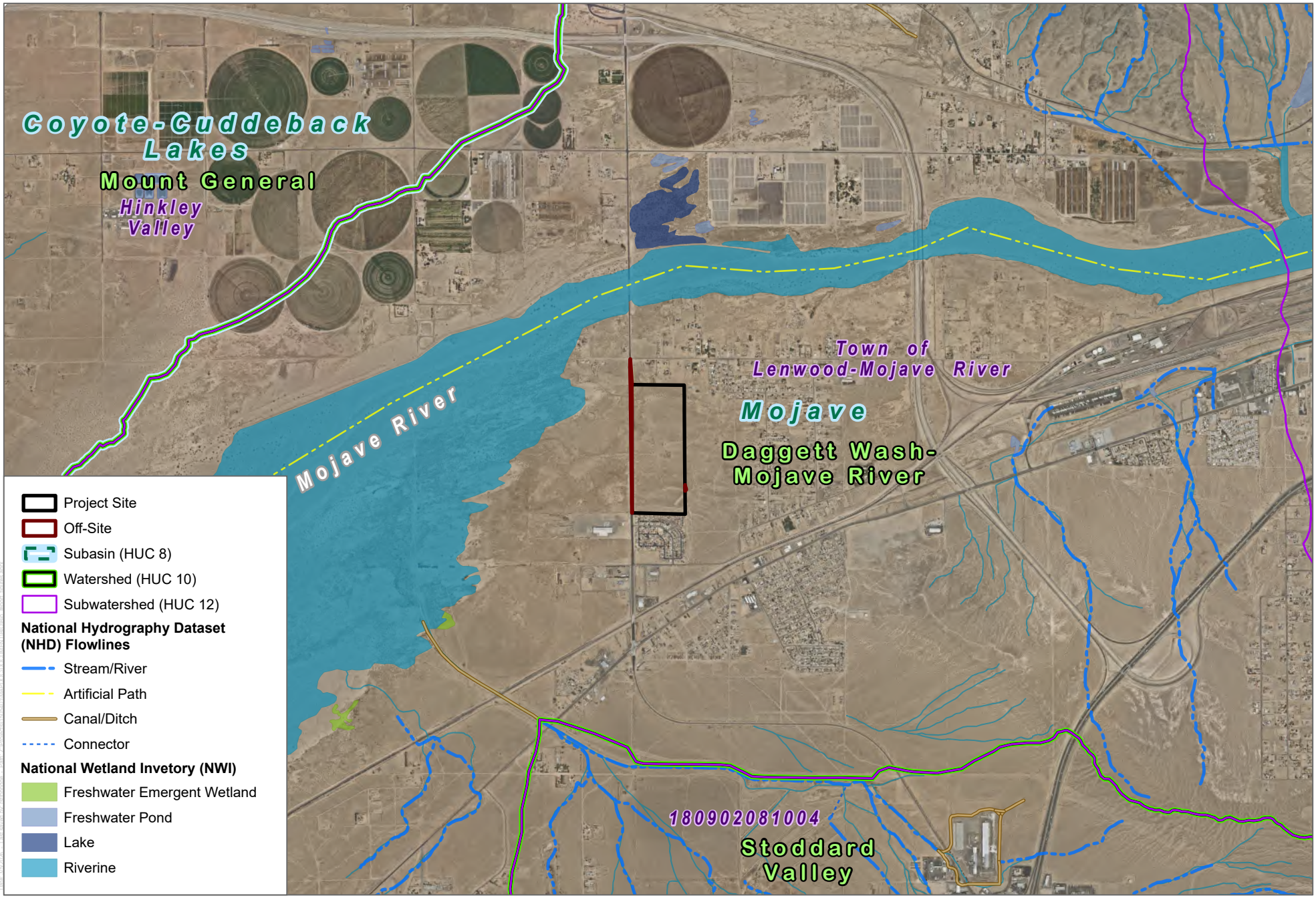

SOURCE: NearMap Accessed 2026, OpenStreetMaps 2019, NHD, USGS

DUDEK

0 1,625 3,250 Feet

FIGURE 4

Hydrologic Setting

Electric Vehicle Charging Station and Logistics Facility Project

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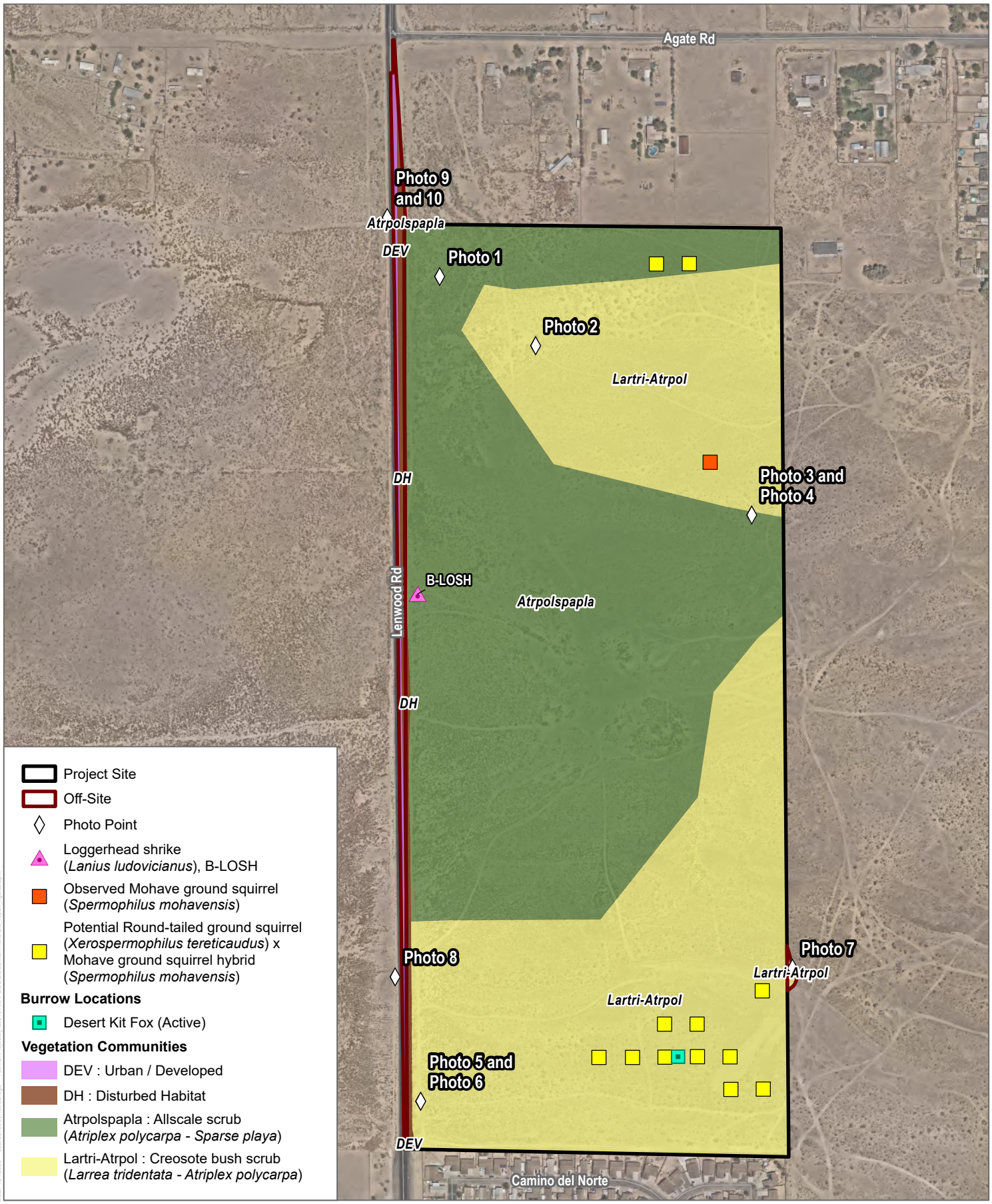

SOURCE: NearMap Accessed 2026, OpenStreetMaps 2019, Dipodomys 2023

DUDEK

0 225 450 Feet

FIGURE 5

Biological Resources

Electric Vehicle Charging Station and Logistics Facility Project'

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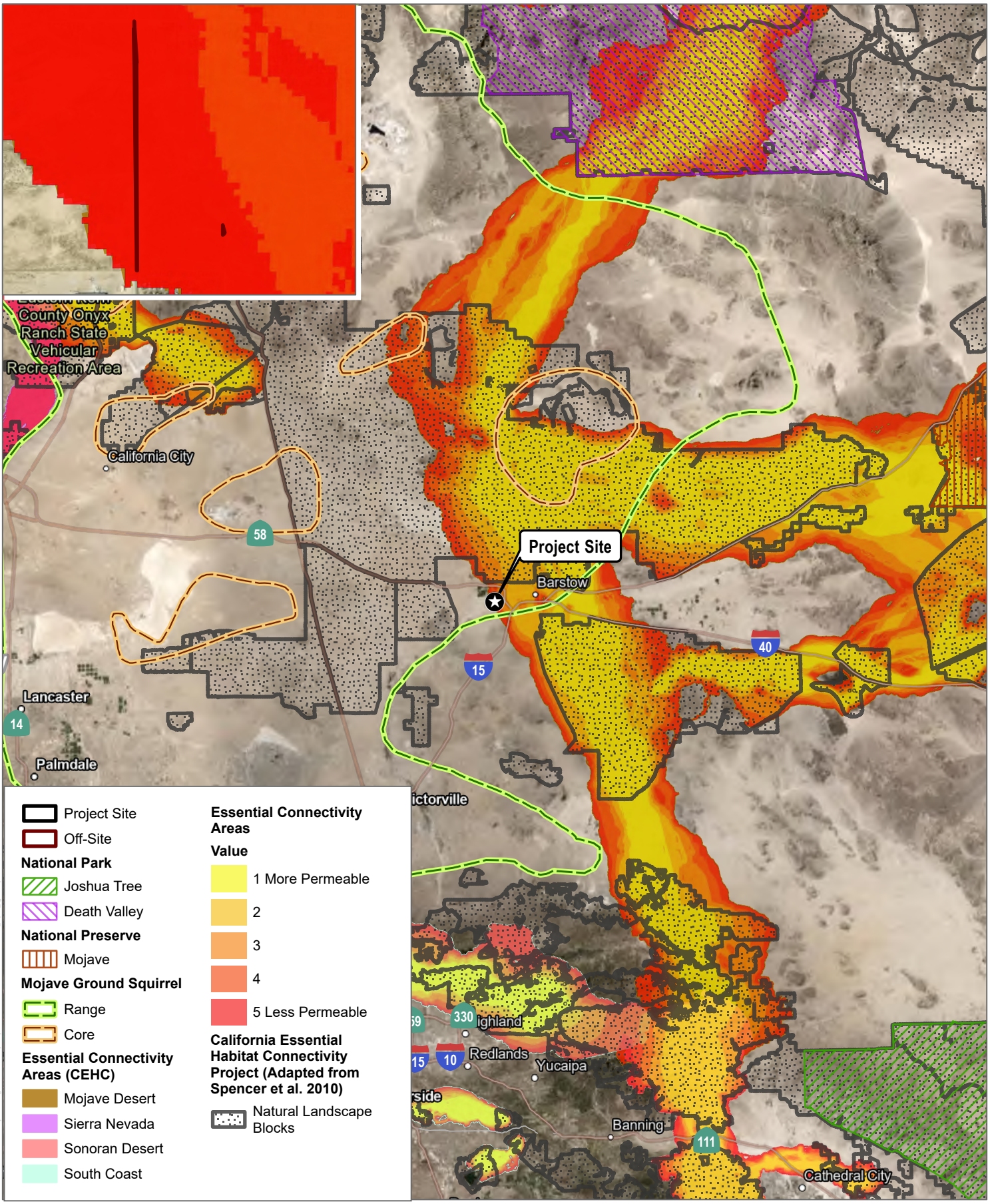

SOURCE: Firefly Basemap Imagery, OpenStreetMaps 2019

DUDEK

0 5 10 Miles

FIGURE 6

Wildlife Movement

Electric Vehicle Charging Station and Logistics Facility Project

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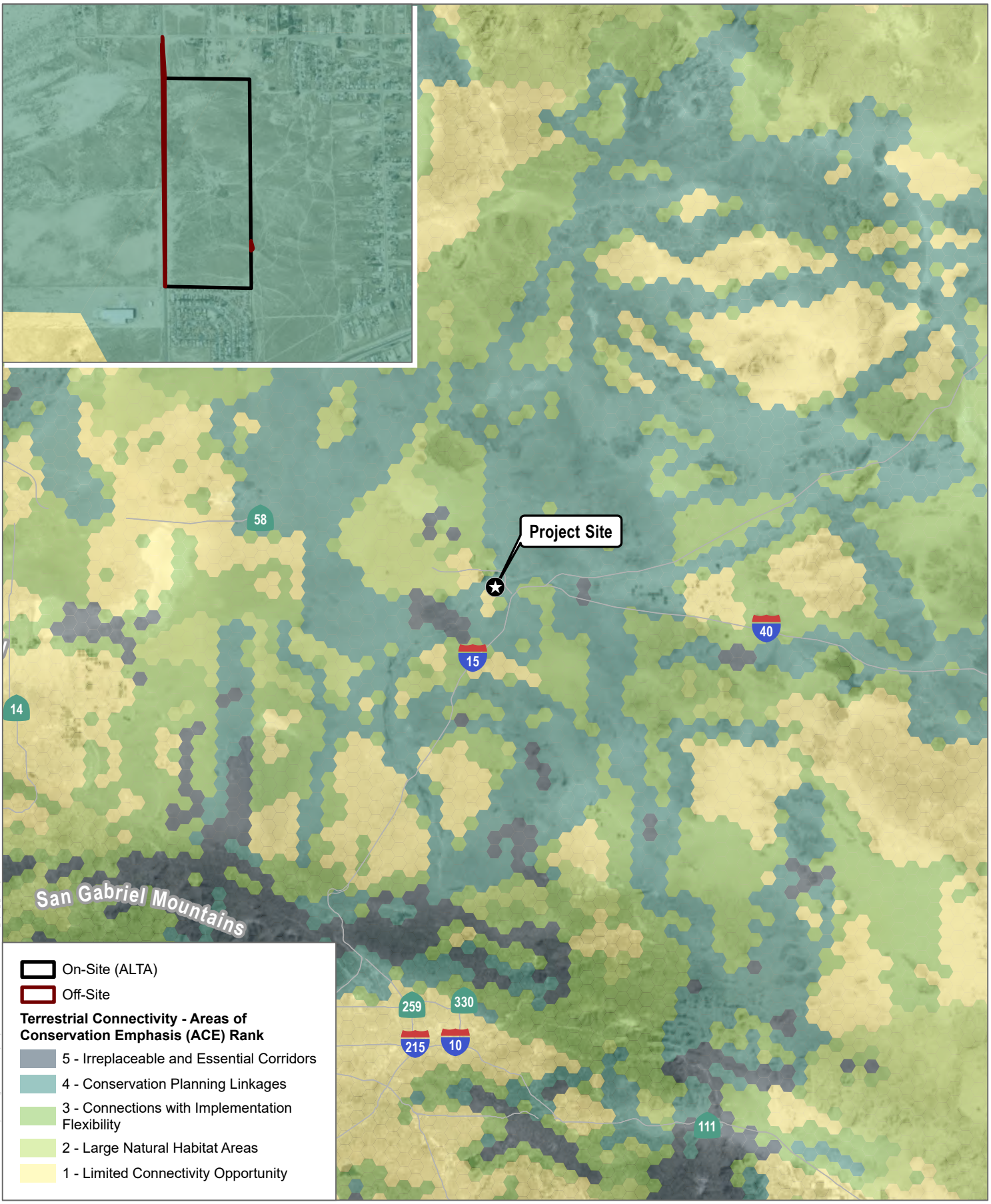

SOURCE: Firefly Basemap Imagery, OpenStreetMaps 2019, CDFW 2019

DUDEK

0 5 10 Miles

FIGURE 7

Terrestrial Connectivity - Areas of Conservation Emphasis (ACE)

Electric Vehicle Charging Station and Logistics Facility Project

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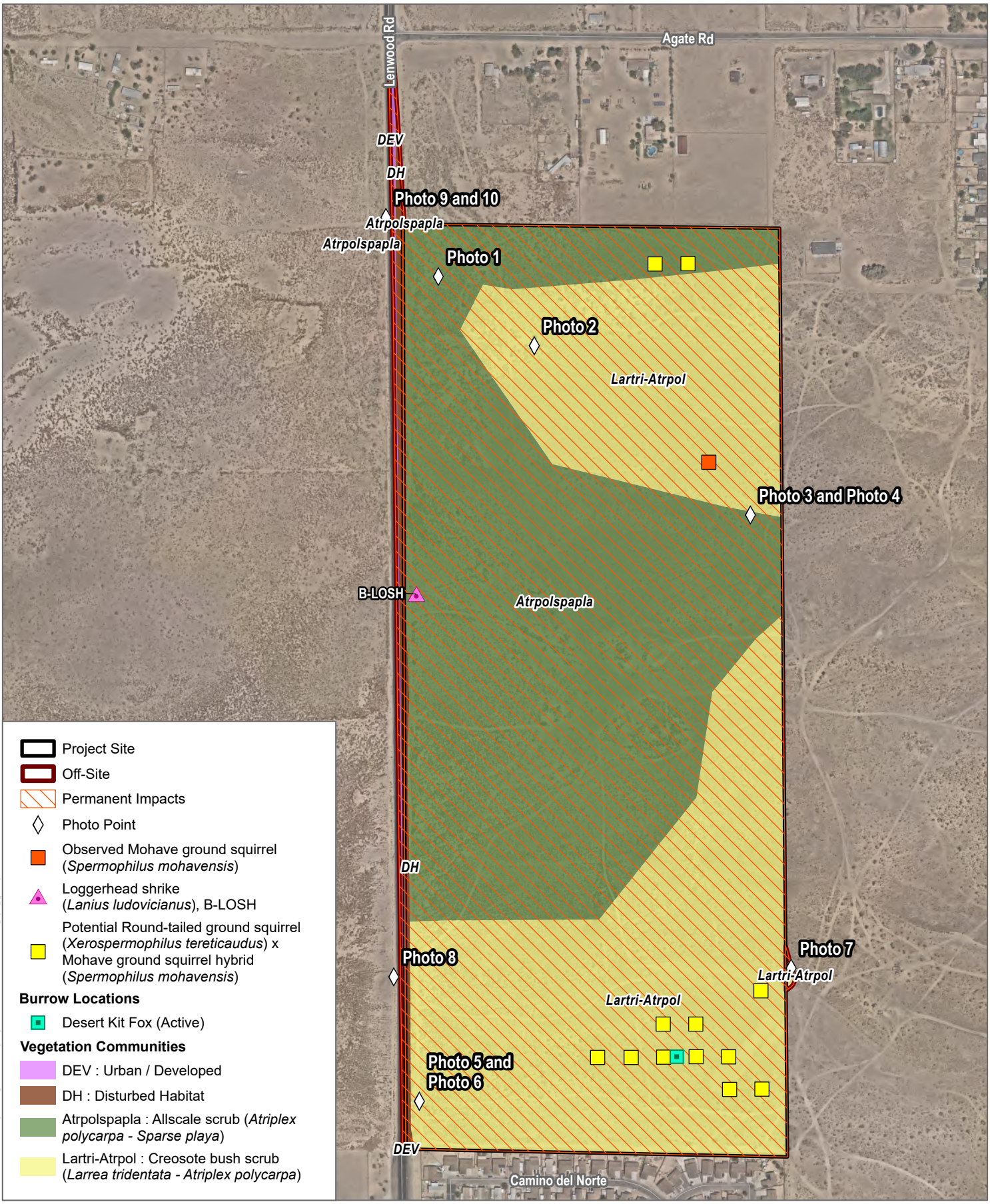

SOURCE: NearMap Accessed 2026, OpenStreetMaps 2019, Dipodomys 2023

DUDEK

0 225 450 Feet

FIGURE 8

Project Impacts

Electric Vehicle Charging Station and Logistics Facility Project'

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Appendix A

Mojave Desert Tortoise Data Sheet

Date of survey: 24-25, January, 2023 (day, month, year) Survey biologist(s): Michaela Grubbs, Randolph Thomas (name, email, and phone number)

Site description: EV Truck Charge, 100 acres, west of downtown Barstow (project name and size; general location)

County: San Bernardino Quad: Barstow Location: Section 8 of Township 9 N, Range 2 W (UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: 100 Transect #: 123 Transect length: 1,300 ft

GPS Start-point: 489218, 3859959, 681 m (easting, northing, elevation in meters) Start time: 0700 am/pm

GPS End-point: 489223, 3860950, 670 m (easting, northing, elevation in meters) End time: 1600 am/pm

Start Temp: 0.5 °C End Temp: 15.5 °C

Live Tortoises

Detection number	GPS location Easting	GPS location Northing	Time	Tortoise location (*in burrow*: all of tortoise beneath plane of burrow opening, or *not in burrow*)	Approx MCL ≥180 mm? (*Yes, No or Unknown*)	Existing tag # and color, if present
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting	GPS location Northing	Type of sign (*burrows, scats, carcass, etc*)	Description and comments
1				
2				
3				
4				
5				
6				
7				
8				

* No desert tortoise sign observed
* No individual desert tortoise observed
* No desert tortoise burrows observed

Date of survey: 22, January, 2026 (day, month, year) Survey biologist(s): Sarah Greely, sgreely@dudek.com, 442-241-6400 (name, email, and phone number)

Site description: Lenwood EV Truck Charge, west of downtown Barstow, off-site areas along Lenwood Rd (project name and size; general location)

County: San Bernardino Quad: Barstow Location: Section 8 of Township 9N, Range 2W (UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: 2.3 acres Transect #: 4 Transect length: 0.75 miles

GPS Start-point: 11S 489619.68 E, 3860121.49 N, 694m (easting, northing, elevation in meters) Start time: 12:00 am/pm

GPS End-point: 11S 489206.57 E, 3859960.19 N, 679m (easting, northing, elevation in meters) End time: 1:28 am/pm

Start Temp: 14.4 °C End Temp: 15 °C

Live Tortoises

Detection number	GPS location Easting	GPS location Northing	Time	Tortoise location (*in burrow*: all of tortoise beneath plane of burrow opening, or *not in burrow*)	Approx MCL ≥180 mm? (*Yes, No or Unknown*)	Existing tag # and color, if present
1						
2						
3						
4						
5						
6						
7						
8						

Tortoise Sign (burrows, scats, carcasses, etc)

Detection number	GPS location Easting	GPS location Northing	Type of sign (*burrows, scats, carcass, etc*)	Description and comments
1				
2				
3				
4				
5				
6				
7				
8				

* No desert tortoise sign (i.e., tracks, scat, courtship rings, drink basins, carcasses, bone fragments, etc.)
* No desert tortoise burrows observed
* No individual desert tortoises observed

Appendix B

Mohave Ground Squirrel Protocol Survey Report

August 5, 2023

Callie Amoaku
Dudek
605 Third Street
Encinitas, CA 92024
Via email: cford@dudek.com

Subject: Results of Mohave Ground Squirrel Protocol Surveys for the Electric Vehicle (EV) Charging Truck Stop and Auto Distribution Center Project, Barstow, San Bernardino County, California

Dear Ms. Amoaku:

The purpose of this report is to document the results of a California Department of Fish and Wildlife (CDFW) protocol survey for Mohave ground squirrel (*Xerospermophilus mohavensis*; MGS) conducted by Dipodomys Ecological Consulting LLC (DEC) for the Electric Vehicle (EV) Charging Truck Stop and Auto Distribution Center Project (project). Presented in this report are a description of the project, project location, the biological setting of the site, MGS natural history, survey methodology, results of trapping efforts for MGS, and conclusions.

Project Description and Location

EVC Partners, LLC proposes to develop an electric vehicle charging station and auto distribution center on a 100-acre parcel. The 100-acre project is located within the City of Barstow in San Bernardino County. The project is bordered by Lenwood Road on the west, and Agate Road on the north. The southern and eastern boundaries of the project are bordered by an unnamed dirt road on the south and undeveloped desert land on the east (**Figures 1 and 2**). Surrounding land use includes a residential development to the south and a farmhouse to the north. The east and west portions of the site are surrounded by undeveloped desert land. The primary source of disturbance is past and current off-highway vehicle (OHV) activity. The project sites can be found on U.S. Geological Survey (USGS) 7.5-minute Barstow topographic quadrangle map within Section 8, Township 9 North and Range 2 West, as shown in **Figure 1**, Project Location.

Biological Setting

Four vegetation communities were identified within the project site including: fourwing saltbush scrub (36.310.000), allscale scrub (36.340.00), California jointfir-long leaf jointfir scrub (33.270.00) and creosote bush scrub (CDFW CA Code 33.010.00). Dominant plants present include creosote bush (*Larrea tridentata*), allscale saltbush (*Atriplex polycarpa*), spinescale saltbush (*Atriplex spinifera*), spiny saltbush (*Atriplex confertifolia*), fourwing salt bush *(Atriplex canescens*), pale desert thorn (*Lycium pallidum*), and long-leaved joint-fir (*Ephedra trifurca*). Herbaceous plants present onsite include red-stemmed filaree (*Erodium cicutarium*), rattlesnake weed (*Euphorbia albomarginata*), fiddleneck (*Amsinckia tessellata*), desert lupine (*Lupinus schockleyi*), broad leaved gilia (*Gilia latiflora*), yellow peppergrass (*Lepidium*

flavum), Russian thistle (*Salsola tragus*), short podded mustard (*Hirschfeldia incana*), desert pincushion (*Chaenactis fremontii*), crowned muilla (*Muilla coronata*), Mediterranean grass (*Schismus barbatus*) and foxtail brome (*Bromus madritensis*). Soil consists of sandy dunes and Cajon sand (WebSoil 2023). The project site is located at an elevation of approximately 2,182 feet above mean sea level (amsl).

Mohave Ground Squirrel Natural History

Mohave ground squirrels are medium-sized (210-230mm, 85-130g), diurnal squirrels. Their dorsal pelage is light gray to cinnamon-brown, while their ventral side is creamy. Unlike round-tailed ground squirrels, which occur sympatrically in the southeast portion of their range, MGS have a short, flat tail that is light-colored on its underside, and have brown cheeks instead of white.

MGS inhabit a small geographic area in the western Mojave Desert. This species ranges from Palmdale in the southwest, the Lucerne Valley in the southeast, Olancha in the northwest, and the Avawatz Mountains in the northeast (Gustafson 1993). Although occurrences in the southern portion of their range are rare, occurrences have been documented on the California Natural Diversity Database (CNDDB) as recently as 2011 (Figure 3). Vegetation communities (as classified by the California Native Plant Society) typically associated with MGS include Mojave Creosote Scrub, Shadscale Scrub, Desert Saltbush Scrub, Desert Sink Scrub, and Joshua Tree Woodland. MGS feed primarily on the leaves and seeds of forbs and shrubs. In the northern portion of their range, MGS have been found to feed on spiny hopsage (*Grayia spinosa*), winterfat (*Krascheninnikovia lanata*) and saltbush (*Atriplex* sp.), especially in early spring when forbs are unavailable, during summer when forbs have dried out, and during drought conditions (Leitner and Leitner 1998). Recent studies have also indicated that MGS feed on the following forbs and shrubs: freckled milkvetch (*Astragalus lentiginosus*), Mojave lupine (*Lupinus odoratus*), buckwheat (*Eriogonum* sp.), white mallow (*Eremalche exilis*), fiddleneck, Russian thistle, desert pincushion (*Chaenactis* sp.), Cryptantha (*Cryptantha pterocarya*), Coreopsis (*Leptosyne bigelovii*), Valley lessingia (*Lessingia glandulifera*), desert dandelion (*Malacothrix glabrata*), Phacelia (*Phacelia* sp.), wire lettuce (*Stephanomeria* sp.) Anderson's desert thorn (*Lycium andersonii*), spiny horsebrush (*Tetradimya spinosa*), and Joshua tree *(Yucca brevifolia*) (Leitner and Leitner 2017).

MGS have adapted to live in hot desert environments by limiting their activity aboveground through estivation and hibernation. The timing of emergence from hibernation varies by location: in the northern portion of their range male MGS emerge mid-March (Leitner and Leitner 1998); however, in the southern portion of their range, MGS may emerge as early as mid-January (Recht 1977). Throughout their active period, MGS store fat in preparation for estivation, which typically occurs between July and September, but may occur as early as April or May during drought conditions (Leitner et al. 1995). MGS reproduction is dependent on fall and winter rains and individuals may forgo breeding entirely if low rainfall (<80mm) results in reduced herbaceous plants (Leitner and Leitner 2017).

Throughout the range of MGS, they may co-occur with antelope ground squirrels (*Ammospermophilus leucurus*), round-tailed ground squirrels (*Xerospermophilus tereticaudus*) (**Table 1**), and California ground squirrels (*Otospermophilus beecheyi*). MGS may be misidentified with round-tailed ground squirrels, but this is unlikely to occur with antelope ground squirrels, because the latter species has white dorsal stripes that makes them resemble a chipmunk more than an MGS. California ground squirrels are also notably larger and are not typically confused with MGS.

MGS are classified as threatened and are protected under the California Endangered Species Act. Primary threats to MGS include limited distribution, low abundance, and habitat loss from by converting suitable habitat to urban, suburban, agricultural and military land uses (Gustafson 1993, Leitner and Leitner 2017).

TABLE 1
RTGS AND MGS CHARACTERISTICS

	RTGS	MGS
Head and body length (mm)	130-181	128-165
Tail length (mm)	70-112	50-72
Weight (g)	110-200	70-300
Back pelage appearance	Back dull gray brown or pale cinnamon	Back pale pinkish brown finely flecked with white
Tail appearance	Tail long and narrow, round in profile	Tail narrow at base, tufted and somewhat banded near tip, flattened in profile
Tail color	Edge and underside pale brown	Edge and underside of tail white
Social structure	Semi-colonial	Solitary except when breeding

From: Peterson Field Guide-Mammals of North America F. Reid 4th Edition (2006)

Methods

Mohave ground squirrel (MGS) Protocol surveys for the EV Charging Truck Stop and Auto Distribution Center Project MGS were conducted in accordance with the 2010 CDFW MGS Survey Guidelines and consisted of an initial visual survey followed by live trapping and camera trapping efforts. Details for each survey type are described below.

Visual Survey

An initial review of the California Natural Diversity Database (CNDDB) was conducted prior to the visual assessment to determine the historical recorded occurrences of MGS near the project site (**Figure 3**). The visual survey was conducted by Principal Investigator Karla Flores (MOU and Scientific Collection Permit SC-10572) and Principal Investigator Karl Fairchild (SCP S-182820007-18333-001) on March 14, 2023. The visual survey consisted of driving and walking throughout the project site to identify suitable habitat for MGS. This included identifying plants known to provide forage material for MGS such as spiny hopsage, winterfat, Cooper's boxthorn, Anderson's desert thorn, and Joshua tree (Leitner 2022). Areas supporting suitable habitat for MGS where these plants are concentrated were recorded on an aerial map. Suitable soil types for burrowing and burrow densities were also noted.

Live Trapping

Live trapping surveys were conducted by Karla Flores and consisted of setting up two 50-trap 5x10 survey grids (140mx315m) within the northern and southern portions of the project parcel. Both grids encompassed representative habitat types. Coordinate locations for the northern and southern grids are listed in **Table 2**. Traps in each grid were spaced 35 meters apart and utilized XLK Sherman live-traps (3x3.75x12") with accompanying A-frame cardboard shade covers staked to the ground with metal tent stakes. All traps were baited with 4-way livestock feed and peanut butter powder and were opened within one hour of sunrise and were checked no more than every four hours. All traps were closed within hour of sunset. Trapping was conducted when temperatures were between 50- and 90-degrees Fahrenheit, and

inclement conditions (rain, thunderstorms) were not present. All animals captured were released at their capture location, and the following information recorded for each capture: species, weight, age, sex, and reproductive condition. Live-trapping surveys were conducted for a period of five days in each of the three survey windows established by the MGS survey guidelines (1st: March 15-April 3; 2nd May 1-31;3rd June 15-July 15). Details for each survey period are presented in **Table 3.** MGS Survey and Trapping Forms, including weather details, are presented in **Attachment A** and **Attachment B**.

Beginning in Session 1, some of the squirrels captured displayed characteristics of RTGS/MGS hybrids. Because of the potential for the hybrid animals to be considered a positive MGS finding, DEC notified Dudek and CDFW on March 21, 2023, and began collecting ear tissue samples for genetic analysis. On May 18, 2023, CDFW notified DEC that CDFW would consider the observations of hybrid animals a positive finding, but that a second trapping session should be conducted to obtain additional tissue samples. As a result of the positive finding, a third trapping session was not conducted.

TABLE 2
UTM COORDINATES FOR CORNERS OF LIVE TRAPPING GRID

Grid	Corner	Zone	Easting	Northing
North	NW	11	489280	3860905
North	NE	11	489595	3860905
North	SW	11	489280	3860765
North	SE	11	489595	3860765
South	NW	11	489280	3860160
South	NE	11	489595	3860160
South	SW	11	489280	3860020
South	SE	11	489595	3860020

*Datum: WGS 1984

TABLE 3
MOHAVE GROUND SQUIRREL SURVEY DATE AND TYPE

Session	Date	Survey Type
1	March 16-20, 2023	LT/CT
2	May 21-25, 2023	LT/CT
3	N/A	LT/CT

LT: Live Trapping CT: Camera Trapping

Camera Trapping

Camera trapping surveys were used to supplement live-trapping efforts and consisted of setting up five camera trapping stations throughout the project site (**Figure 2**). Each camera trap station consisted of a Bushnell Core Low Glow Trail Camera (Model 1199932CB) secured to a 36-inch U-post facing a bait station. The bait station consisted of a feeding tube filled with 4-way livestock feed staked to the ground with a 12-inch railroad spike. Cameras operated 24 hours a day, concurrent with live-trapping surveys, and followed the set-up specifications described in Delaney et al. 2017. Coordinate locations for each camera trap station are listed below in **Table 4**.

Photos from the camera trap stations were downloaded and reviewed by the Principal Investigator after every five-day trapping session. A list of species detected at the camera trap stations is included in **Table 5**.

TABLE 4
COORDINATE LOCATIONS FOR CAMERA TRAP STATIONS

Camera	Zone	Easting	Northing
1	11	489425	3860692
2	11	489544	3860692
3	11	489271	3860641
4	11	489297	3860342
5	11	489500	3860185

*Datum: WGS 1984

Results

Visual Survey

Based on the habitat data collected during the visual survey, MGS habitat is present onsite. Primary MGS food plants such as winterfat are not present onsite. However, other plants identified as being associated with MGS in microhistology and metabarcoding studies (Leitner 2022) are present onsite, these include: creosote bush, fourwing saltbush, allscale, spinescale, spiny saltbush, and fiddleneck. Visual observations of burrows and burrow complexes showed that soil onsite is suitable for burrowing.

Live Trapping

Live-trapping captures consisted of white-tailed antelope ground squirrel, round-tailed ground squirrel (RTGS), and round-tailed ground squirrel-Mohave ground squirrel hybrids (*Xerospermophilus tereticaudus-Xerospermophilus mohavensis*; RTGS-MGS) (**Table 5; Figure 4**). Ear tissue samples from each hybrid were collected for subsequent DNA analysis at the University of Nevada, Reno.

TABLE 5
RESULTS OF MOHAVE GROUND SQUIRREL PROTOCOL SURVEYS

Common name	Scientific name	Session			Total
		1	2	3	
Round-tailed ground squirrel	*Xerospermophilus tereticaudus*	5	1	N/A	6
RTGS-MGS Hybrids	*Xerospermophilus tereticaudus-mohavensis*	11	9	N/A	20
White-tailed antelope ground squirrel	*Ammospermophilus leucurus*	10	9	N/A	19
	Total	26	19		**45**

Camera Trapping

No Mohave ground squirrels were detected in the images collected during the camera trapping surveys. Ten species were observed utilizing the camera trap stations and included: white-tailed antelope ground squirrel, domestic dog, coyote, spiny pocket mouse, kangaroo rat, desert iguana, California ground squirrel, silky pocket mouse, desert cottontail, side-blotched lizard, and desert kit fox (**Table 5**).

TABLE 6
RESULTS OF MOHAVE GROUND SQUIRREL CAMERA TRAPPING

Common Name	Scientific Name
White-tailed antelope ground squirrel	*Ammospermophilus leucurus*
Domestic dog	*Canis familiaris*
Coyote	*Canis latrans*
Spiny pocket mouse sp.	*Chaetodipus sp.*
Kangaroo rat sp.	*Dipodomys sp.*
Desert iguana	*Dipsosaurus dorsalis*
California ground squirrel	*Otospermophilus beecheyi*
Silky pocket mouse sp.	*Perognathus sp.*
Desert cottontail	*Sylvilagus audubonii*
Side-blotched lizard	*Uta stansburiana*
Desert kit fox	*Vulpes macrotis*

Conclusions

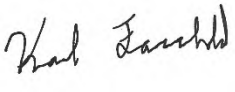
The Electric Vehicle (EV) Charging Truck Stop and Auto Distribution Center Project is located within the eastern portion of the MGS range and is an area known to have sympatric populations of MGS and RTGS. This area is also known to support RTGS and MGS hybrids.

Additionally, the site is located near the Harper Lake MGS core population area as well as the Coolgardie Mesa-Superior Valley core population area and associated peripheral population areas described in the 2019 CDFW MGS Conservation Strategy. California Natural Diversity Database (CNDDB) occurrence details for MGS in the vicinity of the project site (**Figure 3**), indicate that MGS are historically present in the vicinity of the project, but may be extirpated in the immediate project area, and areas to the south and east, potentially due to development and habitat fragmentation. The nearest MGS occurrence to the project site was recorded 1.25 miles north of the project site in 1990. The most recent occurrence of MGS was recorded in 2012, approximately 3.3 miles northwest of the project.

Based on the historical records of MGS occurrences and the presence of RTGS-MGS hybrids, it is likely that a population of MGS was present in the near the project in the near past. Although genetic analysis will confirm the presence of RTGS-MGS hybrids, CDFW has indicated that presence of hybrids onsite will be considered a positive finding by the agency and an incidental take permit (ITP) may be required for future development onsite.

I hereby certify that the information in this report is true, and that it conforms to accepted biological standards. Please feel free to contact Karla Flores by phone at (619) 972-4319 or by email at kflores@dipodomysecological.com or Karl Fairchild by phone at (541) 609-1038 or by email at kfairchild@dipodomysecological.com, with any questions regarding this report.

Sincerely,



Karla L. Flores
Principal Investigator

Karl Fairchild
Principal Investigator

Figures and Attachments
Figure 1-Project Location
Figure 2-Survey Area
Figure 3- Historical MGS Occurrences
Figure 4- Results

Attachment A-CDFW Mohave Ground Squirrel Survey and Trapping Form(s)
Attachment B-Weather Details
Attachment C-Species Compendium
Attachment D-Representative Photographs

References

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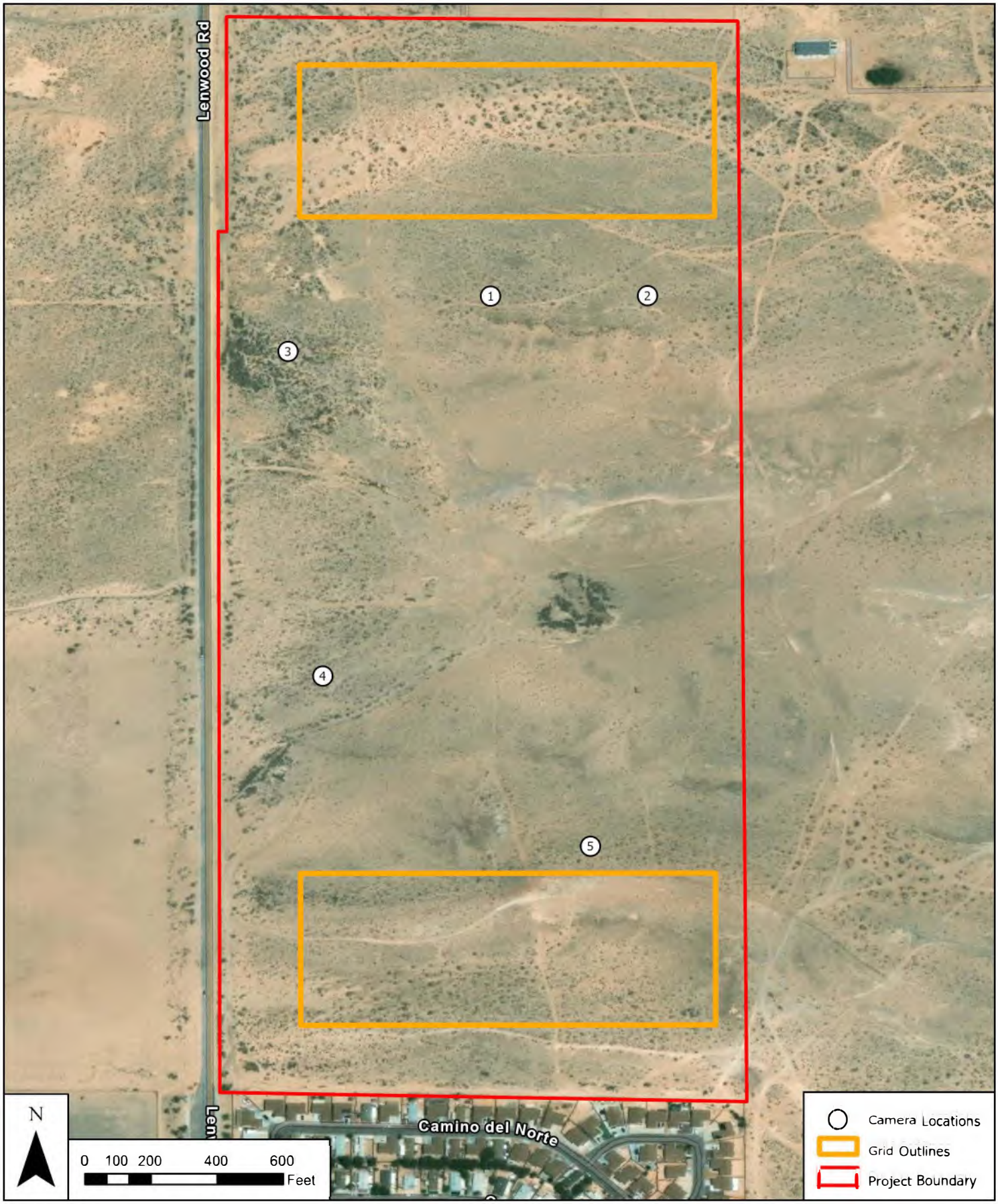
SOURCE: ESRI

EV Charging Truck Stop Project

DIPODOMYS
ECOLOGICAL CONSULTING, LLC

Figure 1

Project Layout



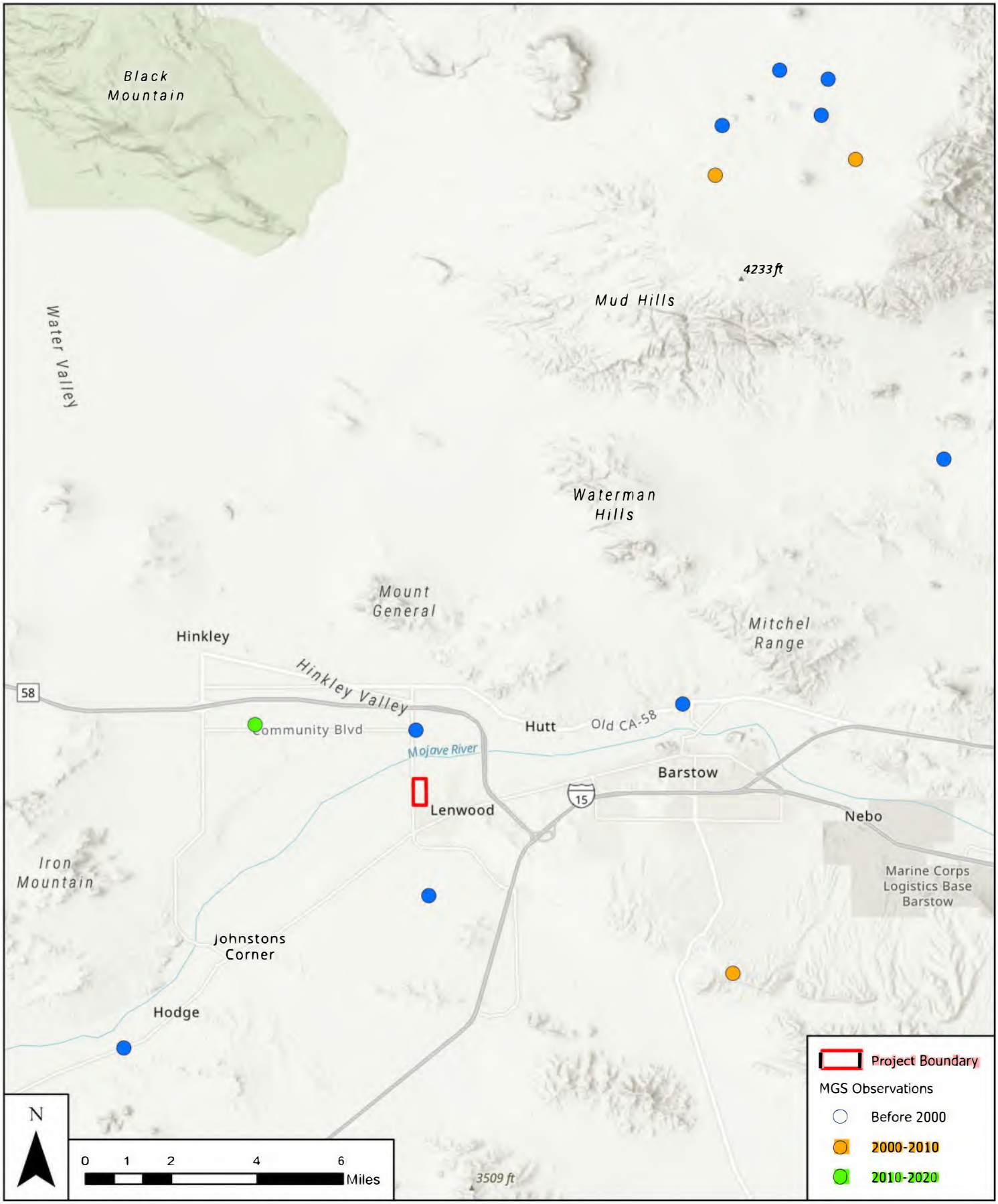
SOURCE: ESRI

EV Charging Truck Stop Project

Figure 2

Survey Area

DIPODOMYS
ECOLOGICAL CONSULTING, LLC



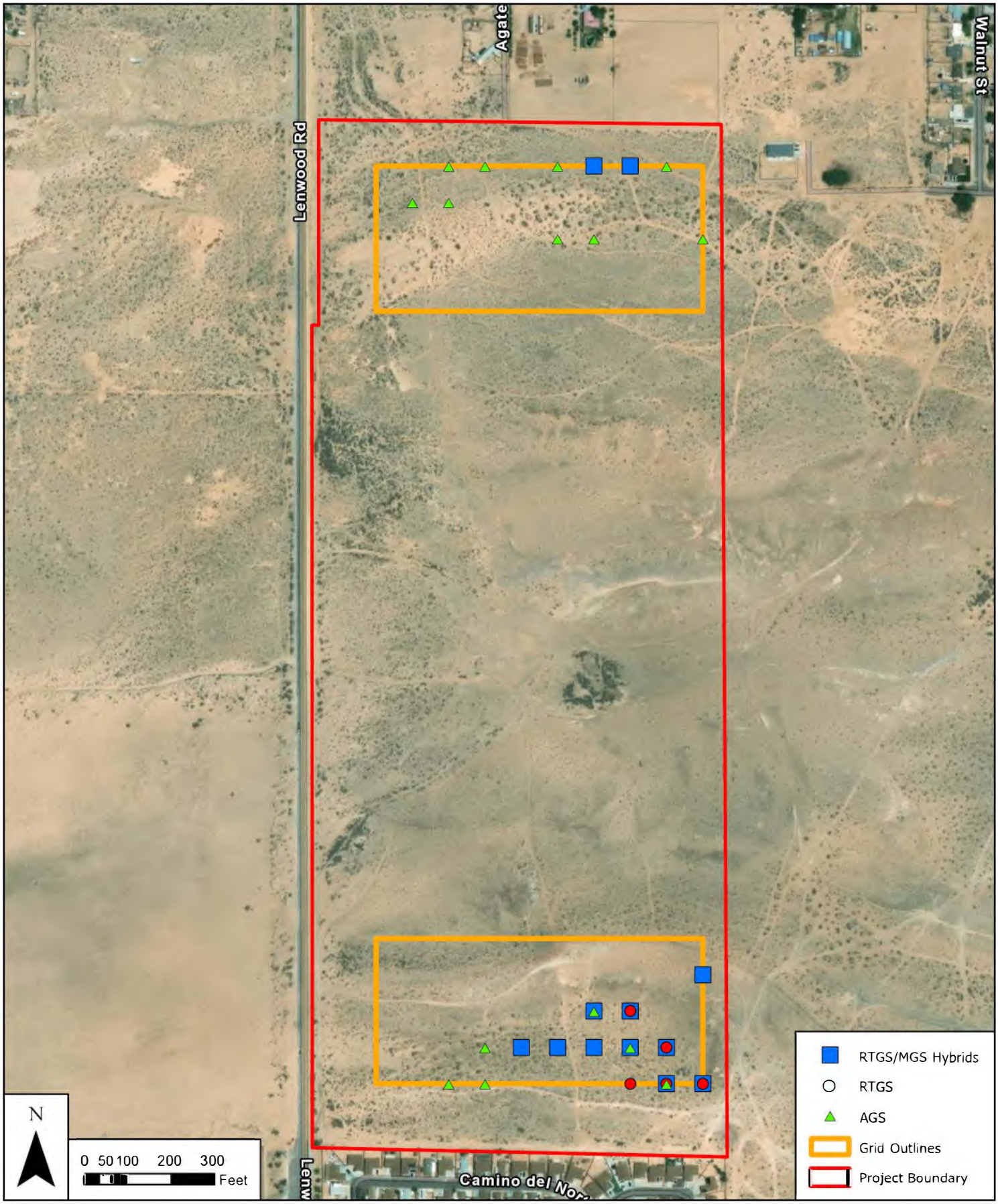
SOURCE: ESRI

EV Charging Truck Stop Project

DIPODOMYS ECOLOGICAL CONSULTING, LLC

Figure 3

Historical MGS Occurrences



SOURCE: ESRI

EV Charging Truck Stop Project

Figure 4

Trapping Results

DIPODOMYS
ECOLOGICAL CONSULTING, LLC

Attachment A

Mohave Ground Squirrel (MGS) Survey and Trapping Form (photocopy as needed)

PART I - PROJECT INFORMATION (use a separate form for each sampling grid)

Project name: Electric Vehicle Charging Truck Stop Project-North Grid Property owner: EVC Partner, LLC

Location: Township 09N; Range 02W; Section 8; ¼ Section _____

Quad map/series: Barstow UTM coordinates: NW: 489280 3860905 NE 489595 3860905 SW: 489280 3860765 SE 489595 3860765
GPS coordinates of trapping-grid corners

Acreage of Project Site: 100 acres Acreage of potential MGS habitat on site: 100 acres

Total acreage visually surveyed on project site: 100 acres Date(s): March 14, 2023
visual surveys

Visual surveys conducted by: Karla Flores and Karl Fairchild
names of all persons by date (use back of form, if needed)

Total acres trapped: 100 acres Number of sampling grids: 2

Trapping conducted by: Karla Flores and Karl Fairchild
names of all persons by sampling term and sampling grid (use back of form, if needed)

Dates of sampling term(s): FIRST March 16-20, 2023 SECOND May 21-25, 2023 THIRD N/A
if required if required

PART II - GENERAL HABITAT DESCRIPTION (use back of form, if needed)
Vegetation: dominant perennials: Creosote bush, allscale, pale desert thorn, longleaf jointfir
other perennials: Spinescale, four-wing saltbush, spiny saltbush
dominant annuals: red-stemmed filaree,desert pincushion, fiddleneck, yellow pepper grass, Mediterranean grass
other annuals: desert lupine, broad leaved gilia, crowned mullia, cryptantha sp., Eremalche sp.

Land forms (mesa, bajada, wash): Dune/plain

Soils description: Dune (sandy) 85%/ Cajon 5%

Elevation: 2,182 feet Slope: 0-15%

PART III - WEATHER (report measurements in the following categories for each day of visual survey and each day of trapping; using 24-hour clock, indicate time of day that each measurement was made; use a separate blank sheet for each day)

Temperature: AIR minimum and maximum; SOIL minimum and maximum; Cloud Cover: % in AM and % in PM; Wind Speed: in AM and in PM

Mohave Ground Squirrel (MGS) Survey and Trapping Form (photocopy as needed)

PART I - PROJECT INFORMATION (use a separate form for each sampling grid)

Project name: Electric Vehicle Charging Truck Stop Project-South Grid Property owner: EVC Partners, LLC

Location: Township 09N; Range 02W; Section 8; ¼ Section _____

Quad map/series: Barstow UTM coordinates: NW 489280 3860160 NE 489595 3860160 SW 489280 3860020 SE 489595 3860020
GPS coordinates of trapping-grid corners

Acreage of Project Site: 100 acres Acreage of potential MGS habitat on site: 100 acres

Total acreage visually surveyed on project site: 100 acres Date(s): March 14, 2020
visual surveys

Visual surveys conducted by: Karla Flores and Karl Fairchild
names of all persons by date (use back of form, if needed)

Total acres trapped: 100 acres Number of sampling grids: 2

Trapping conducted by: Karla Flores and Karl Fairchild
names of all persons by sampling term and sampling grid (use back of form, if needed)

Dates of sampling term(s): FIRST March 16-20, 2023 SECOND May 21-25, 2023 THIRD N/A
if required if required

PART II - GENERAL HABITAT DESCRIPTION (use back of form, if needed)
Vegetation: dominant perennials: Creosote bush, allscale, pale desert thorn, longleaf jointfir
other perennials: Spinescale, four-wing saltbush, spiny saltbush
dominant annuals: red-stemmed filaree, desert pincushion, fiddleneck, yellow pepper grass, Mediterranean grass
other annuals: desert lupine, broad leaved gilia, crowned mullia, cryptantha sp.,

Land forms (mesa, bajada, wash): Dune/plain

Soils description: Dune (sandy) 85%/ Cajon 5%

Elevation: 2,182 feet Slope: 0-15%

PART III - WEATHER (report measurements in the following categories for each day of visual survey and each day of trapping; using 24-hour clock, indicate time of day that each measurement was made; use a separate blank sheet for each day)

Temperature: AIR minimum and maximum; SOIL minimum and maximum; Cloud Cover: % in AM and % in PM; Wind Speed: in AM and in PM

Attachment B

Attachment B: Weather details for California Department of Fish and Wildlife (CDFW) Mohave ground squirrel (*Xerospermophilus mohavensis*) protocol surveys. Details include date, survey (1-3), air temperature (min-max ° Fahrenheit), soil temperature (min-max ° Fahrenheit), wind speed (mph) and percent cloud cover (%).

Date		Air Temperature (°F)		Soil temperature (°F)		Wind (mph)		Cloud Cover (%)	
		Min	Max	Min	Max	Start	End	Start	End
3/16/2023	1	48.6	72.8	41.7	69.2	1.7	3.6	15	25
3/17/2023	1	46.9	71.5	44.6	72.2	2.8	6.4	15	10
3/18/2023	1	47.5	67	42.6	65.3	3.2	5	5	90
3/19/2023	1	49.4	65.3	49.7	63.2	10.1	11.2	100	80
3/20/2023	1	55.7	64.2	48.5	62.3	10	17.4	90	90
5/21/2023	2	69.5	90	77.9	.	1.8	2	40	10
5/22/2023	2	64.4	89.6	68.7	73.3	1.7	3.7	0	5
5/23/2023	2	66.3	88.2	70.6	76.9	1.1	5.4	0	0
5/24/2023	2	59	89.5	67.3	73.9	1.6	7.3	35	5
5/25/2023	2	52.4	81.5	65.9	68.7	3.3	4.9	1	30
NA	3	NA	NA	NA	NA	NA	NA	NA	NA
NA	3	NA	NA	NA	NA	NA	NA	NA	NA
NA	3	NA	NA	NA	NA	NA	NA	NA	NA
NA	3	NA	NA	NA	NA	NA	NA	NA	NA
NA	3	NA	NA	NA	NA	NA	NA	NA	NA

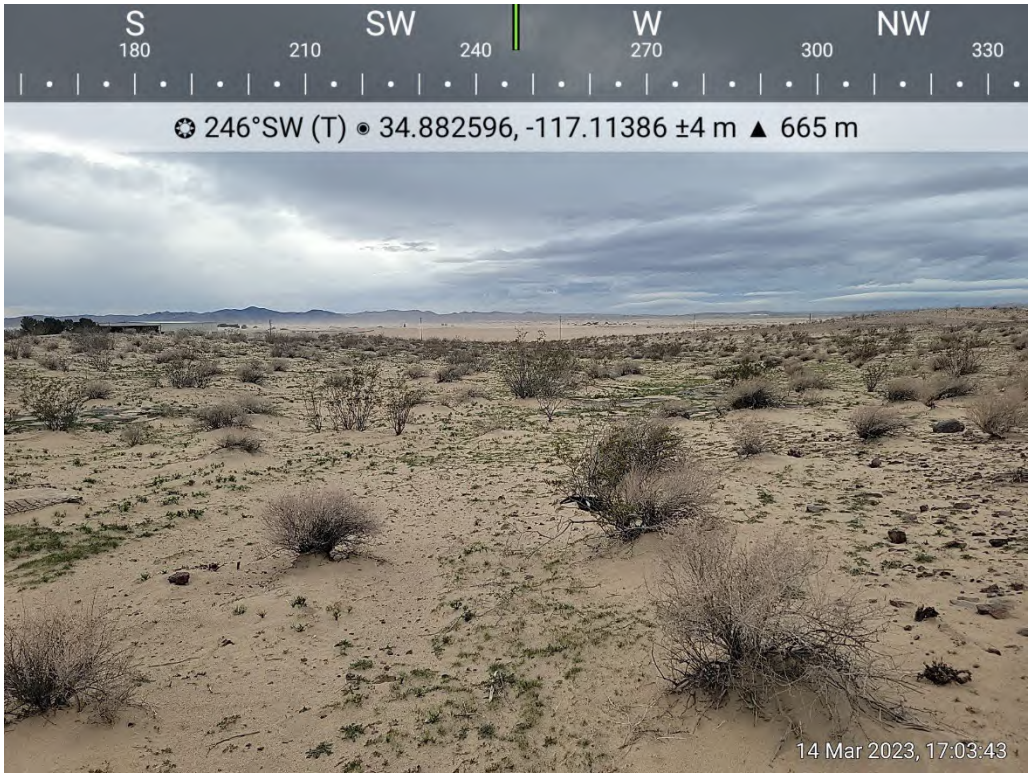
Attachment C

Common name	Scientific name	Special status
Plants-Shrubs		
four-wing salt bush	*Atriplex canescens*	
spiny saltbush	*Atriplex confertifolia*	
allscale	*Atriplex polycarpa*	
spinescale	*Atriplex spinifera*	
longleaf jointfir	*Ephedra trifurca*	
creosote bush	*Larrea tridentata*	
pale desert thorn	*Lycium pallidum*	
Plants Forbs/Grasses		
fiddleneck	*Amsinckia tessellata*	
desert pincushion	*Chaenactis fremontii*	
Mojave spineflower	*Chorizanthe spinosa*	
silver cholla	*Cylindropuntia echinocarpa*	
Parry's mallow	*Eremalche parryi*	
red-stemmed filaree	*Erodium cicutarium*	
broad leaved gilia	*Gilia latiflora*	
short-podded mustard	*Hirschfeldia incana*	
yellow peppergrass	*Lepidium flavum*	
desert lupine	*Lupinus schockleyi*	
Crowned Muilla	*Muilla coronata*	CRPR* 4.2 *
Russian thistle	*Salsola tragus*	
Mediterranean grass	*Schismus barbatus*	
Birds		
verdin	*Auriparus flaviceps*	
red-tailed hawk	*Buteo jamaicensis*	
Anna's hummingbird	*Calypte anna*	
Turkey vulture	*Cathartes aura*	
common raven	*Corvus corax*	
horned lark	*Eremophila alpestris*	
American kestrel	*Falco sparverius*	
house finch	*Haemorhous mexicanus*	
California gull	*Larus californicus*	
Northern mockingbird	*Mimus polyglottos*	
brown-headed cowbird	*Molothrus ater*	
House sparrow	*Passer domesticus*	
black phoebe	*Sayornis nigricans*	
Say's phoebe	*Sayornis saya*	
lesser goldfinch	*Spinus psaltria*	
Eurasian-collared dove	*Streptopelia decaocto*	
Western meadowlark	*Sturnella neglecta*	

Common name	Scientific name	Special status
European starling	*Sturnus vulgaris*	
violet-green swallow	*Tachycineta thalassina*	
western kingbird	*Tyrannus verticalis*	
mourning dove	*Zenaida macroura*	
white-crowned sparrow	*Zonotrichia leucophrys*	
Mammals		
white-tailed antelope ground squirrel	*Ammospermophilus leucurus*	
domestic dog	*Canis familiaris*	
coyote	*Canis latrans*	
kangaroo rat	*Dipodomys sp.*	
black-tailed jack rabbit	*Lepus californicus*	
California ground squirrel	*Otospermophilus beecheyi*	
Desert cottontail	*Sylvilagus audubonii*	
Desert kit fox	*Vulpes macrotis*	
Round-tailed ground squirrel	*Xerospermophilus tereticaudus*	
Reptiles		
desert iguana	*Dipsosaurus dorsalis*	
side-blotch lizard	*Uta stansburiana*	

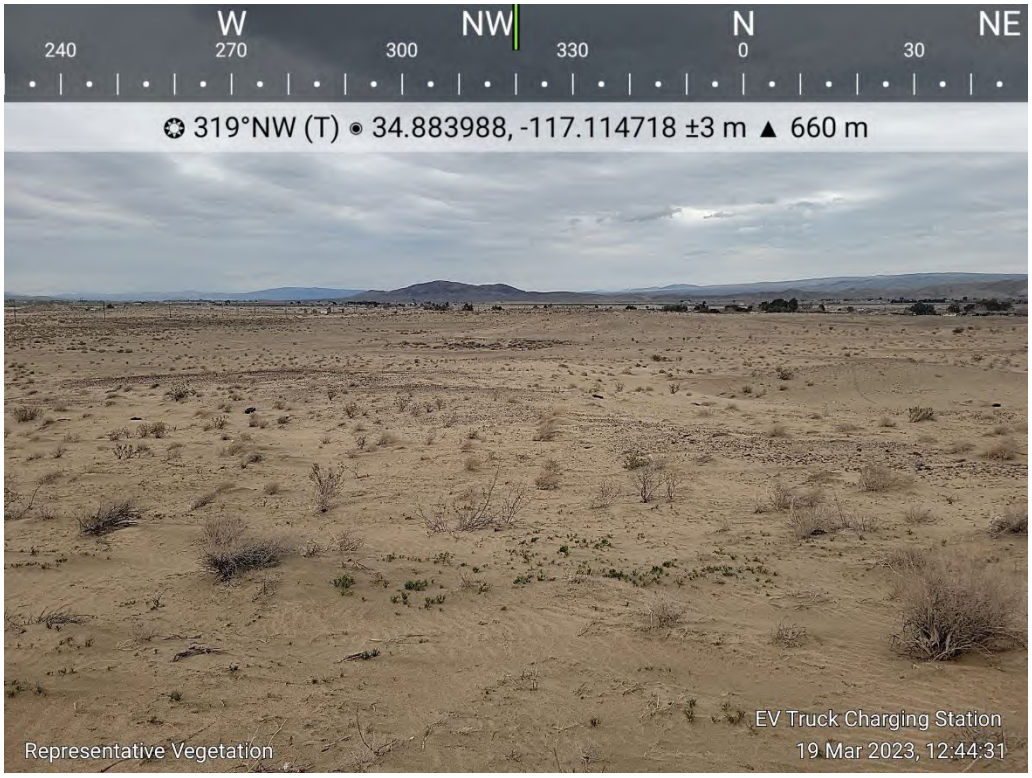
*California Rare Plant Rank

Attachment D



Photograph 1: Creosote bush scrub in southern portion of site.

Photograph 2: Dense saltbush scrub in western portion of site.



Photograph 3: Disturbed and sparse saltbush scrub in central portion of site.

Photograph 4: Dune scrub in north portion of site.

Photograph 5: Representative camera trap station.

Photograph 6: Representative live-trap station.

Photograph 7: Round-tailed ground squirrel (RTGS; *Xerospermophilus tereticaudus*) captured.

Photograph 8: Potential hybrid RTGS-MGS hybrid.

Photograph 9: White -tailed antelope ground squirrel (*Ammospermophilus leucurus*) captured.

Photograph 10: Dsesert kit fox (Vulpes macrotis) visiting at camera station.

Appendix C
Photo Log

Photo No. 1: Image from northwest corner of project site, looking south (obstructed by sand dunes).

Photo No. 2: Image from the northern boundary of project site, south of the sand dunes (see previous photo), looking south.

Photo No. 3: Image from the eastern-central portion of the project site, looking north.

Photo No. 4: Image from the eastern-central portion of the project site, looking south.

Photo No. 5: Image from the southwest corner of project site, looking northeast.

Photo No. 6: Image from the southwest corner of project site, looking east-southeast.

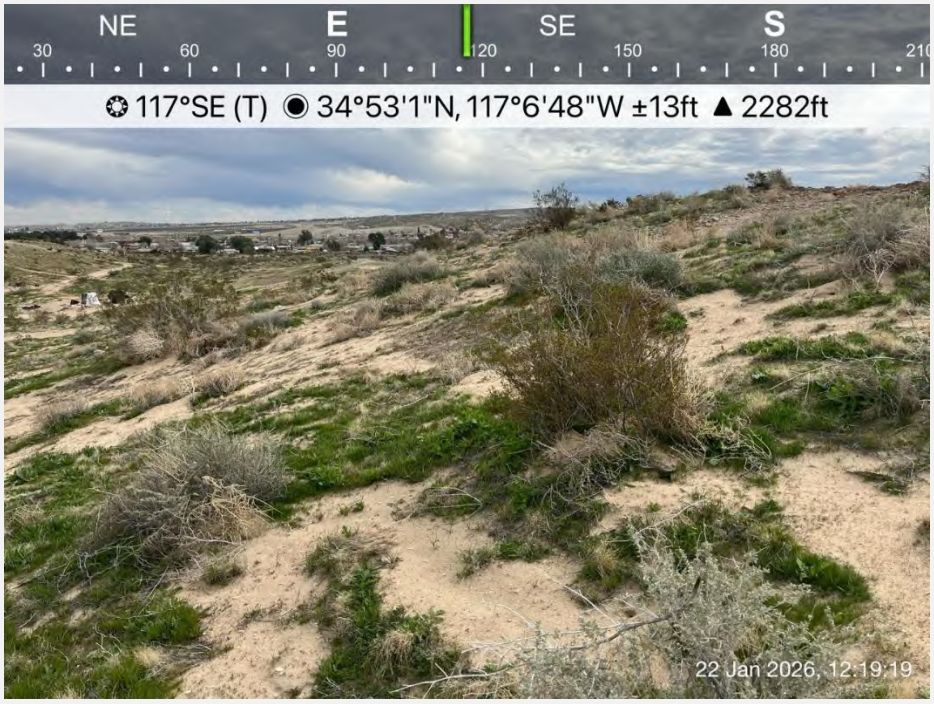


Photo No. 7: Image of the off-site area along project site's eastern boundary, looking east.

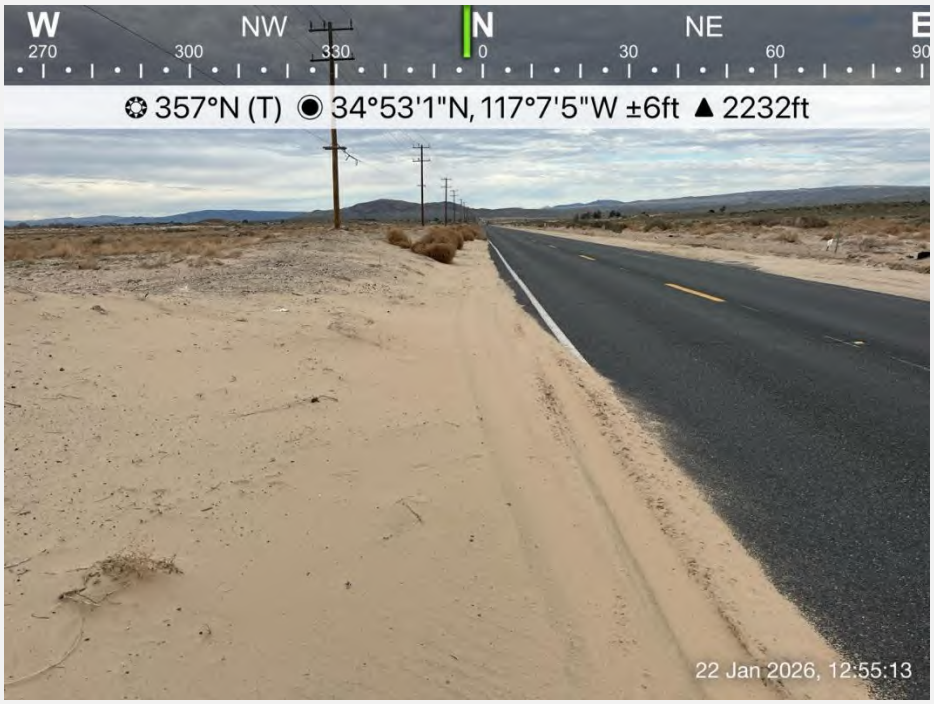


Photo No. 8: Image of the off-site area along Lenwood Road, looking north from southern boundary.

Photo No. 9: Image of the off-site area along Lenwood Road, looking south at the northern boundary of the project site.

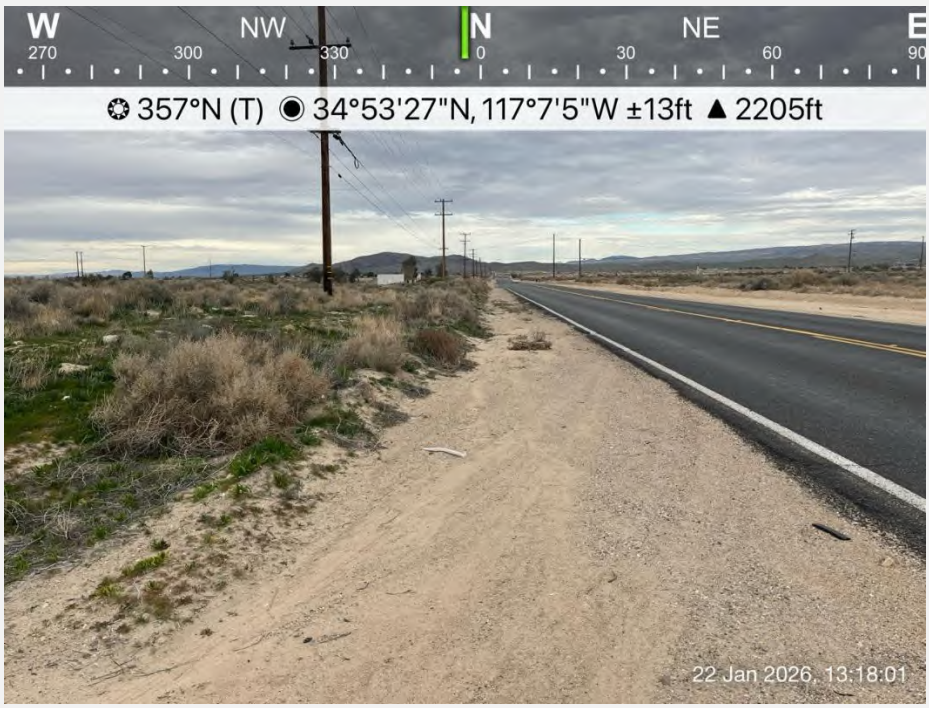


Photo No. 10: Image of the off-site area along Lenwood Road, at the northern boundary of the project site boundary, looking north.

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Appendix D
Plant Compendium

VASCULAR SPECIES

EUDICOTS

ASTERACEAE—Sunflower Family
- Ambrosia acanthicarpa—flatspine bur ragweed
- Ambrosia dumosa—white bursage
- Chaenactis fremontii—pincushion flower
- Dicoria canescens—desert twinbugs

BORAGINACEAE—Borage Family
- Amsinckia intermedia—common fiddleneck
- Amsinckia tessellata var. tessellata—bristly fiddleneck
- Amsinckia tessellata—bristly fiddleneck
- Heliotropium curassavicum var. oculatum—seaside heliotrope

BRASSICACEAE—Mustard Family
- Hirschfeldia incana—shortpod mustard*
- Sisymbrium altissimum—tall tumblemustard*

CACTACEAE—Cactus Family
- Cylindropuntia echinocarpa—silver cholla

CHENOPODIACEAE—Goosefoot Family
- Atriplex canescens—fourwing saltbush
- Atriplex confertifolia—shadscale
- Atriplex polycarpa—allscale
- Atriplex spinifera—spinescale
- Salsola tragus—prickly Russian thistle*
- Stutzia covillei—no common name
- Suaeda nigra—bush seepweed

GERANIACEAE—Geranium Family
- Erodium cicutarium—redstem stork's bill*

MALVACEAE—Mallow Family
- Eremalche parryi—Parry's mallow

POLEMONIACEAE—Phlox Family
- Eriastrum eremicum ssp. eremicum—desert woollystar
- Gilia latiflora—hollyleaf gilia

POLYGONACEAE—Buckwheat Family
- Chorizanthe rigida—rigid spineflower
- Chorizanthe spinosa—Mojave spineflower

SOLANACEAE—Nightshade Family
- Lycium brevipes—Baja desert-thorn

Lycium cooperi—peach thorn
Lycium pallidum—pale desert-thorn
TAMARICACEAE—Tamarisk Family
Tamarix ramosissima—tamarisk*
ZYGOPHYLLACEAE—Caltrop Family
Larrea tridentata—creosote bush

GYMNOSPERMS AND GNETOPHYTES

EPHEDRACEAE—Ephedra Family
Ephedra nevadensis—Nevada joint fir
Ephedra trifurca—longleaf joint-fir

MONOCOTS

POACEAE—Grass Family
Bromus rubens—red brome*
Cynodon dactylon—Bermudagrass*
Hordeum murinum—mouse barley*
Schismus barbatus—common Mediterranean grass*

Appendix E
Wildlife Compendium

Wildlife Species

Birds

Blackbirds, Orioles and Allies

ICTERIDAE – BLACKBIRDS

Sturnella neglecta – western meadowlark

* *Molothrus ater* – brown-headed cowbird

Falcons

FALCONIDAE – CARACARAS AND FALCONS

Falco sparverius – American kestrel

Finches

FRINGILLIDAE – FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous mexicanus – house finch

Spinus psaltria – lesser goldfinch

Flycatchers

TYRANNIDAE – TYRANT FLYCATCHERS

Sayornis nigricans – black phoebe

Sayornis saya – Say's phoebe

Tyrannus verticalis – western kingbird

Hawks

ACCIPITRIDAE – HAWKS, KITES, EAGLES, AND ALLIES

Buteo jamaicensis – red-tailed hawk

Hummingbirds

TROCHILIDAE – HUMMINGBIRDS

Calypte anna – Anna's hummingbird

Jays, Magpies and Crows

CORVIDAE – CROWS AND JAYS

Corvus corax – common raven

Larks

ALAUDIDAE – LARKS

Eremophila alpestris – horned lark

Mockingbirds and Thrashers

MIMIDAE – MOCKINGBIRDS AND THRASHERS

Mimus polyglottos – northern mockingbird

New World Vultures

CATHARTIDAE – NEW WORLD VULTURES

Cathartes aura – turkey vulture

Old World Sparrows

PASSERIDAE – OLD WORLD SPARROWS

* *Passer domesticus* – house sparrow

Pigeons and Doves

COLUMBIDAE – PIGEONS AND DOVES

Zenaida macroura – mourning dove

* *Streptopelia decaocto* – Eurasian collared-dove

Shrikes

LANIIDAE – SHRIKES

Lanius ludovicianus – loggerhead shrike

Starlings and Allies

STURNIDAE – STARLINGS

* *Sturnus vulgaris* – European starling

Swallows

HIRUNDINIDAE – SWALLOWS

Tachycineta thalassina – violet-green swallow

Terns and Gulls

LARIDAE – GULLS, TERNS, AND SKIMMERS

Larus californicus – California gull

Verdin

REMIZIDAE – PENDULINE TITS AND VERDINS

Auriparus flaviceps – verdin

New World Sparrows

PASSERELLIDAE – NEW WORLD SPARROWS

Zonotrichia leucophrys – white-crowned sparrow

Invertebrates

Butterflies

NYMPHALIDAE – BRUSH-FOOTED BUTTERFLIES

Vanessa cardui – painted lady

PIERIDAE – WHITES AND SULFURS

Colias eurytheme – orange sulphur

Pontia protodice – checkered white

Mammals

Canids

CANIDAE – WOLVES AND FOXES

Canis latrans – coyote

Vulpes macrotis arsipus – desert kit fox

Domestic

CANIDAE – WOLVES AND FOXES

* *Canis familiaris* – domestic dog

Hares and Rabbits

LEPORIDAE – HARES AND RABBITS

Lepus californicus – black-tailed jackrabbit

Sylvilagus audubonii – desert cottontail

Squirrels

SCIURIDAE – SQUIRRELS

Ammospermophilus leucurus – white-tailed antelope squirrel
Otospermophilus beecheyi – California ground squirrel
Xerospermophilus tereticaudus – round-tailed ground squirrel
Xerospermophilus tereticaudus × *Spermophilus mohavensis* – Round-tailed ground squirrel × Mohave ground squirrel hybrid

Rodents

HETEROMYIDAE – RODENTS

Chaetodipus spinatus sp. – Spiny pocket mouse
Dipodomys spp. – Kangaroo rat
Perognathus flavus sp. – Silky pocket mouse

Reptiles

Lizards

PHRYNOSOMATIDAE – IGUANID LIZARDS

Uta stansburiana – common side-blotched lizard

IGUANIDAE – IGUANAS

Dipsosaurus dorsalis – desert iguana

* signifies introduced (non-native) species

Appendix F

Special-Status Plants Potentially Occurring within the Biological Survey Area

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Abronia villosa var. *aurita*	chaparral sand-verbena	None/None/1B.1	Chaparral, Coastal scrub, Desert dunes; Sandy/annual herb/(Jan)Mar–Sep/ 245–5,245	**Not expected to occur.** Chaparral sand verbena was not observed during rare plant surveys. Minimal habitat for chaparral sand verbena occurs onsite. Most records of this species occur south of the San Gabriel and San Bernardino mountains (CCH 2023).
Astragalus jaegerianus	Lane Mountain milk-vetch	FE/None/1B.1	Joshua tree "woodland", Mojavean desert scrub; Granitic, Gravelly (sometimes), Sandy (sometimes)/perennial herb/ Apr–June/2,950–3,935	**Not expected to occur**. Lane mountain milk-vetch was not observed during rare plant surveys. While the study area contains suitable Mojavean Desert scrub, it is outside of the species' known elevation range.
Castela emoryi	Emory's crucifixion-thorn	None/None/2B.2	Mojavean desert scrub, Playas, Sonoran desert scrub; Gravelly/perennial deciduous shrub/(Apr)June–July (Sep–Oct)/295–2,375	**Not expected to occur.** Emory's crucifixion thorn was not observed during rare plant surveys. The study area is outside of the known geographic range of the species, with most records occurring southeast of the study area. The nearest mapped CNDDB record is approximately 12 miles east of the study area, near Dagett (CDFW 2023).
Cymopterus deserticola	desert cymopterus	None/None/1B.2	Joshua tree "woodland", Mojavean desert scrub; Sandy/perennial herb/Mar–May/2,065–4,920	**Not expected to occur**. Desert cymopterus was not observed during rare plant surveys. The nearest mapped CNDDB record is approximately 9 miles north of the study area (CDFW 2023).
Diplacus mohavensis	Mojave monkeyflower	None/None/1B.2	Joshua tree "woodland", Mojavean desert scrub; Gravelly (sometimes), Sandy (sometimes), Washes (often)/annual herb/Apr–June/ 1,965–3,935	**Not expected to occur.** Mojave monkeyflower was not observed during rare plant surveys. The study area does not contain suitable habitat for Mojave monkey flower as the site is too disturbed. A rare plant reference check was performed on March 20, 2023 and the

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
				annual herb was observed in flower and with some flowers drying out. The nearest mapped CNDDB record is approximately 2 miles north of the study area, and there are several other records of the species less than 5 miles away (CDFW 2023).
Eriophyllum mohavense	Barstow woolly sunflower	None/None/1B.2	Chenopod scrub, Mojavean desert scrub, Playas/annual herb/Mar–May/ 1,640–3,145	**Not expected to occur.** Barstow woolly sunflower was not observed during rare plant surveys. The nearest mapped CNDDB record is approximately 2.5 miles southeast of the study area, and there are 2 other records less than 5 miles away (CDFW 2023).
Menodora spinescens var. *mohavensis*	Mojave menodora	None/None/1B.2	Mojavean desert scrub; Gravelly, Rocky, Slopes/perennial deciduous shrub/ Apr–May/2,260–6,560	**Not expected to occur**. Mojave menodora was not observed during rare plant surveys. A rare plant reference check was performed on May 20, 2023. Mojave menodora is a large shrub. Mojave menodora was blooming during the reference check. The nearest mapped CNDDB record is approximately 6 miles southeast of the study area (CDFW 2023).
Mentzelia tricuspis	spiny-hair blazing star	None/None/2B.1	Mojavean desert scrub; Gravelly, Sandy, Slopes, Washes/annual herb/ Mar–May/490–4,195	**Not expected to occur**. Spiny-hair blazing star was not observed during rare plant surveys. The nearest mapped CNDDB record is approximately 4 miles east of the study area, however it is a historical record (CDFW 2023).
Mentzelia tridentata	creamy blazing star	None/None/1B.3	Mojavean desert scrub; Gravelly, Rocky, Sandy/annual herb/Mar–May/ 2,295–3,850	**Not expected to occur**. Creamy blazing star was not observed during rare plant surveys. The study area is within the known elevation range of the species and contains suitable Mojavean desert scrub vegetation. Additionally, soils within the

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
				study area are generally sandy (USDA 2023). The nearest mapped CNDDB record is approximately 4 miles east of the study area, however it is a historical record. Other records of the species generally occur 7-10 miles east of the study area (CDFW 2023).
Pediomelum castoreum	Beaver Dam breadroot	None/None/1B.2	Joshua tree "woodland", Mojavean desert scrub; Roadsides, Sandy, Washes/perennial herb/ Apr–May/2,000–5,000	**Not expected to occur**. Beaver Dam breadroot was not observed during rare plant surveys. A rare plant reference check was performed on May 20, 2023 and the plant was observed fruiting. The nearest mapped CNDDB record is approximately 0.5 miles south of the study area, however this record and all other in the vicinity of the study area are historical (CDFW 2023).
Phacelia parishii	Parish's phacelia	None/None/1B.1	Mojavean desert scrub, Playas; Alkaline (sometimes), Clay (sometimes)/annual herb/Apr–May (June–July)/1,770–3,935	**Low potential to occur**. Parish's phacelia was not observed during rare plant surveys but would likely have been dried out onsite. *Amsinkia* species were abundant and dried out throughout the site and have a helicoid cyme similar to *Phacelia*. The study area lacks clay soils, and the study area only contains a few areas of slightly alkaline soil (USDA 2023; Calflora 2023). Additionally, there are no extant CNDDB records of the species within the 9 7.5-minute USGS quadrangles containing the study area (CDFW 2023).
Puccinellia simplex	California alkali grass	None/None/1B.2	Chenopod scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools; Alkaline, Flats, Lake Margins, Vernally Mesic/annual herb/ Mar–May/5–3,050	**Not expected to occur**. California alkali grass was not observed during rare plant surveys. The site lacks vernal pools or alkaline flats. The nearest mapped CNDDB record is approximately 10 miles north of the study area (CDFW 2023).

Known to occur: the species has been documented on the project site by a reliable source.
High potential to occur: the species has not been documented on the project site but is known to recently occur in the vicinity and suitable habitat is present.
Moderate potential to occur: the species has not been documented on the project site or in the vicinity, but the site is within the known range of the species and suitable habitat for the species is present.
Low potential to occur: the species has not been documented on the project site or in the vicinity, but the site is within the known range of the species; however, suitable habitat for the species onsite is of low quality.
Not expected to occur: the project site is outside the known geographic or elevational range of the species and/or the site does not contain suitable habitat for the species.

Status Legend:
FE: Federally listed as endangered
FT: Federally listed as threatened
FC: Federal Candidate for listing
DL: Delisted
SE: State listed as endangered
ST: State listed as threatened
SC: State Candidate for listing
SR: State Rare
CRPR 1A: Plants presumed extirpated in California and either rare or extinct elsewhere
CRPR 1B: Plants rare, threatened, or endangered in California and elsewhere
CRPR 2A: Plants presumed extirpated in California but common elsewhere
CRPR 2B: Plants rare, threatened, or endangered in California but more common elsewhere
CRPR 3: Review List: Plants about which more information is needed
CRPR 4: Watch List: Plants of limited distribution
.1 Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
.2 Moderately threatened in California (20–80% occurrences threatened / moderate degree and immediacy of threat)
.3 Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)
CBR: Considered but Rejected

References

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USDA. 2023. Web Soil Survey. USDA Natural Resources Conservation Service, Soil Survey Staff. Accessed January 2023.http://websoilsurvey.nrcs.usda.gov/.

Appendix G

Special-Status Wildlife Potentially Occurring within the Biological Survey Area

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur[1]
Amphibians				
Anaxyrus californicus	arroyo toad	FE/SSC	Semi-arid areas near washes, sandy riverbanks, riparian areas, palm oasis, Joshua tree, mixed chaparral and sagebrush; stream channels for breeding (typically third order); adjacent stream terraces and uplands for foraging and wintering	**Not expected to occur**. The study area lacks washes/stream channels, riparian areas, palm oasis, Joshua tree, mixed chaparral or sagebrush habitat.
Birds				
Aquila chrysaetos (nesting and wintering)	golden eagle	None/FP, WL	Nests and winters in hilly, open/semi-open areas, including shrublands, grasslands, pastures, riparian areas, mountainous canyon land, open desert rimrock terrain; nests in large trees and on cliffs in open areas and forages in open habitats	**Not expected to occur**. While the study area contains open shrubland habitat that may be suitable for foraging habitat, it lacks trees or cliffs necessary for nesting.
Athene cunicularia (burrow sites and some wintering sites)	burrowing owl	BCC/SCE	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	**High potential to occur**. The study area contains open scrub habitat, with some small mammal burrows. The nearest mapped CNDDB record is approximately 1 mile southeast of the study area (CDFW 2023).
Charadrius montanus (wintering)	mountain plover	BCC/SSC	Winters in shortgrass prairies, plowed fields, open sagebrush, and sandy deserts	**Low potential to occur**. The study area lacks shortgrass prairies, plowed fields, or open sagebrush habitat. While it contains sandy desert areas, the only CNDDB record of the species in the 7.5-minute quadrangles containing the study area is mapped approximately 11 miles northwest of the study area (CDFW 2023).
Coccyzus americanus occidentalis (nesting)	western yellow-billed cuckoo	FT/SE	Nests in dense, wide riparian woodlands and forest with well-developed understories	**Not expected to occur**. The study area lacks riparian woodland or forest habitat necessary to support this species.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur[1]
Lanius ludovicianus (nesting)	loggerhead shrike	None/SSC	Nests and forages in open habitats with scattered shrubs, trees, or other perches	**Known to occur**. A logger head shrike was observed on site by Dudek biologists on January 23, 2023, during the biological reconnaissance survey.
Toxostoma lecontei	LeConte's thrasher	BCC/SSC	Nests and forages in desert wash, desert scrub, alkali desert scrub, desert succulent, and Joshua tree habitats; nests in spiny shrubs or cactus	**Moderate potential to occur**. The study area contains desert scrub, with spiny shrub species such as *Lycium* and *Atriplex* that may provide suitable nesting habitat. The nearest mapped CNDDB record is approximately 4 miles east of the study area in Barstow proper (CDFW 2023). While this is a historical record, there are a few current sightings of the species less than 5 miles from the study area (eBird 2023).
Fishes				
Siphateles bicolor mohavensis	Mohave tui chub	FE/FP, SE	Lacustrine ponds or pools; 4 feet min water depth; freshwater flow; mineralized and alkaline environment; habitat for aquatic invertebrate prey and egg attachment substrate; Ruppia maritima preferred for egg attachment and thermal refuge in summer months	**Not expected to occur**. The study area lacks surface water features.
Invertebrates				
Danaus plexippus plexippus pop. 1	monarch - California overwintering population	FC/None	Wind-protected tree groves with nectar sources and nearby water sources	**Not expected to occur**. The study area lacks wind-protected tree groves and nearby water sources. Additionally, this species generally overwinters in proximity to the ocean, where winter temperatures are milder.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur[1]
Mammals				
Corynorhinus townsendii	Townsend's big-eared bat	None/SSC	Mesic habitats characterized by coniferous and deciduous forests and riparian habitat, but also xeric areas; roosts in limestone caves and lava tubes, human-made structures, and tunnels	**Not expected to occur.** While the study area contains xeric desert scrub habitat, it lacks limestone caves, lava tubes, human-made structures, or tunnels for roosting. The nearest mapped CNDDB record is approximately 14 miles northeast of the study area in the Calico mountains (CDFW 2023).
Spermophilus (Xerospermophilus) mohavensis	Mohave ground squirrel	None/ST	Desert scrub habitats including those dominated by creosote bush and burrobrush, desert sink scrub, and desert saltbush scrub	**Potentially Present**. Focused trapping surveys were conducted in the northern and southern portions of the site. Round-tailed ground squirrels (*Xerospermophilus tereticaudus*) exhibiting some Mohave ground squirrel characteristics were detected. CDFW stated they would consider these hybrids as a positive presence for Mohave ground squirrel. The study area contains desert scrub with creosote bush, as well as saltbush scrub. Additionally, Mohave ground squirrel is known to prefer sandy to gravelly soils, which are present within the review area (Johnson et al. 2019; USDA 2023). Some small mammal burrows were observed within the study area, though many appeared to be inactive. The nearest mapped CNDDB record is approximately 1 mile north of the study area. Additionally, there are several other records of the species within 5 miles of the study area (CDFW 2023).

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur[1]
Taxidea taxus	American badger	None/SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils	**Low potential to occur**. While the study area is dry and open, with friable soils, it lacks grasslands, coastal scrub, agriculture, or pasture habitat. The only CNDDB record within the nine 7.5-minute USGS quadrangles containing the study area is approximately 7.5 miles northwest of the study area near Old Bakersfield Highway (CDFW 2023).
Vulpes macrotis arsipus	desert kit fox	None/None[1]	Sparse vegetated scrub habitats such as creosote scrub communities that support abundant rodent populations (Center for Biological Diversity 2013)	**High potential to occur**. An active desert kit fox burrow complex and tracks were incidentally observed on site by a Dudek biologist during desert tortoise surveys.
Reptiles				
Gopherus agassizii	Mojave desert tortoise	FT/ST	Arid and semi-arid habitats in Mojave and Sonoran Deserts, including sandy or gravelly locations along riverbanks, washes, sandy dunes, canyon bottoms, desert oases, rocky hillsides, creosote flats, and hillsides	**Low potential to occur**. While the study area contains creosote flats, some sandy dunes, and sandy hillsides that could provide suitable habitat to this species, no desert tortoise or their sign were observed during focused surveys in January 2023. The southwestern end of the study area overlaps with a CNDDB delineated area containing what was historically the largest of four primary populations in California (CDFW 2023).
Uma scoparia	Mohave fringe-toed lizard	None/SSC	Loose wind-blown sand dunes, flats with sandy hummocks, washes, and banks of rivers	**High potential to occur**. The study area contains areas of loose wind-blown dunes, and flats with sandy hummocks. Additionally, the study area contains shrubs and annual plants which may support arthropods, a part of the Mohave fringe-toed lizard diet. The nearest mapped CNDDB record is approximately 1

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur[1]
				mile southwest of the study area (CDFW 2023).

Notes: CNDDB = California Natural Diversity Database; USGS = U.S. Geological Survey.

[1] Definitions for potential to occur:

Present: the species has been documented on the project site by a reliable source.

High potential to occur: the species has not been documented on the project site but is known to recently occur in the vicinity and suitable habitat is present.

Moderate potential to occur: the species has not been documented on the project site or in the vicinity, but the site is within the known range of the species and suitable habitat for the species is present.

Low potential to occur: the species has not been documented on the project site or in the vicinity, but the site is within the known range of the species; however, suitable habitat for the species on site is of low quality.

Not expected to occur: the project site is outside the known geographic or elevational range of the species and/or the site does not contain suitable habitat for the species.

Status Legend

Federal

BCC: USFWS—Birds of Conservation Concern
FC: Candidate for federal listing as threatened or endangered
FE: Federally listed as endangered
FT: Federally listed as threatened

State

FP: CDFW Fully Protected species
SCE: State candidate for listing as endangered
SE: State listed as endangered
SSC: California Species of Special Concern
ST: State listed as threatened
WL: CDFW Watch List species

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Appendix D

Cultural Resources Inventory and Evaluation Report

Cultural Resources Inventory and Evaluation Report

Electric Vehicle Charging Station and Logistics Facility, San Bernardino County, California

REVISED FEBRUARY 2026

Lead Agency:

SAN BERNARDINO COUNTY
385 N. Arrowhead Avenue
San Bernardino, CA 92415

Project Proponent:

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2410 Fair Oaks Boulevard
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Contact: Phil Angelides

Prepared by:

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This report was prepared by Dudek Archaeologists Roshanne Bakhtiary, MA; Adam Giacinto, MA, RPA; Jessica Colston, BA; Loukas Barton, PhD, RPA; and Micah Hale, PhD, RPA. All fieldwork, reporting, and development of management recommendations were completed by specialists meeting the Secretary of the Interior's professional qualifications standards for archaeology. This report is intended for the exclusive use of the Client and its representatives. It contains professional conclusions and recommendations concerning the potential for project-related impacts to cultural resources based on the results of Dudek's investigation. It should not be considered to constitute project clearance with regard to the treatment of cultural resources or permission to proceed with the project described in lieu of review by the appropriate reviewing or permitting agency. This report should be submitted to the appropriate state and local review agencies for their comments prior to the commencement of the project.

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A (Confidential) SCCIC Records Search Results

B (Confidential) Cultural Resources Overview Map
C (Confidential) California DPR Site Forms
D NAHC Sacred Lands File Search
E Sub-surface Testing Plan
F (Confidential) Sub-surface Testing Results

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National Archaeological Database (NADB) Information

Authors:	Loukas Barton, PhD, RPA; Adam Giacinto, MA, RPA; Roshanne Bakhtiary, MA; Jessica Colston, BA; Micah Hale, PhD, RPA
Firm:	Dudek
Project Proponent:	EVC Partners LLC
Report Date:	February 2026
Report Title:	Cultural Resources Inventory and Evaluation Report for the Electric Vehicle Charging Station and Logistics Facility, San Bernardino County, California
Type of Study:	Cultural Resources Inventory
Resources:	P-36-003677, P-36-005076, LE-S-001, LE-I-001, LE-I-002, LE-I-003, LE-I-004, LE-I-005, and LE-I-006
USGS Quads:	Barstow, California 1:24,000; T 9N, R 2W, Section 8
Acreage:	100 acres
Permit Numbers:	N/A
Keywords:	Barstow USGS 7.5-Minute Quadrangle; Positive; San Bernardino County; Intensive Pedestrian Survey; P-36-003677; P-36-005076; LE-S-001; Isolates; Not CRHR eligible; Not significant under CEQA

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Management Summary

Dudek conducted a cultural resources inventory study for the proposed Electric Vehicle (EV) Charging Station and Logistics Facility (Project) in the census-designated place (CDP) of Lenwood, San Bernardino County, California. The Project area is located on Lenwood Road between California Highway 58 (SR 58) and Interstate 15 (I-15), and falls within Section 8 of Township 9 North, and Range 2 West of the Barstow, California United States Geological Survey (USGS) 7.5-minute Quadrangle (Figure 1, Project Location). The Project proponent proposes to develop the approximately 100-acre Project area into (1) an EV charging station to serve light duty/passenger vehicles and medium and heavy-duty trucks, and (2) a state-of-the-art concrete tilt-up logistics facility of 1,341,432 square feet in three buildings. The Project area encompasses Assessor Parcel Numbers (APNs) 0497-142-03, 0497-142-04, 0497-142-14, and 0497-142-15 (Figure 2, Project Area).

This study was completed under the provisions of local regulations as well as the California Environmental Quality Act (CEQA). Public Resources Code (PRC) Section 5024.1, Title 14 California Code of Regulations (CCR) Section 15064.5 of the CEQA Guidelines, and PRC Sections 21083.2 and 21084.1 were also used as basic guidelines for this cultural resource study (Governor's Office of Planning and Research 1998). PRC Section 5024.1 requires the identification and evaluation of cultural resources to determine their eligibility for listing in the California Register of Historical Resources (CRHR). San Bernardino County has been identified as the lead agency for this Project and is responsible for compliance with CEQA and local regulations.

Dudek conducted a records search of the proposed Project area and the surrounding one-mile radius at the South Central Coastal Information Center (SCCIC). The records search identified two previously recorded cultural resources that intersect the Project area, and another 47 previously recorded cultural resources within a one-mile radius of the Project area. The two previously recorded cultural resources that intersect the Project area include two prehistoric lithic quarries/lithic scatters (P-36-003677 and P-36-005076). A search of the Native American Heritage Commission's (NAHC) Sacred Lands File (SLF) did not identify any previously recorded Native American cultural resources within the Project area or a one-mile radius of the Project area. A review of historic topographic maps and aerial imagery indicate that the Project area has remained undeveloped since at least 1952. There is evidence from the historic aerial imagery to indicate that the Project area has been used in the past for off-road travel, rockhounding, and other recreational activities.

Dudek conducted a cultural resources pedestrian survey of the Project area on April 14 and July 6, 2023. The survey crew successfully relocated both previously recorded cultural resources (P-36-003677 and P-36-005076) within the Project area. Additionally, seven newly identified cultural resources were recorded within the Project area during this pedestrian survey. These newly identified cultural resources include a prehistoric lithic scatter (LE-S-001), three prehistoric lithic isolates (LE-I-002, LE-I-004, and LE-I-005), and three historic-era isolates (LE-I-001, LE-I-003, and LE-I-006). Isolates are categorically ineligible for listing on the CRHR and not considered to be to be significant under CEQA. Both previously recorded cultural resources and LE-S-001 required formal evaluation for eligibility for listing on the CRHR and for significance under CEQA and local regulations prior to Project implementation. P-36,003677, P-36-005076, and LE-S-001 were formally evaluated as part of this effort and are recommended to not be eligible for listing on the CRHR and are not significant under CEQA and local regulations.

Pursuant to the requirements outlined by San Bernardino County following input from Consulting Tribes, Dudek conducted limited-scope sub-surface testing on March 4, 2025, for buried cultural resources within the proposed Project site but beyond the boundaries of known cultural resources. On July 22 and July 24, 2025, Dudek was on

site to observe stratigraphy exposed during geotechnical fault-slip trenching. Both efforts were designed to evaluate potential for buried cultural resources. No significant cultural resources were identified during either effort and no subsurface stratigraphy with high potential for buried cultural resources were identified.

New California Department of Parks and Recreation (DPR) 523 forms were prepared for the seven newly identified resources, and DPR 523 form updates were prepared for the two previously recorded and relocated resources. All DPR 523 forms will be submitted to the SCCIC of the California Historical Resources Information System (CHRIS) at California State University, Fullerton.

Dudek recommends archaeological monitoring around known archaeological sites during ground disturbing activities for the Project. The requirement for Native American monitoring should be determined by the lead agency, through the process of consultation pursuant to Assembly Bill 52.

1 Introduction

1.1 Project Location and Description

The proposed Project is located on Lenwood Road between SR 58 and I-15, in the census-designated place of Lenwood, San Bernardino County, California. The Project falls within Section 8 of Township 9 North, and Range 2 West of the Barstow, California USGS 7.5-minute Quadrangle (Figure 1, Project Location) and encompasses 0497-142-03, 0497-142-04, 0497-142-14, and 0497-142-15 (Figure 2, Project Area).

The Project proponent proposes to develop the approximately 100-acre Project area into (1) an EV charging station to serve light duty/passenger vehicles and medium and heavy-duty trucks, and (2) a state-of-the-art concrete tilt-up logistics facility of 1,341,432 square feet in three buildings.

The proposed Project would also contain associated site improvements, including landscaping, parking, required utility facilities and upgrades, a drainage basin, and a buffer (e.g., landscaping, wall) at the project's southern boundary. Access to and from the Project area would be via Lenwood Road.

EV Charging Station

The proposed approximately 21-acre EV charging station would provide EV charging for light duty/passenger vehicles and medium and heavy-duty trucks.

The proposed EV charging station would provide a range of EV chargers to serve different charging needs (e.g., automobiles vs medium and heavy-duty trucks; slower chargers for overnight truck charging vs: MCS charging for trucks, etc.).

The EV charging station would also include a commercial building of up to 15,000 square feet that would contain ancillary uses (e.g., food, convenience services, showers for travelers, other amenities, etc.) for those utilizing the hub, as well as for local residents and nearby light industrial uses.

Logistics Facility

The remainder of the site, approximately 80-acres, would include a proposed logistics facility to meet the demand for highly functional, efficient logistics buildings that meet contemporary industry standards. The facility would consist of three buildings, each comprising 447,144 square feet, with a total square footage of 1,341,432.

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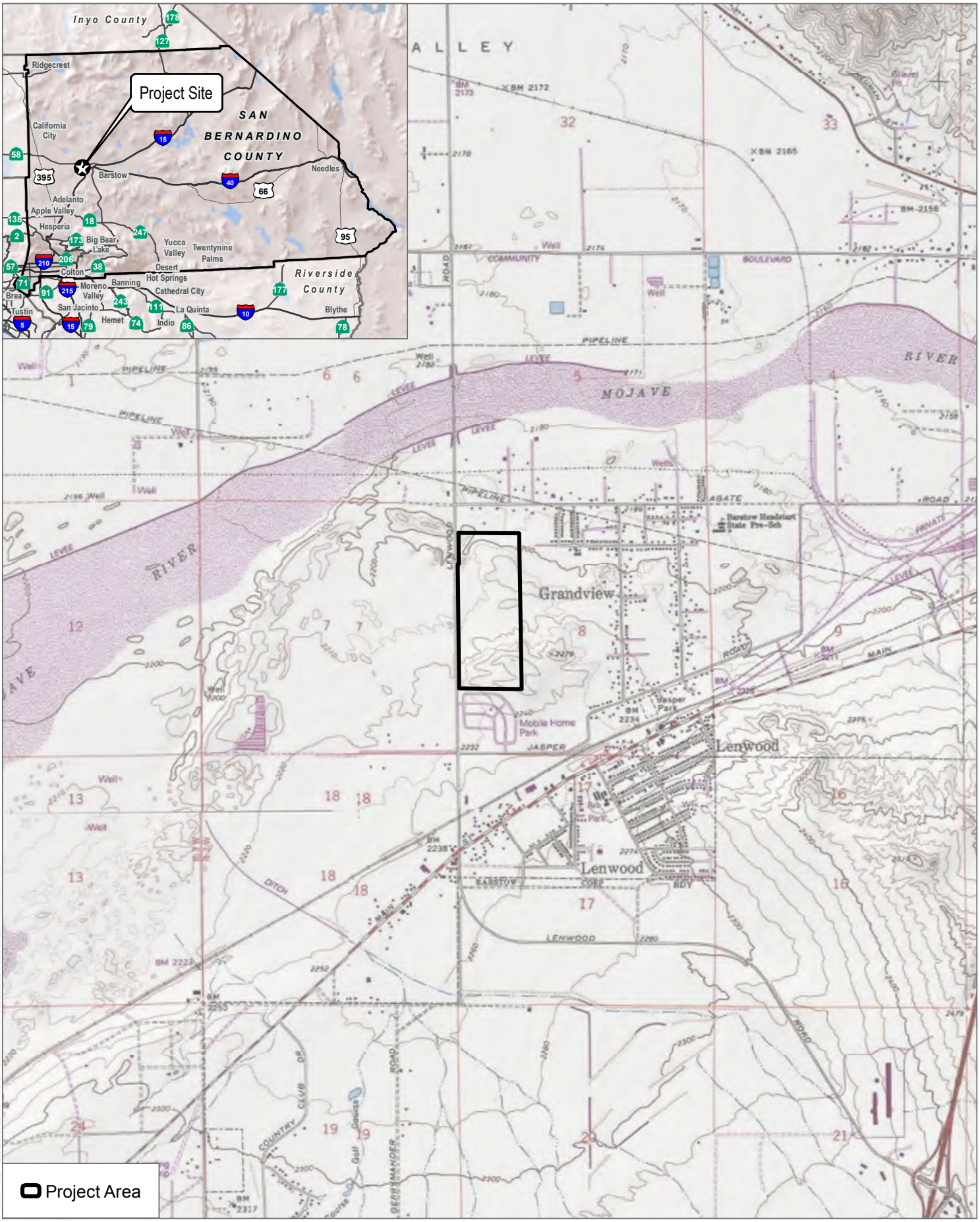

SOURCE: USGS 7.5-Minute Series Barstow Quadrangle

DUDEK

0 400 800 Meters

FIGURE 1

Project Location

EV Charging Truck Stop Project

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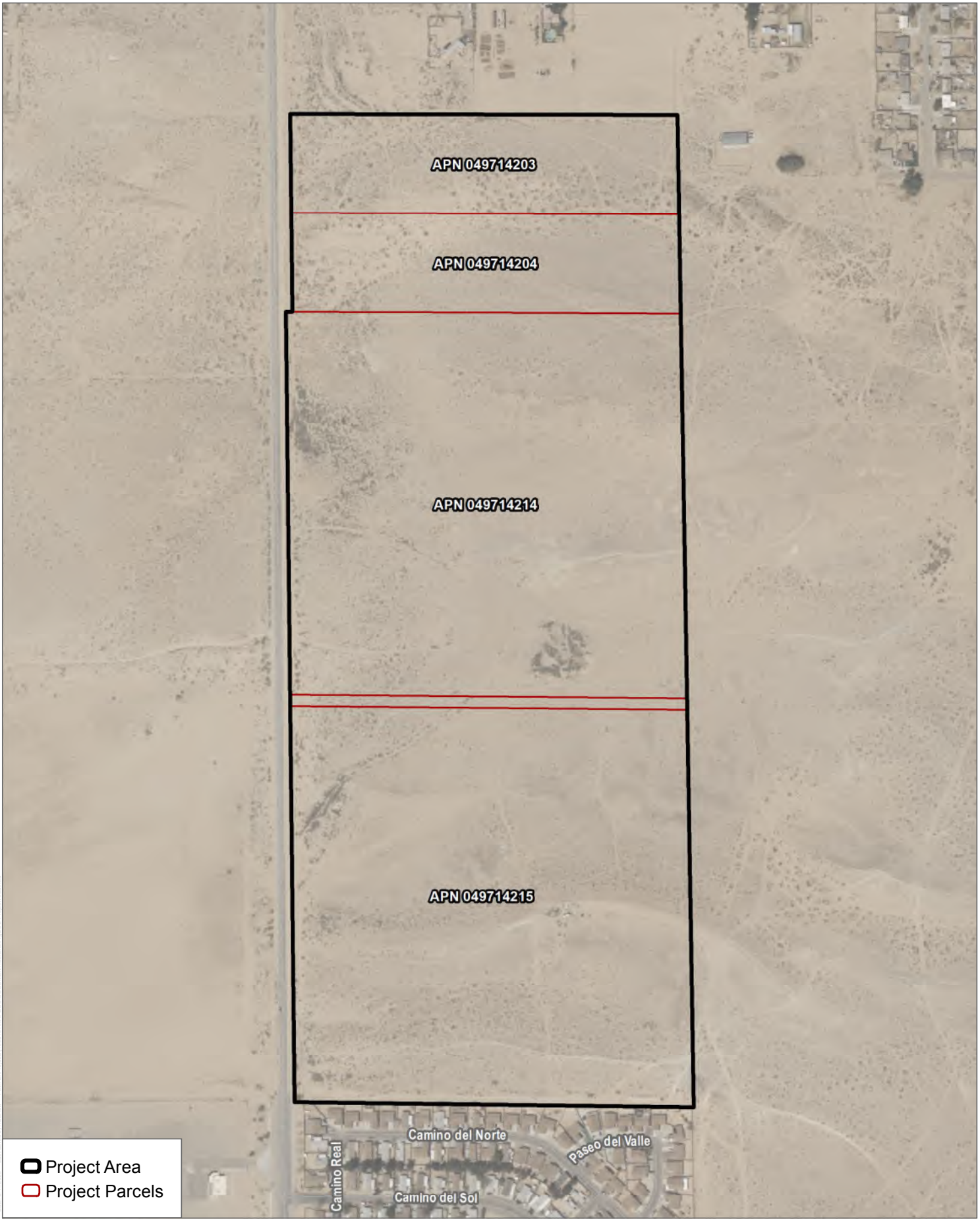

SOURCE: Bing Map Aerial (accessed 2023); Open Street Maps 2019; San Bernardino County 2023

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0 50 100 Meters

FIGURE 2

Project Area

EV Charging Truck Stop Project

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1.2 Regulatory Context

This Project is subject to state and local regulations regarding cultural resources. The following section provides a summary of the applicable regulations, policies, and guidelines relating to the proper management of cultural resources for this Project.

State Level Regulations

1.2.1 The California Register of Historic Resources (California Public Resources Code Section 5020 ET SEQ.)

In California, the term "historical resource" includes but is not limited to "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (California PRC section 5020.1(j)). In 1992, the California legislature established CRHR "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (California PRC section 5024.1(a)). A resource is eligible for listing in the CRHR if the State Historical Resources Commission determines that it is a significant resource and that it meets any of the following National Register of Historic Places (NRHP) criteria:

- Associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- Associated with the lives of persons important in our past.
- Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
- Has yielded, or may be likely to yield, information important in prehistory or history.

(California PRC section 5024.1(c).) Resources less than 50 years old are not considered for listing in the CRHR but may be considered if it can be demonstrated that sufficient time has passed to understand the historical importance of the resource (see 14 CCR, section 4852(d)(2)).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing on the NRHP are automatically listed on the CRHR, as are the state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys. The State Historic Preservation Officer maintains the CRHR.

1.2.2 Native American Historic Cultural Sites (California Public Resources Code Section 5097 et seq.)

State law addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction; establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project; and establishes the NRHC to resolve disputes regarding the disposition of such remains. In addition, the Native American Historic Resource

Protection Act makes it a misdemeanor punishable by up to 1 year in jail to deface or destroy an Indian historic or cultural site that is listed or may be eligible for listing in the CRHR.

1.2.3 California Native American Graves Protection and Repatriation Act

The California Native American Graves Protection and Repatriation Act (California Repatriation Act), enacted in 2001, required all state agencies and museums that receive state funding and that have possession or control over collections of human remains or cultural items, as defined, to complete an inventory and summary of these remains and items on or before January 1, 2003, with certain exceptions. The California Repatriation Act also provides a process for the identification and repatriation of these items to the appropriate tribes. New collections generated and transferred to a repository, such as a collection that would be generated as a result of archaeological fieldwork conducted within the project area prior to or during project implementation, may ultimately be subject to the California Native American Graves Protection and Repatriation Act of 2001 (i.e., "CalNAGPRA").

1.2.4 California Environmental Quality Act

As described further below, the following CEQA statutes and CEQA Guidelines are of relevance to the analysis of archaeological and historic resources:

1. California PRC section 21083.2(g): Defines "unique archaeological resource."
2. California PRC section 21084.1 and CEQA Guidelines section 15064.5(a): Define historical resources. In addition, CEQA Guidelines section 15064.5(b) defines the phrase "substantial adverse change in the significance of an historical resource;" it also defines the circumstances when a project would materially impair the significance of a historical resource.
3. California PRC section 5097.98 and CEQA Guidelines section 15064.5(e): Set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated cemetery.
4. California PRC sections 21083.2(b)-(c) and CEQA Guidelines section 15126.4: Provide information regarding the mitigation framework for archaeological and historic resources, including options of preservation-in-place mitigation measures; preservation-in-place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context, and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

Under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (California PRC section 21084.1; CEQA Guidelines section 15064.5(b)). If a site is either listed or eligible for listing in the CRHR, or if it is included in a local register of historic resources or identified as significant in a historical resources survey (meeting the requirements of California PRC section 5024.1(q)), it is a "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (California PRC section 21084.1; CEQA Guidelines section 15064.5(a)). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (California PRC section 21084.1; CEQA Guidelines section 15064.5(a)).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines section 15064.5(b)(1); California PRC section 5020.1(q)). In turn, the significance of a historical resource is materially impaired when a project:

1. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or
2. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
3. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a lead agency for purposes of CEQA.

1.2.5 California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98

CEQA Guidelines section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in California Health and Safety Code section 7050.5 and PRC section 5097.98.

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. Health and Safety Code section 7050.5 requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains shall occur until the County coroner has examined the remains (California Health and Safety Code section 7050.5[b]). If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the NAHC within 24 hours (California Health and Safety Code section 7050.5[c]). In accordance with California PRC section 5097.98(a), the NAHC will notify the Most Likely Descendant (MLD). With the permission of the landowner, the MLD may inspect the site of discovery. Within 48 hours of being granted access to the site, the MLD may recommend means of treatment or disposition, with appropriate dignity, of the human remains and associated grave goods.

1.2.6 Assembly Bill 52

California Assembly Bill 52 (AB 52), which took effect July 1, 2015, establishes a consultation process between California Native American Tribes and lead agencies to address tribal concerns regarding project impacts and mitigation to "tribal cultural resources" (TCR). PRC section 21074(a) defines TCRs and states that a project that has the potential to cause a substantial adverse change to a TCR is a project that may have an adverse effect on the environment. A TCR is defined as a site, feature, place, cultural landscape, sacred place, and object with cultural value to a California Native American tribe that is either:

1. listed or eligible for listing in the CRHR or a local register of historical resources, or
2. determined by a lead agency to be a TCR.

1.2.7 Guidelines for Determining Significance

According to the CEQA Guidelines (section 15064.5b), a project with an effect that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. CEQA defines a substantial adverse change:

> Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired.

The significance of an historical resource is materially impaired when a project:

- Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the CRHR; or
- Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
- Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its eligibility for inclusion in the CRHR as determined by a lead agency for purposes of CEQA.

Section 15064.5(c) of the CEQA Guidelines applies to effects on archaeological sites and contains the following additional provisions regarding archaeological sites:

- When a project will impact an archaeological site, a lead agency shall first determine whether the site is an historical resource, as defined in subsection (a).
- If a lead agency determines that the archaeological site is a historical resource, it shall refer to the provisions of section 21084.1 of the Public Resources Code, and this section, section 15126.4 of the Guidelines, and the limits contained in section 21083.2 of the Public Resources Code do not apply.
- If an archaeological site does not meet the criteria defined in subsection (a), but does meet the definition of a unique archaeological resource in section 21083.2 of the Public Resources Code, the site shall be treated in accordance with the provisions of section 21083.2. The time and cost limitations described in Public Resources Code section 21083.2 (c–f) do not apply to surveys and site evaluation activities intended to determine whether the project location contains unique archaeological resources.
- If an archaeological resource is neither a unique archaeological nor a historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment. It shall be sufficient that both the resource and the effect on it are noted in the Initial Study or Environmental Impact Report (EIR), if one is prepared to address impacts on other resources, but they need not be considered further in the CEQA process.

CEQA Guidelines section 15064.5 (d) and (e) contain additional provisions regarding human remains. Regarding Native American human remains, paragraph (d) provides:

> When an initial study identifies the existence of, or the probable likelihood of, Native American human remains within the project, a lead agency shall work with the appropriate Native Americans as identified by the Native American Heritage Commission as provided in PRC section 5097.98. The applicant may develop an agreement for treating or disposing of, with appropriate dignity, the human remains and any items associated with Native American burials with the appropriate Native Americans as identified by the Native American Heritage Commission. Action implementing such an agreement is exempt from:
>
> 1. The general prohibition on disinterring, disturbing, or removing human remains from any location other than a dedicated cemetery (Health and Safety Code Section 7050.5); and
> 2. The requirement of CEQA and the Coastal Act.

Under CEQA, an EIR is required to evaluate any impacts on unique archaeological resources (PRC section 21083.2). A "unique archaeological resource" is defined as (PRC section 21083.2(g)):

[A]n archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.
2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

An impact to a non-unique archaeological resource is not considered a significant environmental impact and such non-unique resources need not be further addressed in the EIR (PRC section 21083.2(a); CEQA Guidelines section 15064.5(c)(4)).

As stated above, CEQA contains rules for mitigation of "unique archeological resources." For example (PRC section 21083.2(b)(1)-(4)), "[i]f it can be demonstrated that a project will cause damage to a unique archeological resource, the lead agency may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. Examples of that treatment, in no order of preference, may include, but are not limited to, any of the following:"

1. "Planning construction to avoid archeological sites."
2. "Deeding archeological sites into permanent conservation easements."
3. "Capping or covering archeological sites with a layer of soil before building on the sites."
4. "Planning parks, greenspace, or other open space to incorporate archeological sites."

PRC section 21083.2(d) states that "[e]xcavation as mitigation shall be restricted to those parts of the unique archeological resource that would be damaged or destroyed by the project. Excavation as mitigation shall not be required for a unique archeological resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the resource, if this determination is documented in the environmental impact report."

The rules for mitigating impacts to archeological resources to qualify as "historic resources" are slightly different. According to CEQA Guidelines section 15126.4(b), "[p]ublic agencies should, whenever feasible, seek to avoid damaging effects on any historic resource of an archeological nature. The following factors shall be considered and discussed in an EIR for a project involving such an archeological site:

A. Preservation in place is the preferred manner of mitigating impacts to archeological sites. Preservation in place maintains the relationship between artifacts and the archeological context. Preservation may also avoid conflict with religious or cultural values of groups associated with the site.
B. Preservation in place may be accomplished by, but is not limited to, the following:
    1. Planning construction to avoid archeological sites;
    2. Incorporation of sites within parks, greenspace, or other open space;
    3. Covering the archeological sites with a layer of chemically stable soil before building tennis courts, parking lots, or similar facilities on the site [; and]
    4. Deeding the site into a permanent conservation easement.

Thus, although PRC section 21083.2, in addressing "unique archeological sites," provides for specific mitigation options "in no order of preference," CEQA Guidelines section 15126.4(b), in addressing "historical resources of an archeological nature," provides that "[p]reservation in place is the preferred manner of mitigating impacts to archeological sites."

Under CEQA, "[w]hen data recovery through excavation is the only feasible mitigation," the lead agency may cause to be prepared and adopt a "data recovery plan," prior to any excavation being undertaken. The data recovery plan must make "provision for adequately recovering the scientifically consequential information from and about the historic resource" (CEQA Guidelines section 15126.4(b)(3)(C)). The data recovery plan also "must be deposited with the California Historical Resources Regional Information Center" (CEQA Guidelines section 15126.4(b)(3)(C)). Further, "[i]f an artifact must be removed during project excavation or testing, curation may be an appropriate mitigation" (CEQA Guidelines section 15126.4(b)(3)(C)).

However, "[d]ata recovery shall not be required for an historical resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the archeological or historic resource, provided that determination is documented in the EIR and that the studies are deposited with the California Historical Resources Regional Information Center" (CEQA Guidelines section 15126.4(b)(3)(D)).

Local Level Regulations

1.2.8 San Bernardino County Countywide Plan

San Bernardino County's Countywide Plan, adopted in 2011, contains a Cultural Resources Element that establishes the County's purpose, principles, goals, and policies for the management of archaeological sites, sacred landscapes, historic buildings, and paleontological resources located in the unincorporated portions of the County. An outline of the County's Cultural Resources Element is provided below (San Bernardino County 2020).

Purpose

- Establish Direction on notification, coordination, and partnerships to preserve and conserve cultural resources.
- Provide guidance on how new development can avoid or minimize impacts on cultural resources.
- Provide direction on increasing public awareness and education efforts about cultural resources.

Principles

We believe:

- Today's generation are stewards of the county's cultural history and are responsible for conserving it for future generations.
- Preserving and celebrating cultural resources enhances our understanding of the world in which we live.
- Cultural resources are valuable assets that attract visitors and support local businesses.

Goal CR-1. Tribal Cultural Resources. Tribal cultural resources that are preserved and celebrated out of respect for Native American beliefs and traditions.

Policy CR-1.1. Tribal Notification and Coordination. We notify and coordinate with tribal representatives in accordance with state and federal laws to strengthen our working relationship with area tribes, avoid inadvertent discoveries of Native American archaeological sites and burials, assist with the treatment and disposition of inadvertent discoveries, and explore options of avoidance of cultural resources early in the planning process.

Policy CR-1.2. Tribal Planning. We will collaborate with local tribes on countywide planning efforts and, as permitted or required, planning efforts initiated by local tribes.

Policy CR-1.3. Mitigation and Avoidance. We consult with local tribes to establish appropriate project-specific mitigation measures and resource-specific treatment of potential cultural resources. We require project applicants to design projects to avoid known tribal cultural resources, whenever possible. If avoidance is not possible, we require appropriate mitigation to minimize project impacts on tribal cultural resources.

Policy CR-1.4. Resource Monitoring. We encourage active participation by local tribes as monitors in surveys, testing, excavation, and grading phases of development projects with potential impacts on tribal resources.

Goal CR-2. Historic and Paleontological Resources. Historic resources (buildings, structures, or archaeological resources) and paleontological resources that are protected and preserved for their cultural importance to local communities as well as their research and educational potential.

Policy CR-2.1. National and State Historic Resources. We encourage the preservation of archaeological sites and structures of state or national significance in accordance with the Secretary of Interior's standards.

Policy CR-2.2. Local Historic Resources. We encourage property owners to maintain the historic integrity of resources on their property by (listed in order of preference): preservation, adaptive reuse, or memorialization.

Policy CR-2.3. Paleontological and Archaeological Resources. We strive to protect paleontological and archaeological resources from loss or destruction by requiring that new development include appropriate mitigation to preserve the quality and integrity of these resources. We require new development to avoid paleontological and archeological resources whenever possible. If avoidance is not possible, we require the salvage and preservation of paleontological and archeological resources.

Policy CR-2.4. Partnerships. We encourage partnerships to champion and financially support the preservation and restoration of historic sites, structures, and districts.

Policy CR-2.5. Public Awareness and Education. We increase public awareness and conduct education efforts about the unique historic, natural, tribal, and cultural resources in San Bernardino County through the County Museum and in collaboration with other entities.

1.3 Native American Coordination

Dudek requested an NAHC search of the SLF on January 24, 2023, for the proposed Project area and surrounding one-mile radius. The SLF consists of a database of known Native American resources. These resources may not be included in the SCCIC database. The NAHC results, received February 14, 2023, reported that no Native American cultural resources were reported to be on file with the NAHC for this search area. The NAHC additionally provided a list of Native American tribes and individuals/organizations with traditional geographic associations that might have knowledge of cultural resources in this area. To date, Dudek has not sent outreach letters to any of the entities identified by the NAHC. See Appendix D for complete documentation of NAHC correspondence and SLF results.

CEQA (as amended, 2014) requires lead agencies to provide notification of projects and an invitation to consult to Native American tribes who have requested to be notified of projects within their jurisdiction. As such, San Bernardino County will provide project notifications and engage in government-to-government consultation with Native American tribes who respond to the project notice within 30 days of receipt and elect to consult. It is recommended that early engagement is conducted with these tribes to ensure they have an opportunity to provide input with regard to TCRs and/or other resources of Native American origin and value. While this report does not identify or address TCRs, it may be useful during consultation and should be provided to consulting tribes for review and comment upon request.

1.4 Report Format and Key Personnel

Following this introduction, Chapter 2 presents the environmental and historical background of the Project area, and Chapter 3 presents the research design for the archaeological site evaluations. Chapter 4 outlines the methods used to conduct this study, and Chapters 5 and 6 present the results of the records search, field survey, subsurface observations, and evaluations. Chapter 7 summarizes the results of the study, discusses interpretation and the evaluation of the archaeological resources, and provides recommendations for treatment. Four appendices are included that contain additional information: Confidential Appendix A includes SCCIC records search information,

Confidential Appendix B contains a resource location map, Confidential Appendix C includes California Department of Parks and Recreation (DPR) 523 forms, and Appendix D includes Native American correspondence documents.

Dudek Archaeological Principal Investigator Adam Giacinto, M.A., RPA managed the Project and co-authored this report with Dudek archaeologist Roshanne Bakhtiary M.A. and Dudek archaeologist Jessica Colston, B.A. Dudek archaeologist Loukas Barton, PhD, RPA contributed to Chapters 2, 3, 6, and 7, and Dudek archaeologist Micah Hale, PhD, RPA contributed to Chapter 3. Dudek archaeologist Loukas Barton also served as field director for the cultural resources field efforts, and was the primary author of this revised report. Archaeologists Jessica Colston, David Faith, Scott Wolf, and Patrick Hadel acted as field crew staff.

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2 Setting

The following description of environmental and cultural contexts is not intended to be exhaustive, but to provide context for understanding human occupation and use of the Central and Western Mojave Desert. It draws on decades of work from the authors of this report, from Lechner and Giambastiani (2008), and several others (Basgall 1993, 2000, 2008; Basgall and Hall 1991, 1994; Giambastiani and Basgall 2008; Giambastiani et al. 2008, 2013; Hale et al. 2020, 2023). Some portions of this setting are cited from Keegan and Becker (2021).

2.1 Natural Setting

The northern boundary of the Project area is approximately 700 meters (m) south and the western boundary is approximately 2,300 m east of the current channel of the Mojave River, and due west of downtown Barstow. The Mojave River flows through a channel between the Mitchell Range to the north, and the Daggett Ridge to the south. The Project area is at the northwestern terminus of the geological features that both abut and are transformed by the Daggett Ridge uplift. Here, relatively subtle outcrops of eroding volcanic, metavolcanic, and sedimentary strata interweave with riverine alluvium, and both fine and coarse grain sediments transported eastward from the perennially exposed Mojave Riverbed. These eroded bedrock exposures have attracted people for millennia, providing them with easy access to raw materials (rhyolitic and cryptocrystalline) for the production of stone tools. Erosional processes have degraded the bedrock exposures differently in different places but have also made them accessible for quarrying. At the same time, redeposition of silt and sand has concealed lower elevation portions of the bedrock, and perhaps more recently, concealed the material evidence of the people who exploited these resources.

The Mojave Desert typically receives trace levels of precipitation and is characterized by low humidity, wide diurnal temperature ranges (>25° C), high average temperatures, and strong seasonal winds (cf. Jaeger 1957; Rowlands et al. 1982; Thompson 1929; Troxell and Hofmann 1954). The annual precipitation cycle shows a distinctive cool and warm season patterning. Cool season precipitation is the most important and extensive source of rain in the desert region. Rainfall is widespread and of relatively long duration during the cool season. Warm season precipitation results largely from convection precipitation in the form of thunderstorms (USGS 2004). Cool season precipitation (October through April) averages 4 inches per year, while warm season precipitation (July through October) averages about 1.3 inches per year (California Department of Water Resources 1980; USGS 2004), with occasional violent convectional downpours causing flash floods and deep landform incisions.

Fauna within the survey parcels are diverse and include many animals that were likely exploited by prehistoric populations (Basgall 1991; Fowler 1990; Kelly 1964; Kelly and Fowler 1986; Kroeber 1925). The most prevalent are reptiles, rodents, small carnivores and birds. Reptiles like the desert tortoise (*Gopherus agassizii*), Western banded gecko (*Coleonyx variegates*), common chuckwalla (*Sauromalus obesus*), desert iguana (*Diposaurus dorsalis*), coachwhip (*Masticophis flagellum*), Mojave rattlesnake (*Crotalus scutulatus*) and sidewinder (*Crotalus cerastes*); lagomorphs such as the black-tailed jackrabbit (*Lepus californicus*) and desert cottontail (*Sylvilagus audubonii*); rodents such as the antelope ground squirrel (*Ammospermophilus leucurus*), desert kangaroo rat (*Dipodomys deserti*), desert woodrat (*Neotoma lepida*); and carnivores like the coyote (*Canis latrans*) and kit fox (*Vulpes macrotis*) are by far the most common. Large mammals such as mule deer (*Odocoileus hemionus*), bighorn sheep (*Ovis canadensis*), pronghorn (*Antilocapra americana*), and black bears (*Ursus americanus*) are present in the mountains today while grizzly bears (*Ursus arctos*) were present historically. Migratory waterfowl (e.g., *Anas* spp.) are occasional visitors to episodic playa lakes as well (Cornett 1987; Jameson and Peeters 2004; Stebbins

2003). At various times inhabitants of the foothills, deserts, and playas of the Mojave Desert also came together to exploit insects (e.g. *Ephydra* sp. and *Coloradia* sp.), and freshwater arthropods like fairy shrimp (Anostraca and Notostraca), as well as the birds drawn to punctuated hatches of them (Schneider et al. 2017; Henrickson et al., 1998; Sutton 1988b, 1995).

2.2 Cultural Setting

2.2.1 Prehistoric Context

While it is likely that long-term trends in prehistoric subsistence/settlement adaptations, and the timing of major changes in them, were largely similar across the Mojave Desert region, several attempts to summarize them during the last 30 years of archaeological research have often produced differing results. In particular, the character of late Pleistocene/early Holocene adaptations is still unclear and strongly debated, due in part to the persistence of long-standing notions of "Paleoindian" lifeways but also due to the continued scarcity of archaeological data from ancient sites in good (e.g., stratigraphically intact), dateable contexts.

The following summary of early prehistoric culture history, therefore, contains some assertions that are largely inferred and many that are highly debatable. Other important, more detailed syntheses can be found elsewhere (Basgall 1993, 2000; Giambastiani and Basgall 2000; Grayson 1993; Sutton et al. 2007; Sutton 2017; Warren 1984; Warren and Crabtree 1986) that provide additional opinions on broader datasets for the region.

The following discussion begins with summaries of local cultural chronological traditions as they are popularly understood, embedded within Paleoclimatic trends, and separated into the following periods: Fluted Point Period, Lake Mojave Period, Pinto Period, Gypsum Period, Saratoga Springs Period, Post-Saratoga Springs/Late Period, and Contact/Ethnographic Period. This setting divides the pre-contact cultural sequence into five periods. These periods are analytical constructs and do not necessarily reflect Native American views.

Terminal Pleistocene – Fluted Point Period (ca. 12,000–10,000 BP)

Disregarding claims for extremely ancient human presence in the Mojave Desert, there is substantial evidence that human occupation of the arid west began at the end of the Pleistocene era. Archaeological assemblages of such antiquity have been recognized mainly due to the presence of fluted-base projectile points similar to the well-known Clovis forms of the Great Plains and are fairly well-dated to 12,000-10,000 BP. Many of the earliest discoveries were made in the Mojave Desert at places like Lake Mojave, China Lake, Tiefort Basin, and Little Lake. Many of those recovered were surface finds, but sites at China Lake held fluted points in apparent association with the burned remains of extinct fauna; these locations remain among the more convincing for the Pleistocene antiquity of fluted point occupations (Basgall et al. 2002; Warren et al. 2004). Fluted points in the West often occur as isolated finds but they also tend to be found with flaked stone assemblages that are dominated by bifaces and formally shaped, unifacial flake tools. The comparable prevalence of bifaces in central plains Paleoindian (Clovis) assemblages could signify a need for a generalist, portable technology among extremely mobile groups. The premise of high residential mobility among Paleoindian groups has drawn support from studies of lithic assemblages transported long-distances and from obsidian source profiles for Great Basin Concave-base points and crescents in the Mojave Desert.

Recent discoveries of fluted points have increased the spatial distribution of these artifacts but have not contributed much to solidifying their place in time. Finds from the Mojave Desert have slowly multiplied (Basgall and Hall 1991),

revealing differences in the spatial distributions of fluted and stemmed points (e.g. at Fort Irwin) that may point to a cultural division between them throughout the Mojave Desert (Basgall and Hall 1994).

More recent work at Edwards Air Force Base (AFB) has identified a few sites with Great Basin Concave-base points around the shore of Rosamond Lake, also known as Pleistocene Lake Thompson (Basgall and Overly 2004), where various surface assemblages contain Great Basin Concave-base points, Great Basin Stemmed points, crescents, and even buried cultural deposits of late Pleistocene-early Holocene age.

Early Holocene – Lake Mojave Period (ca. 10,000–7,000 BP)

In the western Great Basin, various stemmed projectile point forms have been fairly well dated to the early Holocene, roughly between 10,000 and 7500 BP. Generally subsumed under the broader appellation "Great Basin Stemmed," these artifacts are elongate, lanceolate forms often with subtle, sloping shoulders, although many different regional styles exist. In the western Mojave Desert, typical stemmed points are Lake Mojave (unshouldered) and Silver Lake (slightly shouldered) forms, both of which are parts of lithic assemblages similar to those of the Fluted Point Period.

Because of their tendency to occur along the shorelines of extinct lakes, stemmed point assemblages were once considered to represent a unique, lacustrine-based subsistence adaptation. The term "Western Pluvial Lakes Tradition" (WPLT), originally coined by Bedwell (1973), was applied to stemmed point sites found in ancient lakeshore contexts across the Great Basin. Lithic assemblages of the WPLT were found to be fairly comparable to Clovis materials, and in many cases points of both kinds occur together in the same sites (Basgall and Hall 1991; Davis and Panlaqui 1978). Flaked stone "crescents" (Amsden 1937) were found primarily in such lakeshore assemblages, leading many archaeologists to draw associations between crescents and lacustrine environments. Support for the WPLT has faded in recent years, however, as additional stemmed point sites have been discovered in locations away from extinct bodies of water and the landform bias in early survey programs becomes increasingly clear. Bias in the differential preservation of ancient land surfaces along fossil washes and in the center of dry lake basins has also been recognized (Basgall and Hall 1991; Waters 1988, 1991).

Middle Holocene – Pinto Period (ca. 7,000–4,000 BP)

Archaeological assemblages dating to this period are typified by Pinto points, projectiles bearing weak shoulders and indented or split-stem bases. Associated flaked stone assemblages include leaf-shaped bifaces, formal unifaces, flake tools, and consistent quantities of core-cobble implements (Basgall 1993, 2000; Campbell and Campbell 1935; Hunt 1960; Rogers 1939). Lithic selection evidently favored fine-grained igneous stones such as basalt and rhyolite for points and bifaces. Milling stones are a major part of Pinto Period assemblages, reflecting the importance of seed processing. The timing of the Pinto Period coincides with Antevs' (1953) "Altithermal," an extended interval when climate was supposedly very hot and dry. Archaeologists once believed a scarcity of Pinto sites in the Mojave Desert signaled a near-total abandonment of the region due to the oppressive climate, but more recent studies suggest that the middle Holocene in the Antelope Valley was punctuated by wetter episodes (Grayson 1993; Mehringer 1987) and that the effects of the Altithermal were variable in different parts of the desert.

Early Late Holocene – Gypsum Period (ca. 4,000 – 1500 BP)

Diagnostic artifacts at Gypsum Period sites include Gypsum contracting-stem projectile points, Elko Eared and Corner-notched points, and Humboldt Basal-notched points. Lithic assemblages are typified by bifaces, scrapers, and a variety of other flake-based tools, but also contain mortars and pestles as evidence of expanded plant

processing (including mesquite, pine nuts, yucca, and agave). Large villages or village complexes appear during Gypsum times that may reflect a transition from seasonal transhumance to year-round sedentary occupation within the Antelope Valley (Sutton 1988a, 1996, 2017). The presence of marine shell artifacts at Gypsum period sites (near Edwards AFB for example) indicates economic ties between the Antelope Valley and the California coast (Warren 1984). Gardner (2006) analyzed data from a slew of sites in the western Mojave to assess the socioeconomic impact of the Medieval Climatic Anomaly (MCA) and in so doing, suggested a revision in the terminus of the Gypsum period to about 2000 BP. Gardner (2006) based this revision on the early appearance of the bow and arrow within the Rose Spring Complex in conjunction with an increase in effective moisture at 2000 BP.

Middle Late Holocene – Saratoga Springs Period (ca. 1500 – 800 BP)

By at least 1500 BP (or 2000 BP using Gardner's 2006 chronological scheme), the aboriginal people of the Mojave Desert had replaced the atlatl (or spear-thrower) with the bow and arrow (Yohe 1992). This change brought about a shift toward the use of smaller projectile points, including various corner-notched and side-notched Saratoga Springs types and the corner-notched Rose Spring and Eastgate types. Ancestral Puebloan (also called "Anasazi") ceramics also appear in the southern Mojave around 1200 to 1100 BP, coinciding with the westward spread of the Virgin Anasazi into southern Nevada. Influence from the cultures of the Colorado River eventually grew stronger than those from the east, allowing for an influx of buffware ceramics and other goods that persisted until the historic present. The intensification of plant use initiated during the Gypsum period continued in the Saratoga Springs period, as diet breadth was expanded to include a wide range of plant foods that required high cost/high return procurement and processing strategies. This is indicated by a general increase in milling equipment from Gypsum times through the Saratoga Springs period (see Gardner 2006).

Recent Late Holocene – Post-Saratoga Springs Period / Late Period (ca. 800 – 300 BP)

Social and economic adaptations during this final prehistoric interval were largely an extension of patterns that developed during the Saratoga Springs period. Trade along the Mojave River continued to provide the people of Central and Eastern Mojave Desert with a variety of exotic goods and materials, although it appears that relationships with groups in coastal California eventually grew stronger than those with groups inhabiting the arid interior. Projectile points also shifted in form, with unnotched Cottonwood Triangular and Desert Side-notched points being even smaller than their predecessors. Mortars and pestles also appear in significant quantities, probably an indication of increased emphasis on high-cost/high-yield processing.

2.2.2 Ethnohistoric Context

Ethnic territorial claims by the different groups who occupied the Mojave Desert could be fluid in response to environmental pressure and sometimes resulted in conflict that would end in the movement of a group of people out of an area which would then be occupied by a competing group. Ethnographic sources, compiled for the most part by anthropologists, suggest varying and sometimes overlapping territorial boundaries (see Kroeber 1925, Bean and Smith 1978, Earle 1990, Sutton and Earle 2017). Evidence suggests boundaries would shift over time and groups would sometimes share territory or resources and would invite neighbors to share resources when abundant.

Regardless of the overlapping and often conflicting accounts of which Serrano group, clan, or local inhabitants occupied the area along the Mojave River near Barstow, the Project area is unequivocally within Serrano ancestral territory, and several named Serrano settlements have been documented historically. Harrington writes that he was

informed of an ethnohistoric Serrano village called *Tutupeat*, reported to have been located to the west or northwest of the present town of Barstow, on a flat plain bordered by hills (Sutton and Earle 2017). Harrington's interviewee (Santos Manuel) further noted that while the *Tutupeatam* people from this village were part of the larger *Kai'uyam* clan who occupied the northwestern quadrant of Serrano territory during the nineteenth century, the *Yohaviatum* (also spelled *Yuhaaviatam*) clan – most typically associated with the southwestern quadrant of Serrano territory in the mountains around Cajon Pass – also used this area. The exact location of another named settlement, *Sisugenat*, is similarly uncertain, but generally relevant (Sutton and Earle 2017). This village location has been assigned to at least two different archaeological manifestations: P-36-000118 ("Lenwood Sand Dunes/Manning Ranch") and P-36-001549. The former (P-36-000118) has been reported to contain evidence of domestic activity, including manos, metates, mortars, scrapers, projectile points, and an abundance of debitage, and according to coordinates provided in an early report (Smith 1963) is located approximately 2.15 miles from the Project area, and beyond the records search for the current Project. More recent assessments put the location of *Sisugenat* much further upriver (to the southwest), perhaps near the contemporary communities of Hellendale or Bryman (Sutton and Earle 2017). However, the latter (P-36-001549) is a little less than a mile due west of the Project area, in a zone of very active, mobile sand dunes immediately adjacent the Mojave River channel. This zone contains many archaeological manifestations, some with evidence of domestic activity and inhumation (see below), Currently, it is unknown whether this represents the location of an ethnohistoric Serrano settlement, though repatriation efforts have linked this location to the settlement of *Sisugenat* (NPS 2021).

Serrano

Although contact between the Serrano and Euroamericans may have occurred as early as 1771 (when Mission San Gabriel was established) or 1772 (the date of Pedro Fages' trip into Serrano territory), most historical sources mark the first encounter in 1776 when Francisco Garcés visited a community of about 40 people near present-day Victorville. Kroeber (1925) estimates the Serrano population before contact to be about 1,500 people, while Bean and Smith (1978) suggest a total of about 2,500. Spanish influence on the Serrano was limited until about 1819, when an *asistencia* was built near Redlands, to which the Serrano were marched involuntarily to build the Mill Creek Zanja (SMBMI 2004). By 1834 most of the western Serrano had been moved to southern California missions like San Gabriel (Bean and Smith 1978; Cook 1943). Strong (1929:5) noted that the 1910 federal census identified only 119 Serrano.

On the basis of both ethnographic and archaeological information, Sutton (2017) argues that both the Serrano who preferred the uplands and highlands of the San Bernardino Mountains (i.e. the "mountain" Serrano) and the Serrano who occupied the Mojave River (i.e. the Vanyume or "desert Serrano") shared a large desert region as a "common pool resource" area north of the mountains and east of the river called *te'mtak*; this region was described by Santos Manuel (see Harrington, cited by Bean et al., 1981 and NEA & CRS 2004). In general, the Serrano were organized around autonomous localized lineages that maintained favored, generalized usage areas. These lineages were organized into exogamous clans. Each clan had a hereditary leader, called the *kiika'*, who conducted ceremonies and religious activities (Bean and Smith 1978). Comprehensive discussions of clan- or moiety-based territories derived from ethnographic studies include Sutton and Earle (2017), Earle (2005), and Earle (1990).

Prior to contact, the desert-dwelling Serrano maintained a hunting and gathering economy. Staple plant foods included acorns, pinyon nuts, yucca (flowers, stalks, and roots), mesquite, screwbeans, and cactus fruit, these often supplemented with various roots, bulbs, shoots, and seeds like chia (*Salvia columbariae*) and ricegrass (*Oryzopsis* spp.). Principal game included deer, mountain sheep, rabbits and larger rodents, and many birds (Bean and Smith 1978). Various basketry tools were used to gather, winnow, and cook plant foods (Bean and Vane 2002), many of

which were stored in large, elevated basketry granaries at village locations. Pottery was also used for food storage, particularly to hold mesquite and pinyon flour (Benedict 1924). Hunting was accomplished with throwing sticks, various types of traps, nets and snares, and sinew-backed bows and arrows (Bean and Smith 1978; Drucker 1937). Principal trading partners were the Mohave people to the east and the Gabrielino to the south and west, but they also traded often with their closer neighbors, the Cahuilla and, in more recent times, the Chemehuevi.

Families traditionally lived in single-family dwellings that were circular, domed or conical structures with central firepits. The walls were constructed of willow frames with exterior tule thatching secured with yucca withes (Bean and Smith 1978; Drucker 1937). Each house generally had a small "ramada" attached to it, an unwalled shade structure consisting of a willow-framed roof covered with thatching and supported by poles (Benedict 1924; Drucker 1937; Kroeber 1925). The homes of several families were generally clustered in small groups, each of which usually had shared facilities such as granaries, a sweathouse, and a larger ceremonial house where the lineage leader resided (Bean and Smith 1978; Strong 1929). Serrano houses of more recent times (e.g. 1920s) were rectangular, with sloped tule-thatched roofs supported by forked posts, a central cross-beam, and horizontal wall beams set about 4 ft from the ground (Benedict 1924; Drucker 1937).

The Serrano had similar technology to their neighbors, particularly the Cahuilla. Basic items of material culture included baskets, pottery, rabbit skin blankets, awls, arrow straighteners, bows and arrows, mortars and pestles, stone pipes, musical instruments, bags and pouches, mats, and cordage (Bean and Smith 1978). Baskets were fabricated from yucca fiber, willow, and other reeds and grasses found in the area, while pots were made by coiling, smoothed with a paddle and anvil, and left undecorated (Benedict 1924; Stickel et al. 1980). Arrows were made of hardwood and tipped with stone points (Drucker 1937), and food-grinding tools featured basketry hoppers with portable stone mortars (attached with adhesive), deep wooden mortars, and bedrock mortars (Benedict 1924; Drucker 1937). Fibers of yucca, agave, and other plants were used to make clothing and other textiles, mats, and cordage. Musical instruments consisted of rattles made from turtle/tortoise shell or deer hooves, bone whistles, and flutes.

First-hand accounts of the Serrano settlement-subsistence system comes from the observations of William McHaney, a Euroamerican prospector who spent time hunting and gathering in the 1880s with the Serrano in the desert north of Twentynine Palms (cited in Walker 1931). McHaney calls attention to the seasonal movements of Serrano for different kinds of plants and animals, but also water, and for raw materials to make tools.

The Serrano language is classified as part of the Serran branch of the Uto-Aztecan language family, making it broadly similar to the language of their neighbors: Kitanemuk and Tataviam, Serrano has also been grouped with a somewhat larger set of languages spoken by other neighboring groups in southern California, including Tongva, Luiseño, Juaneño, Cahuilla, and Cupeño (see Golla 2011 and Hill 2011 for somewhat different interpretations). Language affinities over such a larger area have led many scholars to suggest that Serrano was part of a larger "Shoshonean" or "Takic" expansion into southern California, ca 3,500 to 1,500 years ago (Kroeber 1925, Sutton 2009).

2.2.3 Historic Period Context

Spanish missionization of Alta California was initiated in San Diego (1769). A total of 21 missions were constructed by the Dominican and Franciscan orders between 1769 and 1823. Mexico's separation from the Spanish empire in 1821 and the secularization of the California missions in the 1830s caused further disruptions to native populations. Following the establishment of the Mexican republic, the government seized many of the lands

belonging to Native Americans, providing them as parts of larger Land Grants to affluent Mexican citizens and rancheros. The 1833 Secularization Act passed by the Mexican Congress ordered half of all mission lands to be transferred to Native Americans, and the other half to remain in trust and managed by an appointed administrator. These orders were never implemented due to several factors that conspired to prevent Native Americans from regaining their patrimony.

California was officially ceded to the United States in 1848, which led to the continued appropriation of Native American Lands by ranchers, prospectors, and an increasing number of settlers. The United States Government did little to dissuade these trespasses. From 1850, with the passage of California's Indian Act, until legislative reforms in the late 1880s, state laws promoted conditions that amounted to indentured servitude for much of the Native American population throughout California. The mining-related resources within the Project area are limited to early local roads associated with mining activities, which played an important role in the history of the Mojave Desert. Information in this section addresses the subject in order to provide a full picture of the Project vicinity's development history.

The California Gold Rush that began in 1848 sparked a period of unprecedented mining activity in the West. As the number of productive strikes in Northern California and across the state line in the eastern Sierra Nevada began to decline in the 1850s and 1860s, surveyors and prospectors began exploring the Mojave Desert for resources. Materials mined from the Mojave Desert included gold, barium, barite, borates, copper, feldspar, lead, magnesite, silver, manganese, strontium, and tungsten.

Throughout the late nineteenth and early twentieth century, mining in California and Nevada remained an industry subject to extreme periods of boom and bust. The longevity of a mining town depended directly on the operation of a mine, which simultaneously required a market for the material mined there and favorable environmental conditions, such as adequate rainfall. The cost and overall difficulty associated with transportation remained a hindrance to any sustained success until wider railroad expansion occurred after the turn of the twentieth century. The silver and gold mining booms, led to the development of new short-line railroads, with the T&T connecting to the Salt Lake Route in eastern California.

The Tonopah and Tidewater Railroad, known colloquially as the T&T, was built by Francis Marion "Borax" Smith in 1906–1907 to tap his borax mines near Death Valley and the silver and gold mines of central Nevada. The line never reached the coast or Tonopah, stopping just short of Beatty, Nevada, but served as the "neighborhood railroad" for much of the desert. The T&T crossed the UP Railroad at Crucero (Myrick 1992).

For almost 35 years, from 1907 to 1940, the T&T served as an important transportation link between the isolated mining communities of the Mojave Desert and southern California and Nevada. The history of the T&T is a story of success in overcoming formidable obstacles in the desert regions of California and Nevada. These obstacles included steep mountains, dry lakes and washes subject to flooding, and long expanses of uninhabited land devoid of trees and reliable sources of water. The great geologic forces that formed high-grade mineral deposits also created adverse conditions that impeded the economic development of those resources (Myrick 1992).

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3 Research Design

The objective of the evaluation portion of this report was to obtain information from the three archaeological sites (P-36,003677, P-36-005076, and LE-S-001 herein identified as "Project Resources") that could be used to evaluate their significance under CEQA and local regulations. Current research is typically structured in a way that links anthropologically oriented research issues to the archaeological record. The following discussion embraces this strategy and identifies potential questions and appropriate archaeological evidence within a series of broad research themes. General issues pertinent to the assessment of the sites include determination of the extent and integrity of cultural deposits, age and probable affiliation, site function, and subsistence strategies.

Isolates are categorically ineligible for listing on the CRHR and not considered to be to be significant under CEQA. Under CEQA, isolates do not require additional treatment other than formal documentation.

3.1 Chronology

The prehistoric Project Resources within the current Project area appear to represent relatively short-term occupations. Chronological indicators are likely to be provisional, such as a diagnostic projectile point, or technological attributes that may be time sensitive, or perhaps evidence of artifact weathering. This study will rely on relative chronometrics assuming that no radiocarbon dates or other absolute dates will be obtained. Historic period sites typically contain artifacts that together represent broad time frames, indicating that dump events were composed of materials from mixed occupations. Because chronological controls are essential to any archaeological investigation, it is important to ask a few basic questions concerning the temporal data potential of evaluated sites:

- Can the chronological placement of Project Resources be determined?
- What kinds of chronometric data can Project Resources provide? Of those obtained during survey, how well do they correlate in terms of the age estimates they provide (e.g., projectile point types versus obsidian hydration dates)?
- Are there data indicating the presence of multiple occupation episodes at Project Resources?
- Do marker artifacts appear to fit with temporal patterns recognized within the Mojave Desert and in the surrounding region? Are there any unique diagnostic items present?
- Can chronometric data from Project Resources help to refine dating schemes in use within the Mojave Desert?

3.2 Technology, Subsistence, and Settlement Organization

In examining prehistoric sites, the study of lithic technologies (flaked and ground stone) often provides clues to the placement of sites within associated subsistence-settlement regimes and offers insight to the various functions and emphases of site occupations. At historical period sites, the kinds of artifacts present, the activities they represent, and their overall proportions can give some indication of where refuse originated, by whom it was generated, and why it was abandoned at its place of discard. Among many others, the following questions apply:

- What kinds of manufacturing and tool use activities are represented at the prehistoric Project Resources in the Project area?
- What can be inferred from the composition of lithic assemblages about the kinds of resources and habitats exploited by the Project Resources inhabitants?
- Do observed lithic technologies at prehistoric Project Resources have any implications for residential mobility and settlement ranges? What does the lithic material profile indicate about the source origins and how raw materials might have arrived at the Project Resources?
- What is the nature of refuse at historic period Project Resources? Are proportions of consumptive, household, industrial, and other artifacts substantial enough to derive context of origin(s)?
- Are any maker's marks on historical artifacts indicative of specific places of manufacture? Do they provide any information about where particular goods might have been purchased or otherwise obtained?

3.3 Structure and Integrity of Cultural Deposits

Data bearing on the temporal and physical integrity of the Project Resources are critical to assessments of significance, data potential, and management needs. The degree to which temporally discrete components remain, depending on their material structural integrity, must be considered in making recommendations for future investigations and/or resource protection. The extent to which site integrity enhances or devalues the interpretive potential of a cultural deposit determines the potential of its scientific value:

- Do inclusive chronometric data from the Project Resources permit the identification and definition of temporally and/or spatially discrete prehistoric occupations or historic dumps?
- Are the definitions of discrete components supported by multiple, independent chronological controls, and if so, how similar are their age estimates?
- Is there substantial evidence of occupational "overprinting"? How has this practice affected the temporal integrity of habitation components or refuse deposits?

4 Methods

This section describes the techniques employed to identify and record archaeological resources within the Project area. All methods exceed the Secretary of the Interior's (SOI) Standards and Guidelines for Archaeology and Historic Preservation, as do all Project personnel for their respective roles.

4.1 Inventory

The inventory portion of this cultural resource investigation consisted of a records search of the Project area and surrounding one-mile radius at the SCCIC, initiation of correspondence with the NAHC, and an intensive pedestrian survey of the Project area. In addition to the SCCIC records, the records search also examined the NRHP, Office of Historic Preservation Archaeological Determinations of Eligibility and Historic Property Directory lists, and historic maps. Historic aerial photographs and topographic maps were also reviewed online (NETR 2023). All previously recorded cultural resources and previous cultural resources investigations were plotted on records search maps and reviewed to assess the potential for discovery of cultural resources within the Project area. Records search results are included in Confidential Appendix A.

Dudek archaeologists Loukas Barton, David Faith, Scott Wolf, Jessica Colston, and Patrick Hadel conducted an intensive-level cultural resources pedestrian survey of the entire Project area on April 14 and July 6, 2023, using standard archaeological procedures and techniques. All field practices met the Secretary of Interior's standards and guidelines for a cultural resources inventory (NPS 2018). Intensive-level survey methods consisted of a pedestrian survey conducted in parallel transects tracked east to west and spaced no more than 15 meters apart over the entire Project area.

Within each transect, the ground surface was examined for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire- affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions, features indicative of the current or former presence of structures or buildings (e.g., standing exterior walls, post holes, foundations), and historic artifacts (e.g., metal, glass, ceramics, building materials). Ground disturbances such as burrows, cut banks, and drainages were also visually inspected for exposed subsurface materials. All fieldwork was documented using hand-written field notes and an Apple iPad equipped with ESRI Field Maps. Location-specific photographs were taken using an eighth-generation (or better) Apple iPad equipped with eight (8) mega-pixel (MP) 1080p resolution (or better) and georeferenced PDF maps of the Project area. Accuracy of these devices ranged between 1 and 7 meters, with spatial correction allowed through use of base map aerial imagery, vegetation, and landforms. All field notes, photographs, and records related to the current study are on file at Dudek's Encinitas, California office.

4.1 Classification and Recording

Cultural resources identified during this inventory effort were classified as either "sites" or "isolates." For the purposes of prehistoric site definition, a minimum density of five or more prehistoric artifacts in a 25 square meter area was used to constitute an archaeological site, as was the presence of any feature (e.g., bedrock mortar outcrop). Any separation of 50 meters or more between prehistoric artifacts was considered justification for delineation of a site boundary/designation as an isolate. Isolated finds consisting of fewer than five prehistoric artifacts within a 25 square-meter area were recorded separately from sites, including the use of a different numbering scheme. For the purposes of historic-era site definition, a minimum density of 10 or more historic-era artifacts in a 25 square meter area was used to constitute an archaeological site, as was the presence of any

feature (e.g., concrete foundation) or diagnostic historic-era artifact (e.g., bottle glass with maker's mark). Any separation of 50 meters or more between historic-era artifacts was considered justification for delineation of a site boundary/designation as an isolate. Isolated finds consisting of fewer than 10 non-diagnostic historic-era artifacts within a 25 square-meter area were recorded separately from sites, including the use of a different numbering scheme.

Nine cultural resources were relocated or identified within the Project area during the intensive-level pedestrian survey. P-36-003677, P-36-005076, and LE-S-001 were recorded as archaeological sites and LE-I-001, LEI-002, LE-I-003, LE-I-004, LE-I-005, and LE-I-006 were recorded as archaeological isolates. All resources were recorded in their entirety on DPR 523 forms, using the Instructions for Recording Historical Resources (Office of Historic Preservation 1995). DPR forms are included in Confidential Appendix C.

Isolates are not considered significant under CEQA and local regulations and are categorically ineligible for the CRHR; therefore, no formal evaluation was conducted for LE-I-001, LE-I-002, LE-I-003, LE-I-004, LE-I-005, and LE-I-006. The other three resources, P-36-003677, P-36-005076, and LE-S-001, were evaluated for significance under CEQA and local regulations, and eligibility for the CRHR as part of this report.

5 Archival Research

5.1 South Coastal Information Center Records Search

Dudek archaeologist Brenda Rogers conducted an in-person records search of the Project area and surrounding one-mile radius at the SCCIC at California State University, Fullerton on March 6, 2023. The search included a review of previously recorded cultural resources and previously conducted studies within a one-mile radius of the Project area. The CHRIS records search also included a review of the NRHP, the CRHR, the California Points of Historical Interest list, the California Historical Landmarks list, the Archaeological Determinations of Eligibility list, and the California State Historic Resources Inventory list. The results of the records search are attached as part of Confidential Appendix A.

5.1.1 Previous Technical Studies

SCCIC records indicate that 35 previous cultural resources studies have been conducted within a one-mile radius of the proposed Project area. Of the 35 studies, four intersect the Project area: SB-01161, SB-01344, SB-03278, and SB-05279 (Table 1). Of the four studies that intersect the Project area, two are cultural resources inventory reports, and two are evaluation reports. The results of the records search, including a list of the studies that do not intersect Project area, are attached as part of Confidential Appendix A.

Table 1. Previous Resource Studies that Intersect Project Area

SCCIC Report ID	Year	Author	Report Title
SB-01161	1981	Lerch, Michael K.	Cultural Resources Assessment of Tentative Tract No. 11874, Lenwood Area, San Bernardino County
SB-01344	1983	Lerch, Michael K.	Cultural Resources Assessment of The Lenwood Village Large Scale Housing Project, Lenwood Area, San Bernardino County, California
SB-03728	2000	Love, Bruce	Identification And Evaluation of Historic Properties: Lenwood Sewer Line Installation in The Community of Lenwood, San Bernardino County, Ca. 25pp
SB-05279	2006	Dibble, Stephen D.	An Evaluation of The Cultural Resources Potential Of Three Parcels For Proposed Annexation By The City Of Barstow, San Bernardino County, California

SB-01161

This report is a cultural resources assessment for a residential development project authored by Michael Lerch of the San Bernardino County Museum Association in 1981. It covered the southern 75% of the currently proposed Project area. The 1981 field efforts included a pedestrian survey of Tract 11874 located at the intersection of Lenwood Road and Jasper Road. This report identified one resource: P-36-003677. Lerch notes that the site was originally recorded for the San Bernardino County Transportation Department in 1979 by Gerald Smith as a lithic scatter. However, the site was expanded during the 1981 pedestrian survey and reclassified as a quarry. Lerch mapped the most intensely utilized portions of the site outside of the tract. Their evaluation included the collection of a sample of artifacts which are currently stored at the San Bernardino County Museum under accession number

SBCM-3836. Lerch concluded that additional investigations at the intersecting portion of the tract with P-36-003677 would not significantly increase knowledge and information about the resource. As such, no additional cultural resource efforts were conducted as part of this project (Lerch 1981a).

SB-01344

This report is a cultural resources assessment for a residential development project authored by Michael Lerch of the San Bernardino County Museum Association in 1983. This project included 20-acre and 10-acre parcels near the intersection of Lenwood Road and Agate Road. Their record search identified sites P-36-003677 and P-36-005076 outside of their project area. The pedestrian survey identified three isolated flakes. Lerch surmised that the flakes were likely from site P-36-005076. They identified no significant cultural resources on the project itself and recommended no additional mitigation beyond the erection of a chain link fence to prevent incidental impact south towards site P-36-005076 (Lerch 1983).

SB-03728

This report outlines the cultural resources inventory and evaluation in support of the Lenwood Sewer Line Installation Project, authored by Bruce Love of CRM Tech in 2000. The proposed project involved the installation of various pipelines and auxiliary tie-ins confined within public roadways traversing in and around Sections 8, 9, and 17 of Township 9N, Range 2W of the San Bernardino Base Meridian. A pedestrian survey in support of this Project was conducted within and directly adjacent to Lenwood Road and Agate Road, directly to the west and north of the currently proposed Project area, respectively (but does not necessarily intersect). The survey crew attempted to relocate P-36-003677 at its previously recorded location but failed to identify any associated culturally modified material. Overall, the report identified two resources (Santa Fe Railroad and Route 66/Main Street) that intersect the APE of the sewer installation project. Both resources were evaluated and found eligible for listing on the NRHP. Although the report identified these resources as historic properties under Section 106 of the NHPA, Love concluded that these properties would not be affected by the proposed undertaking and recommended no additional cultural resources work, including monitoring, to take place in support of project implementation (Love et al. 2000).

SB-05279

This report is a cultural resources evaluation for three parcels as part of a proposed annexation by the city of Barstow, authored by D. Stephen Dibble in 2006. Site 2 contains the current Project area and covers 100% of the Project area. The evaluation included a records search and a cursory site visit to previously recorded resources. The site visit observed disturbances from off road use and recreational impacts. Dibble posits that the observed impacts would have compromised the sites' integrity to a great degree. Dibble states that it is likely that both P-36-003677 and P-36-005076 are not significant resources (pp.10-11). His recommendations for the City of Barstow states that no additional work is necessary for the proposed annexation, however future plans for development would require an updated archaeological field survey (Dibble 2006).

5.1.2 Previously Recorded Cultural Resources

The SCCIC records search identified 49 previously recorded cultural resources within a one-mile radius of the Project area (Table 2). Of these, two intersect the Project area. These include two prehistoric lithic quarries/lithic scatters (P-36-003677 and P-36-005076). Neither of these resources have been evaluated for listing on the CRHR or NRHP.

Of the remaining 47 previously recorded resources, 13 are characterized as prehistoric lithic quarries/lithic scatters, eight are prehistoric isolates, seven are historic refuse scatters, five are multicomponent sites, five are historic linear features (roads, railroads, trails etc.), four are ranches/farms, three are structures/foundations, one is a prehistoric habitation deposit, and one is a bedrock milling feature.

Table 2. Previously Recorded Resources within One-Mile Radius of Project Area

Primary Number	Trinomial	Age	Description
Intersects Project Area			
P-36-003677	CA-SBR-003677	Prehistoric	Lithic Scatter / Quarry
P-36-005076	CA-SBR-005076	Prehistoric	Lithic Scatter / Quarry
Outside of Project Area			
P-36-001549	CA-SBR-001549	Prehistoric	Lithic Scatter; Bedrock Milling Feature; Burial
P-36-002291	CA-SBR-002291/H	Multicomponent	Mines/quarries/tailings; Lithic Scatter; Quarry
P-36-002294	CA-SBR-002294H	Multicomponent	Privies/dumps/trash scatters; Lithic Scatter; Ceramic scatter; Hearths/pits; Habitation debris
P-36-002910	CA-SBR-002910H	Historic	Privies/dumps/trash scatters; Habitation debris; Roads/trails/railroad grades; Walls/fences; Engineering structure; Engineering structure; Highway/trail
P-36-006793	CA-SBR-006793H	Historic	Foundations/structure pads; Privies/dumps/trash scatters; AH05; Roads/trails/railroad grades; Walls/fences; Other; Train; Engineering structure; Canal/aqueduct; Lake/river/reservoir; Other
P-36-007032	CA-SBR-007032	Prehistoric	Habitation debris
P-36-007033	CA-SBR-007033	Prehistoric	Lithic Scatter; Habitation debris
P-36-007034	CA-SBR-007034	Prehistoric	Lithic Scatter; Bedrock Milling Feature; Hearths/pits
P-36-007118	CA-SBR-007118	Prehistoric	Lithic Scatter; Ceramic scatter; Bedrock Milling Feature
P-36-007119	CA-SBR-007119	Prehistoric	Lithic Scatter; Ceramic scatter; Hearths/pits; Habitation debris
P-36-007120	CA-SBR-007120	Prehistoric	Lithic Scatter; Habitation debris
P-36-007121	CA-SBR-007121	Prehistoric	Lithic Scatter
P-36-007125	CA-SBR-007125	Prehistoric	Lithic Scatter
P-36-007126	CA-SBR-007126	Prehistoric	Lithic Scatter; Bedrock Milling Feature
P-36-010317	CA-SBR-010317H	Multicomponent	Privies/dumps/trash scatters; Lithic Scatter; Engineering structure
P-36-010318	CA-SBR-010318H	Historic	Engineering structure; Other
P-36-012500	CA-SBR-012279H	Historic	Privies/dumps/trash scatters
P-36-012501	-	Prehistoric	Lithic Scatter

Primary Number	Trinomial	Age	Description
P-36-013399	-	Historic	Foundations/structure pads; Landscaping/orchard
P-36-013400	-	Historic	Farm/ranch
P-36-013401	-	Historic	Farm/ranch
P-36-013402	-	Historic	Farm/ranch
P-36-013403	-	Prehistoric	Lithic Scatter; Burial; Other
P-36-013404	-	Historic	Privies/dumps/trash scatters
P-36-013405	-	Prehistoric	Lithic Scatter
P-36-013406	-	Historic	Privies/dumps/trash scatters
P-36-013407	-	Historic	Privies/dumps/trash scatters
P-36-014908	-	Prehistoric	Lithic Scatter; Bedrock Milling Feature
P-36-014909	-	Prehistoric	Bedrock Milling Feature
P-36-023241	CA-SBR-014717H	Historic	Privies/dumps/trash scatters
P-36-023252	CA-SBR-014728H	Historic	Privies/dumps/trash scatters
P-36-023259	-	Multicomponent	Privies/dumps/trash scatters; Other
P-36-023260	CA-SBR-014736/H	Multicomponent	Privies/dumps/trash scatters; Lithic Scatter
P-36-023328	-	Prehistoric	Isolate
P-36-026527	-	Historic	Roads/trails/railroad grades; Highway/trail
P-36-026528	-	Historic	Roads/trails/railroad grades
P-36-026529	-	Historic	Landscaping/orchard; Roads/trails/railroad grades; Walls/fences; Standing structures; Walls/gates/fences
P-36-026535	-	Historic	Roads/trails/railroad grades; Highway/trail
P-36-026536	-	Historic	Highway/trail
P-36-028530	-	Historic	Single family property; Farm/ranch
P-36-061592	-	Prehistoric	Isolate
P-36-061593	-	Prehistoric	Isolate
P-36-061603	-	Prehistoric	Isolate
P-36-061604	-	Prehistoric	Isolate
P-36-064461	-	Prehistoric	Isolate
P-36-064612	-	Prehistoric	Isolate
P-36-064613	-	Prehistoric	Isolate

P-36-003677 (CA-SBR-003677)

P-36-003677 was first recorded in 1979 by G. Smith of the San Bernardino County Museum. The site record was later updated in 1981 by Michael Lerch in support of the proposed development of Tracts 11874 and 12016 (within Current Project area). P-37-003677 is described as a prehistoric quarry of jasper and chalcedony which extends over an area of 500 x 100 meters. Artifacts recorded in 1981 include lithic debitage, cores, and hammerstones. The site record from 1981 also notes that there is a similar site just north of P-37-003677, presumably referencing

P-36-005076. The southern portion of the site, as recorded in 1981, was likely impacted by the construction of the mobile home park north of Jasper Road and directly south of the currently proposed Project area (Lerch 1981b).

P-36-005076 (CA-SBR-005076)

P-36-005076 was recorded in 1982 by Michael Lerch of the San Bernardino County Museum in support of the proposed development of Tract 12170 (directly east of current Project area). This prehistoric resource is described as a light lithic scatter, comprised primarily of jasper debitage, but with some chalcedony and chert flakes as well. The site boundary recorded in 1982 spans 200 x 100 meters and consists predominantly of unmodified raw material. Overall, this site is described as being sparser with a noticeable lack of worked material when compared to P-36-003677 to the south (Lerch 1892).

5.2 Review of Historic Maps and Aerial Imagery

Dudek conducted an online review of Bureau of Land Management (BLM) General Land Office Records, historical topographic maps, and historic aerial photographs to understand the development of the Project area and surrounding properties through time. The Project area was first subdivided into Township 9 North, Range 2 West, Section 8 (W ½) in an 1855 original survey for the BLM by John C. Hays. The Plat image of the original survey shows the Project area as undeveloped and without any defining topographic features (BLM 2023).

Dudek reviewed the historic topographic maps (historic topos) depicting the Project area available for the years of 1932 to 1993 (USGS 2023). The first available historic topo from 1932 depicts the Project area as undeveloped. There appears to be an established unnamed dirt road intersecting the center of the Project area on an east to west axis. By 1956, this unnamed dirt road no longer appears as existing within the Project area. The 1956 historic topo also depicts a single structure approximately 100 feet from the southeast corner of the Project area. This structure is no longer depicted after 1971. There are no significant changes to the Project area and surround properties until 1993. By 1993, a mobile home park appears directly to the south of the Project area, where the High Desert Estates housing development currently exists (USGS 2023).

Historic aerial photographs (historic aerials) depicting the Project area are available for the years of 1952 to 2020 (NETR 2023), and generally corroborate the information depicted in the historic topos, with a few additions. The 1952 historic aerial shows water flowing in the Mojave river, which is positioned about 0.5 miles north of the Project area. Lenwood Road is also present in 1952, shown adjacent to the Project area along the western boundary. Contrary to the historic topos, the historic aerials show the Project area throughout the 1950s as without any established dirt roadways/evidence of off-road vehicle travel. By 1970, there is additional development northeast of the Project area along Agate Road. By 1984 numerous unnamed dirt pathways/roadways are seen winding through the Project area, mainly traversing on an east to west axis. Excavated features are also observable on the 1984 aerial, but not before this. Though no formal development is visible within the Project area, immediately to the south there is a mobile home community in development, as well as an agricultural development directly across Lenwood Road to the west. The 1984 historic aerial also shows a vegetated area (confirmed to be a depression through fieldwork) in the central portion of the Project area. There is an expansion of this vegetated area throughout the historic aerial images until 1995. This information may indicate that the Project area was a popular “rockhounding” location between 1970 and 1995. This location being a destination for rockhounds is supported by the presence of the high-quality lithic material within the Project area and would have involved exploratory excavation and collection of rocks and minerals. In this case the agate and other rocks. After 1995, there are no visible changes to the Project area as depicted in the historic aerials (NETR 2023).

Overall, the Project area appears to have remained undeveloped throughout the latter half of the 20th century as depicted in the historic topographic maps and historic aerial photographs. The presence of dirt pathways/roadways throughout also indicate the informal use of the Project area for overland vehicle travel and recreational purposes by surrounding communities since at least the 1980s. Additionally, there is evidence in the historic aerials to indicate that the Project area was used for rockhounding and fossil collecting since at least the 1980s as well.

6 Results

The approximately 100-acre Project area is comprised of low desert pavement surfaces to the south (Figure 3), sand dune formations to the north (Figure 4) and eroded rhyolite bedrock outcrops throughout. Ground surface visibility was moderate (40-60%) within the desert pavement surfaces and in areas of denser vegetation, and excellent (70-100%) within areas of regular vehicle overland travel and among the sand dunes formations. Vegetation within the Project area consisted of creosote bush (*Larrea spp.*) and various species of invasive grasses. Surface soils within the Project area were characterized as light brown silty sand. Within the sand dune formations, soils were loosely compacted. Disturbed desert pavement surfaces were present throughout the Project area and consisted of highly compacted, light brown silty sand, and sub-angular rhyolite and cryptocrystalline silicate nodules. Evidence of disturbances within the Project area included modern trash/evidence of trash dumping, rodent burrows, vehicle overland travel routes, excavation pits and holes, and pedestrian/recreational pathways.

The pedestrian survey relocated two previously recorded cultural resources and identified seven previously unrecorded cultural resources within the Project area. P-36-003677 (prehistoric quarry/lithic scatter), first recorded in 1979, was re-recorded in support of this Project. The resource boundary was expanded slightly to the northwest, and an historic-era component was recorded as well. P-36-005076 (prehistoric quarry/lithic scatter), first recorded in 1982, was re-recorded in support of this Project as well. The resource boundary was significantly expanded to the west, north, and south, and an historic-era component was recorded as well.

The pedestrian survey recorded seven newly identified cultural resources: LE-S-001, LE-I-001, LE-I-002, LE-I-003, LE-I-004, LE-I-005, and LE-I-006 (Table 3). LE-S-001 is described as a small prehistoric lithic scatter, while LE-I-001, LE-I-003, LE-I-006 are historic isolates, and LE-I-001, LE-I-002, and LE-I-005 are prehistoric isolates.

Isolates are categorically ineligible for the CRHR; therefore, they are only summarized in Table 3. Cultural resource locations can be seen in Confidential Appendix B (Cultural Resources Overview Map). Confidential Appendix C contains each resource's respective California DPR site and isolate forms.

Table 3. Newly Identified Resources within Project Area

Dudek Number	Age	Designation	Description
LE-S-001	Prehistoric	Site	Lithic Scatter
LE-I-001	Historic	Isolate	Bi-Metal Cans (4)
LE-I-002	Prehistoric	Isolate	Lithic Shatter (2)
LE-I-003	Historic	Isolate	Associated Ceramic Fragments (30+)
LE-I-004	Prehistoric	Isolate	Lithic Flakes and Shatter (3)
LE-I-005	Prehistoric	Isolate	Lithic Shatter (2)
LE-I-006	Historic	Isolate	Church-Key Opened Cans (5)

Figure 3. Overview of Project area. Photo taken at southeast corner, view facing north.

Figure 4. Overview of Project area. Photo taken near northern boundary, view facing south.

6.1 Identified Archaeological Resources

Three archaeological resources were identified within the Project area as a result of Dudek investigations (P-36-005076, P-36-003677, and LE-S-001). These resources were subject to intensive-level, close-interval survey and detailed recordation.

6.1.1 P-36-003677 (CA-SBR-003677)

P-36-003677 is a multicomponent site that includes a large, diffuse, low-density lithic scatter, several historic-era/ modern mining and rock features, and a diffuse historic-era refuse scatter. The site measures approximately 250 meters (N/S) by 650 meters (E/W). The prehistoric component consists of a cryptocrystalline silicate (CCS) biface, CCS and rhyolite single reduction loci (4), one (1) core tool, three (3) simple flake tools, 11 lithic cores, three (3) assayed cobbles, one (1) battered cobble, and several scatters of primary, secondary, and interior flakes, and pieces of lithic shatter all made of rhyolite, mudstone, CCS, and indeterminate volcanic material.

The historic-era/modern component consists of rusted bolt-in-can lid possible mining claim tags, four (4) mining adits/excavation pits, seven (7) rock features, two (2) wooden posts, one (1) embedded iron I-beam, a Suncrest Soda Bottle (1938-1968), rusted bi-metal cans (1960-1980), and additional recorded and unrecorded historic-era/modern refuse scatters and ephemeral mining features.

Disturbances include vehicle overland travel paths, modern human activity as evidenced by modern trash and debris, evidence of illicit excavation and collection, and rodent bioturbation. Erosional events and modern human activity have impacted the primary deposition and context of the material culture recorded at P-36-003677.

P-36-003677 is located within the Mojave River Corridor in the Mojave Desert, within a sand dune/desert pavement landscape 1 mile south of the Mojave River. Vegetation includes creosote and some species of invasive grasses. Soils are characterized as light brown silty sand/sand. Throughout the desert pavement/sand dune landscape, there are naturally occurring bedrock outcrops, and eroded raw material cobbles and nodules that were deposited onto the landscape via the Mojave River.

The prehistoric component of P-36-003677 is characterized as a low-density lithic scatter typical of expedient raw material quarrying and early-stage lithic reduction. The most common artifacts found at these sites include primary and secondary flakes, shatter, and expediently utilized/assayed cobbles. Low-density lithic scatters of this type are common among the Mojave River Corridor. Typically, archaeological deposits of this nature are surficial and have low potential for buried cultural deposits. Bedrock exposure over a large area attests to the surficial nature of most of the site. The majority of artifacts and features associated with the historic-era/modern component of P-36-003677 are likely the result of rockhounding/informal recreational activities that occurred from the 1980s on, although there is some evidence (bi-metal cans and Suncrest Soda Bottle) to indicate that this location was used as an historic-era dump site. Table 4 provides a summary of observed artifacts and Table 5 provides an overview of documented features identified on the surface during site recordation as part of this inventory and evaluation effort.

Table 4. Surface Artifact Inventory of P-36-003677 (CA-SBR-003677)

Artifact Type	Age	Description	Artifact Count
Flaked Stone	Prehistoric	Biface	1
Flaked Stone	Prehistoric	Red CCS Simple Flake Tool	2
Flaked Stone	Prehistoric	CCS Simple Flake Tool	1
Flaked Stone	Prehistoric	Brown CCS Bifacial Core	1
Flaked Stone	Prehistoric	CCS Unifacial Core	2
Flaked Stone	Prehistoric	CCS Core	1
Flaked Stone	Prehistoric	Rhyolite Unifacial Core Tool	1
Flaked Stone	Prehistoric	Grey Volcanic Unidirectional Core	1
Flaked Stone	Prehistoric	Mudstone Unidirectional Core	1
Flaked Stone	Prehistoric	Mudstone Unifacial Core	1
Flaked Stone	Prehistoric	Unidirectional Core	1
Flaked Stone	Prehistoric	Core	2
Flaked Stone	Prehistoric	CCS Assayed Cobble	2
Flaked Stone	Prehistoric	Volcanic Assayed Cobble	1
Flaked Stone	Prehistoric	CCS Interior Flake	8
Flaked Stone	Prehistoric	Volcanic Interior Flake	1
Flaked Stone	Prehistoric	CCS Secondary Flake	15
Flaked Stone	Prehistoric	Mudstone Secondary Flake	1
Flaked Stone	Prehistoric	CCS Primary Flake	100+
Flaked Stone	Prehistoric	Shatter	10+
Hammerstone	Prehistoric	CCS Battered Cobble	1
Glass	Historic	Suncrest Soda Bottle; 1938-1968	1
Metal	Historic / modern	Bi-Metal Can	3

Table 5. Surface Feature Inventory of P-36-003677

Age	Description	Feature Count
Historic / modern	Concentration (6) of possible mining claim tags; hexagonal carriage bolt punctured through rusted tin can lids	1
Historic / modern	Possible mining claim tags	1
Historic / modern	Concentric rock rings	1
Historic / modern	Excavation pit	4
Historic / modern	Rock Alignment “SPUR”	1
Historic / modern	Rock pile with burnt trash and wooden post	1
Historic / modern	Rock alignment	3
Historic / modern	Embedded Iron I-beam	1
Historic / modern	Embedded Wooden Post	2
Historic / modern	Oval rock ring	1
Prehistoric	Single Reduction Locus	4
Historic / modern	Historic-era/Modern Refuse Scatter	3

6.1.2 P-36-005076 (CA-SBR-005076)

P-36-005076 is a multicomponent site that includes a large, diffuse, low-density lithic scatter, several historic-era/modern mining/excavation features, and a diffuse historic-era/modern refuse scatter. The site measures approximately 400 meters (N/S) by 600 meters (E/W). The prehistoric component consists of a CCS SRL (debitage count: 6), three (3) simple flake tools, seven (7) lithic cores, an assayed cobble, and several scatters of primary, secondary, and interior flakes, and pieces of shatter all made of rhyolite and CCS. The historic-era/modern component consists of eight (8) mining adits/excavation pits, rusted bi-metal and generic cans, and additional non-diagnostic historic-era/modern refuse and ephemeral mining features.

Disturbances include vehicle overland travel paths, modern human activity as evidenced by modern trash and debris, evidence of illicit excavation and collection, and rodent bioturbation. Erosional events and modern human activity have impacted the primary deposition and context of the material culture recorded at P-36-005076.

P-36-005076 is located within the Mojave River Corridor in the Mojave Desert, within a sand dune/desert pavement landscape 0.6 miles south of the Mojave River. Vegetation includes creosote and some species of invasive grasses. Soils are characterized as light brown silty sand/sand. Throughout the desert pavement/sand dune landscape, there are naturally occurring bedrock outcrops, and eroded raw material cobbles and nodules that were deposited onto the landscape via the Mojave River.

P-36-005076 is characterized as a low-density lithic scatter typical of expedient raw material quarrying and early-stage lithic reduction. The most common artifacts found at these sites include primary and secondary flakes, shatter, and expediently utilized/assayed cobbles. Low-density lithic scatters of this type are common among the Mojave River Corridor. Typically, archaeological deposits of this nature are surficial and have low potential for buried cultural deposits. Table 6 provides a summary of artifacts observed on the surface of this site. The majority of artifacts and features associated with the historic-era/modern component of P-36-005076 are likely the result of rockhounding/informal recreational activities that occurred from the 1980s on, although there is some evidence (bi-metal cans) to indicate that this location was used as an historic-era dump site. Table 6 provides a summary of observed artifacts identified on the surface during site recordation as part of this inventory and evaluation effort.

Table 6. Surface Artifact Inventory of P-36-005076 (CA-SBR-005076)

Artifact Type	Age	Description	Artifact Count
Flaked Stone	Prehistoric	CCS Simple Flake Tool	3
Flaked Stone	Prehistoric	CCS Bifacial Core	1
Flaked Stone	Prehistoric	CCS Unidirectional Core	1
Flaked Stone	Prehistoric	CCS Core	3
Flaked Stone	Prehistoric	Rhyolite Core	2
Flaked Stone	Prehistoric	CCS Assayed Cobble	1
Flaked Stone	Prehistoric	CCS Interior Flake	53+
Flaked Stone	Prehistoric	Rhyolite Interior Flake	2
Flaked Stone	Prehistoric	CCS Secondary Flake	30+
Flaked Stone	Prehistoric	CCS Primary Flake	83+
Flaked Stone	Prehistoric	Rhyolite Primary Flake	1
Flaked Stone	Prehistoric	CCS Shatter	6
Metal	Historic / modern	Bi-Metal Can	2
Metal	Historic / modern	Can	2

6.1.3 LE-S-001

LE-S-001 is a prehistoric, low-density lithic scatter, located between P-36-005076 to the north, and P-36-003677 to the south. The site measures approximately 55 meters (N/S) by 60 meters (E/W) and consists of a single CCS unidirectional core, a diffuse scatter of CCS debitage (primary, secondary, interior flakes and shatter), as well as a single 5-meter concentration of red CCS debitage. There were no obvious hammerstones found in association with LE-S-001, nor was there any evidence of prehistoric domestic activity. Additionally, there were no formal artifacts, diagnostic artifacts, or temporal markers found in association with LE-S-001.

Disturbances include vehicle overland travel paths, modern human activity as evidenced by modern trash and debris, and rodent bioturbation. Erosional events and modern human activity have likely impacted the primary deposition and context of the material culture recorded at LE-S-001.

LE-S-001 is located within the Mojave River Corridor in the Mojave Desert, within a sand dune/desert pavement landscape 0.8 miles south of the Mojave River. Vegetation includes creosote and some species of invasive grasses. Soils are characterized as light brown silty sand/sand. Throughout the desert pavement and sand dune landscape, there are naturally occurring bedrock outcrops and eroded raw material cobbles and nodules deposited onto the landscape via the Mojave River.

The lithic assemblage at LE-S-001 is typical of expedient raw material quarrying and early-stage lithic reduction. The most common artifacts found at these sites include primary and secondary flakes, shatter, and expediently utilized/assayed cobbles. Low-density lithic scatters of this type are common among the Mojave River Corridor. Typically, archaeological deposits of this nature are surficial and have low potential for buried cultural deposits. In this case, the lithic scatter is located on deflated desert pavement in a depression between knolls, further emphasizing the surficial nature of the deposit. Table 7 provides a summary of observed artifacts identified on the surface during site recordation as part of this inventory and evaluation effort.

Table 7. Surface Artifact Inventory of LE-S-001

Artifact Type	Age	Description	Artifact Count
Flaked Stone	Prehistoric	CCS Unidirectional Core	1
Flaked Stone	Prehistoric	Red CCS Debitage (Concentration)	25+
Flaked Stone	Prehistoric	CCS Interior Flake	5
Flaked Stone	Prehistoric	CCS Secondary Flake	1
Flaked Stone	Prehistoric	CCS Primary Flake	5
Flaked Stone	Prehistoric	CCS Shatter	14

6.2 Buried Resource Potential and Project Site Integrity

The northern end of the Project area is approximately 700 m south of the current channel of the Mojave River; the western boundary is approximately 2,300 m east of the Mojave River, and due west of downtown Barstow. The river flows through a channel between the Mitchell Range to the north, and Daggett Ridge to the south; the Project area is at the northwestern terminus geological features that both abut and are transformed by the Daggett Ridge uplift. Here, relatively subtle outcrops of eroding volcanic, metavolcanic, and sedimentary strata interleave with riverine alluvium, and both fine and coarse grain sediments transported eastward from the perennially exposed Mojave Riverbed. These eroded bedrock exposures have attracted people to them for millennia, providing them with easy access to raw materials (rhyolitic and cryptocrystalline) for production of stone tools. Erosional processes have degraded the bedrock exposures differently in different places, but also made them accessible for quarrying. At the same time, redeposition of silt and sand has concealed lower elevation portions of the bedrock, and perhaps more recently, concealed the material evidence of the people who exploited these resources.

The paleontological resources inventory prepared by Dudek (Williams 2023) provides additional information regarding local and regional geology and the potential for encountering fossils of different geological eras. They note that because sediment deflation and shifting sands are common in areas of the Mojave Desert, recent alluvial and eolian deposits are sometimes underlain by Pleistocene paleosols (fossil soil horizons) at shallow depths. The bedrock exposed in the southeast portion of the Project area may be an example of this process. However, it is important to note that no Pleistocene paleosols have been observed anywhere within the Project area, and that observation of the fossil soil horizons they cite come from a completely different depositional basin approximately 6 miles to the northwest (Stewart and Hakel 2016). Furthermore, geotechnical borings up to 35.5 feet below ground surface reveal poorly graded sands and silty sands underlain by interbedded layers of lean clay, sandy silt, silty sand, poorly graded sands, and clayey sands, as well as a strongly cemented layer of coarse-grained soil at the depths where the borings were terminated (Villegas and Andersen 2022). No definitive fossil soil horizons were reported, and the nature of the interbedded units revealed through geotechnical boring points to processes of eolian erosion, redeposition, and post-depositional weathering expected of an arid environment downwind of an alluvial drainage.

Soils in the area are mapped as Dune Land and Victorville Sandy Loam in the north; Joshua Loam and Victorville Sandy Loam are present in the central portion of the site; and Rock Outcrop areas are mapped in the southern and northern areas of the Project area (SoilWeb 2023). This is generally consistent with conditions observed during Dudek's archaeological survey. The level of disturbance throughout the Project area, coupled with the limited number of diagnostic artifacts, makes it difficult to assign specific temporal attributes to the historic-era/modern elements of the observed resources. As noted above, P-36-003677 and P-36-005076 were surveyed in 1979 and

1981; these studies did not identify substantial disturbances outside of off-highway vehicle (OHV) activity, nor were any historic-era artifacts or features observed. Subsequent to these surveys, the development of the community to the south of the Project area occurred. A cursory site visit was conducted in 2006; the area was observed to have been substantially disturbed. This period of disturbance is generally supported by review of the historical maps and imagery, as previously discussed in detail above. Given the absence of possible mining/excavation pits or other features reported in the 1979 and 1981 reports, it can be reasonably concluded that the majority of these elements that are observable within P-36-003677 and P-36-005076 post-date these studies and are, therefore, modern or near-modern in age. Given the easy accessibility and high quality of the lithic source, the beauty of the CCS and jasper materials, and the popularity of the Barstow area for "rockhounding", it is very likely that a good deal of the excavated soils and other disturbances to the area were caused by geologic hobbyists seeking and removing rock samples.

Areas to the north and the south associated with Dune Land have a higher potential for buried deposits. In addition, both areas are associated with higher relative densities of archaeological resources. By contrast, the center of the Project area where limited prehistoric or historic era materials were encountered, is relatively low potential for buried resources. This area appears to have been subject to a high degree of previous disturbance.

In general, artifact complexity, variability, and frequency are relatively low within the archaeological resources documented in the Project. While buried resource potential is possible in the areas discussed above, information gathered from surface evidence has provided an understanding of the range and frequency of artifacts associated with these resources. The likelihood for substantially different archaeological assemblages and/or deposits, or significant features, to be present in subsurface contexts is unlikely.

6.2.1 Sub-Surface Archaeological Testing

To evaluate the likelihood of buried cultural deposits further, two Dudek archaeologists (Jessica Colston and Patrick Hadel) accompanied by one representative from the Yuhaaviatam of San Manuel Nation (Kristen Tuosto) conducted a single day of sub-surface archaeological testing on March 4, 2025. The effort was conducted in accordance with the details provided in the *Lenwood EV Truck Charging Station – Cultural Resources Sub-Surface Testing Plan* (Barton 2025a – Appendix E) which was reviewed and approved by San Bernardino County and Consulting Tribes. This Testing Plan called for 6 sub-surface investigations, all of the same type (i.e., 50 x 50-centimeter Shovel Test Pits [STP], to a maximum likely depth of 60 centimeters below surface). All 6 STPs were to be placed in approximately the same area: the northeast portion of the Project site where wind-blown sediments accumulate in a dune complex and may bury (and therefore obscure) cultural resources that might otherwise be visible on the surface. The location of each STP was determined based on field conditions and discussions between the Dudek archaeologists and the representative from the Yuhaaviatam of San Manuel Nation.

Complete details of this one-day testing effort are provided in the *Memorandum: Electric Vehicle Charging Station and Logistics Facility Project – Cultural Resources Sub-Surface Testing Results* (Barton 2025b – Confidential Appendix F), which was also reviewed and approved by San Bernardino County and Consulting Tribes. What follows is a summary. No hearths, items indicative of domestic activities, funerary items, or in-tact cultural strata were observed in any of the STPs. The only STP with any cultural material was excavated to a relatively shallow depth (18 cmbs) where bedrock was encountered. This is likely indicative of deflation, where artifacts deposited on the surface of the dunes have migrated downwards as smaller sediments are transported away by wind, leaving cultural materials concentrated near an impervious, stable surface. The absence of in-tact cultural stratigraphy and a rich and/or diverse artifact assemblage in any of the STPs indicates that the potential for substantial or otherwise

complex buried cultural deposits that could contribute to California Register of Historical Resources eligibility is low in the dune complex. Present management recommendation, including implementation of archaeological and Native American monitoring and inadvertent discovery protocols, are considered to remain applicable and appropriate.

6.2.2 Geotechnical Fault-Slip Trenching

Two geotechnical testing trenches were excavated by Dudek heavy equipment operator Kevin DiSabatino between July 21 and July 24, 2025, in support of Terracon's geological exploration of geological fault rupture hazards (Terracon 2025). The two trenches were located in the southeastern portion of the Project site. The "West Trench" was approximately 320 feet long and approximately 7 feet deep with benched side walls sides halfway through for safety. This made the overall excavation approximately 10 feet wide. The "East Trench" was approximately 120 feet long and 10 feet wide. The East Trench also had a crook in the alignment to the east at the northern end. Stations were marked by the Terracon Geologist at 10-foot increments along the length of the trenches.

To further examine the potential for buried cultural resources, Dudek archaeologist Jessica Colston inspected both trenches on July 22 and July 24, 2025. Jesse Gonzales was present both days for Tribal Monitoring on behalf of the Yuhaaviatam of San Manuel Nation.

The surface stratum (Stratum 1) was surficial sandy loam and generally was observed from surface to a depth of 2 feet in the area of the trenches. Stratum 2 (the Barstow Formation) is a laminated sandstone and siltstone stratum angled at approximately 30-degrees of uplift. This formation is well cemented and sorted. Stratum 3 is a pale grey sandstone, very well sorted with few gravels or inclusions.

The West Trench and East Trench both reveal a large angular unconformity, Unconformity A, trending East/West, perpendicular to the roughly north/south alignment of the trenches. Unconformity A consists of massive well-sorted reddish-brown silty sand with caliche (calcium carbonate) inclusions. It appears to have scoured the surface exposure of Stratum 2, as well as Stratum 3, as shown in Figures 5, 6 and 7. The presence of caliche in Unconformity A indicates stability of the landform for several thousand years. While Stratum 1 is the only stratum that has not begun to undergo lithification it has been subject to pedogenesis (i.e. the process of soil formation).

In the area of the geotechnical trenching (the southeastern portion of the Project site) the potential for sub-surface cultural resources is low because the depth of the friable soil and sand above bedrock is shallow and the alluvial sediments are of considerable antiquity (deposited upwards of 100,000 – 15,000 years ago; see Terracon 2025). By contrast, the wind-blown dune sands (in the northwest portion of the Project site) are much younger, mobile, and capable of burying cultural resources formerly located on or near the surface. However, sub-surface archaeological testing in the northwest portion of the site (see Section 6.2.1) did not reveal significant buried cultural resources, and did not produce any other evidence (geomorphic or anthropomorphic) that would indicate high potential for buried cultural resources.

Figure 5. West Trench, East Wall @ Station 100

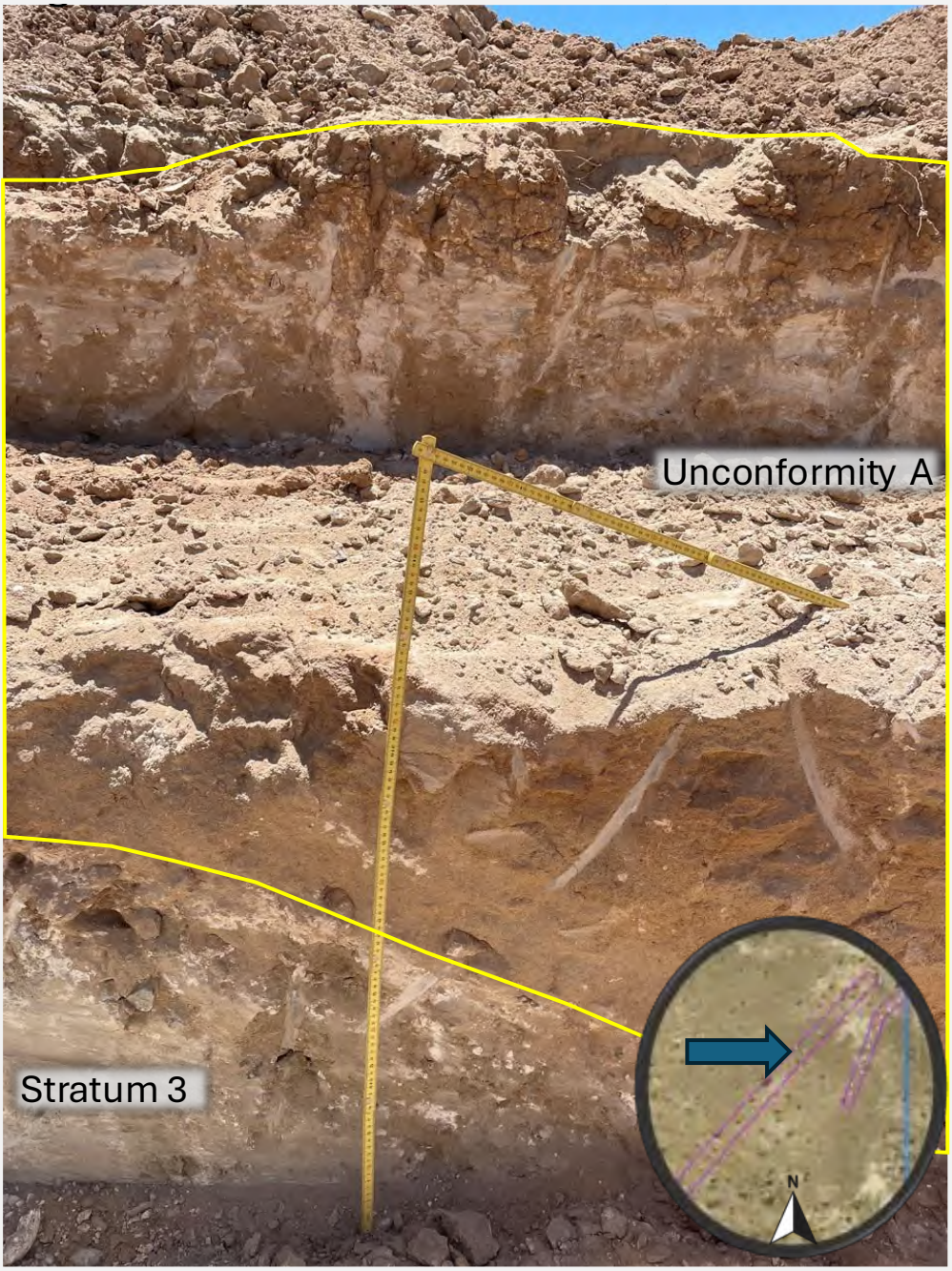


Figure 6. East Trench, West Wall @ Station 30

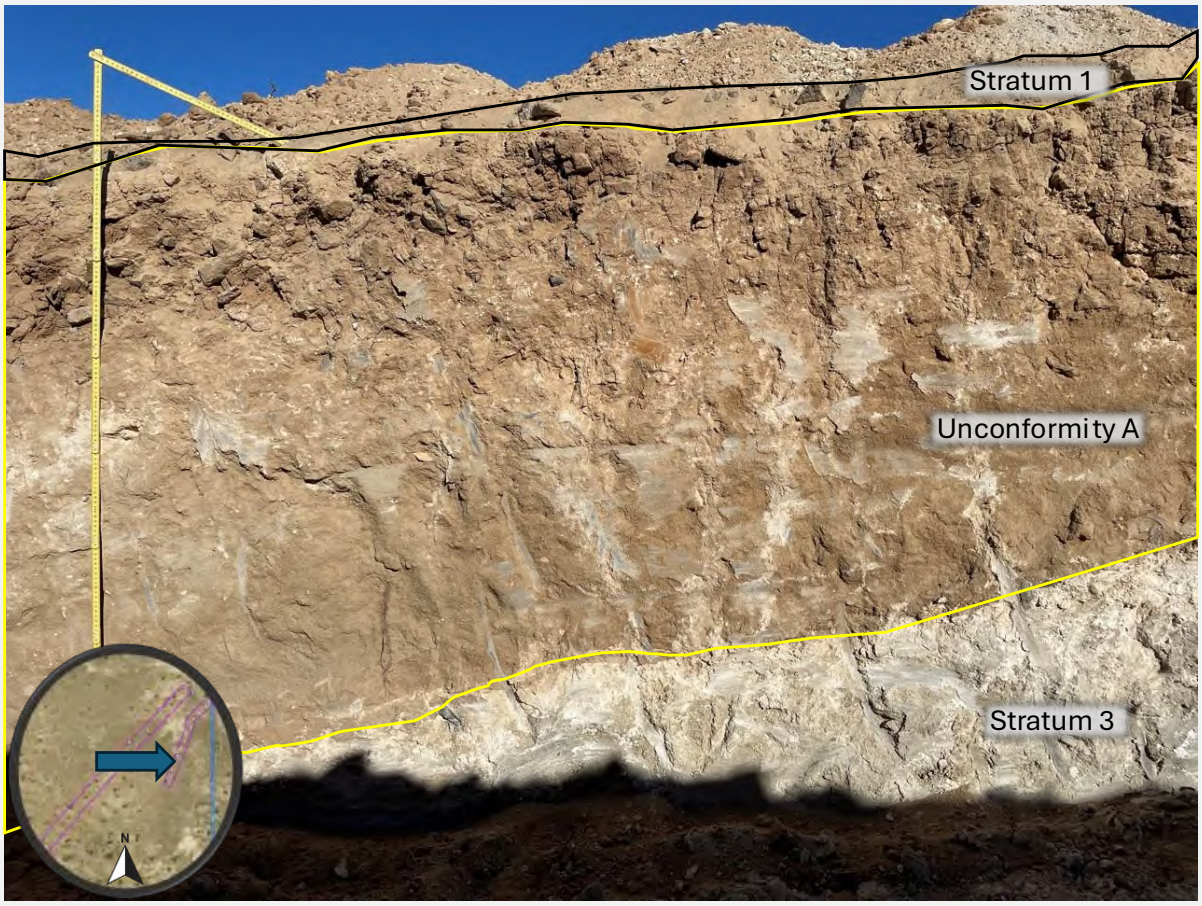
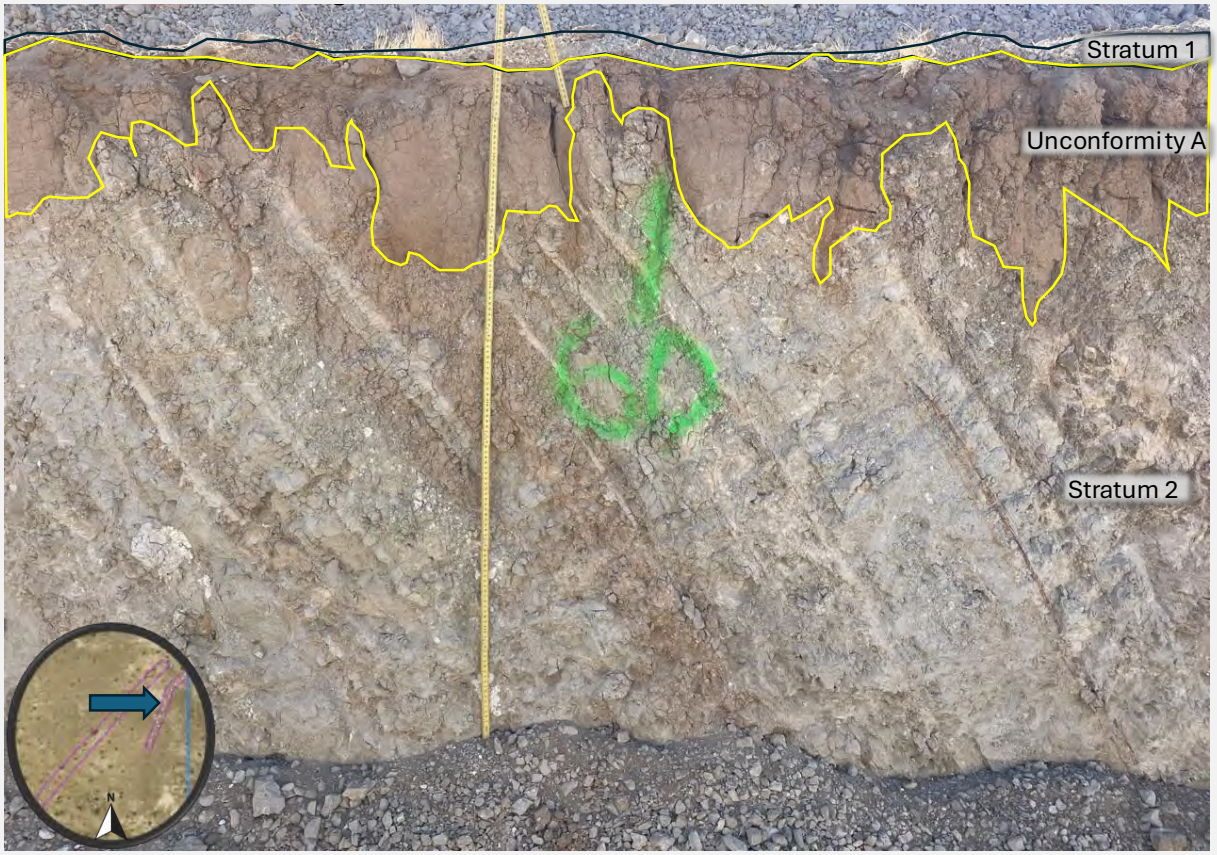


Figure 7. East Trench, East Wall @ Station 60



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7 Summary and Mitigation Measures

Dudek conducted a cultural resources inventory and evaluation-level cultural resources investigation for the proposed Project. The SCCIC records search identified two previously recorded cultural resources that intersect the Project area. These include two prehistoric lithic quarries/lithic scatters (P-36-003677 and P-36-005076). A search of the NAHC SLF did not identify any previously recorded Native American cultural resources within the Project area or within a one-mile buffer of the Project area. Additionally, a review of historic topographic maps and aerial imagery indicate that the Project area has remain undeveloped since at least 1952.

Dudek conducted a cultural resources pedestrian survey of the Project area and successfully re-identified both previously recorded cultural resources (P-36-003677 and P-36-005076) and recorded seven newly identified cultural resources. These newly identified cultural resources include a prehistoric lithic scatter (LE-S-001), three prehistoric lithic isolates (LE-I-002, LE-I-004, and LE-I-005), and three historic-era isolates (LE-I-001, LE-I-003, and LE-I-006). Isolates are categorically ineligible for listing on the CRHR and not considered unique archaeological resources under CEQA. Post-survey sub-surface archaeological testing was also conducted beyond the western boundary of site P-36-005076 at the request of Yuhaaviatam of San Manuel Nation, and excavation of two long deep trenches for geotechnical investigation were monitored for cultural resources. No significant cultural resources were recorded in these sub-surface inspections and the geomorphology in those areas indicate that the potential for significant buried cultural resources is minimal.

As noted previously, the Project area is near the reported location of the ethnohistoric Serrano settlements of *Tutupeat* and *Sisugenat*, (Sutton 2017). This was also the traditional territory of the *Yohaviatum* (also referred to as the Yuhaaviatam). Engagement with traditionally culturally affiliated Native American Tribes has been initiated. Please note that Tribal Cultural Resources represent an independent, albeit often related, resource type under CEQA. San Bernardino County has provided notification of the Project pursuant to AB 52 The Yuhaaviatam of San Manuel Nation and the Morongo Band of Mission Indians responded to the notification and received the prior version of this Cultural Resources Inventory to review.

7.1 Thresholds of Significance

The significance criteria used to evaluate a project's impacts to cultural resources under CEQA are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to cultural resources would occur if the project would:

a. Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5.
b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5.
c. Disturb any human remains, including those interred outside of dedicated cemeteries.

7.2 Evaluation and Impacts Analysis

Threshold a. **Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?**

No historic era non-archaeological built-environment resources (presently used or standing buildings, structures, or features that are 45 years of age or older) are present within the Project area. Archaeological resources are addressed independently below.

Threshold b. **Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?**

Archaeological inventory efforts indicate that three prehistoric sites fall within the Project area. Two of these were previously recorded (P-36,003677 and P-36-005076) and one was newly identified through recent Dudek surveys (LE-S-001). A substantial level of near-modern and modern disturbance has occurred to these resources, including refuse dumping, OHV activity, and illicit excavation and collection of cultural and natural materials. In addition, six newly recorded isolates (three prehistoric and three historic-era) were identified. Site descriptions and results of the archaeological evaluation of the three recorded cultural resources (P-36-005076, P-36-003677 and LE-S-001) located within the Project area are presented below (Table 8).

Table 8. Cultural Resources Evaluation Results

Primary Number/Trinomial	Age	Description	Eligibility Recommendation
P-36-003677 (CA-SBR-003677/H)	Multicomponent	Lithic Quarry, Lithic Scatter, and Near-Modern/Modern Era Refuse Scatter	Ineligible for CRHR listing
P-36-005076 (CA-SBR-005076/H)	Multicomponent	Lithic Quarry, Lithic Scatter and Near-Modern/Modern Era Refuse Scatter	Ineligible for CRHR listing
LE-S-001	Prehistoric	Lithic Scatter	Ineligible for CRHR listing

Two previously recorded archaeological sites intersect the Project area: P-36-005076 and P-36-003677 (in the northeastern and southeastern sectors of the project area, respectively). One additional small prehistoric lithic scatter, LE-S-001, was recorded by Dudek near the center of the Project area. Both previously recorded resources have been characterized previously as prehistoric lithic quarries/lithic scatters. Following conventional practices when these resources were initially recorded, resource boundary delineation appears to have been defined by landform topography (including bedrock outcrops) rather than by the distribution of cultural material. Dudek surveys largely confirmed previous descriptions of these sites. The southern site contains visible bedrock, with discrete concentrations of lithic debris while the northern site is more of an amalgam of bedrock-derived cobbles, intermixed with sand, and occasional cultural material. The southeastern-most portion of the Project area (at P-36-003677) contains a concentration of material comprising of approximately 80 artifacts per 1,500 sq meters, while a similar size area in the northern site (P-36-005076) contains only a dozen. Part of this may be that cultural materials in the southern site rest on exposed bedrock and are therefore more visible than they might be in the northern site (which is an aggregate of erosion and deposition); it may also be that it was simply easier to locate raw materials on the exposed bedrock of the southern site in the past. In all cases, where sand dunes accumulate at the base of the landforms, artifacts are sparse, and may be concealed by soil deposition caused by dune mobility.

Cultural materials at both sites are typical of low-density, expedient raw material quarrying and early-stage lithic reduction. The most common artifacts are primary and secondary debitage, and shatter. Some amorphous cores with little to no preparation are also present; most seem to be assayed cobbles. Only three potential formed tools were recorded (a fragment of a bifacially-edged implement; and two early stage, broken, bifacially worked cores). Dudek did not locate any obvious hammerstones, and there was no evidence for domestic activity (e.g. butchering tools, groundstone, ceramics, shell ornaments, etc.).

While P-36-003677, P-36-005076, and LE-S-001 provide information pertaining to raw material acquisition and may have some antiquity (on the basis of visible differences in patination across different pieces of debitage), they represent a common resource type. There are substantially larger and more complex archaeological resources of this type nearby in the broader region. The artifact assemblages visible on the surface of these archaeological resources are of low frequency, density, and variability. While geomorphic characteristics of the area do support the potential for buried resources, any such buried deposit would very likely reflect the same patterns and assemblages observable on the surface. Sub-surface testing and monitoring of geotechnical trenching confirms this (see Section 6.2 and Confidential Appendix F). In addition, the Project area has been substantially disturbed through OHV activity and illicit excavation and collection. This issue of integrity further affects the potential for these documented archaeological resources to convey their significance as archaeological resources under CEQA.

Based on observed information, P-36-003677, P-36-005076, and LE-S-001 do not appear to be associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States (Criterion 1); the sites are not associated with the lives of persons important to the local area, California, or the nation (Criterion 2); and the sites do not embody the distinctive characteristics of a type, period, region, or method of construction, or represent the work of a master, or possess high artistic values (Criterion 3). Additionally, these resources do not appear to yield, or have potential to yield, information important to the prehistory or history of the local area, California, or the nation (Criterion 4). Therefore, P-36-003677, P-36-005076, and LE-S-001 are recommended as not eligible for listing in the CRHR. Furthermore, as a common resource type, these resources do not meet the criteria for a "unique archaeological resource" under Public Resources Code § 21083.2. These resources are not significant under CEQA and local regulations.

While no significant cultural resources have been identified within the Project Area, the presence of cultural material, noted above, and the geomorphic context indicate that Project activities have the potential to result in the discovery of previously unidentified resources. With implementation of implementation of **Mitigation Measure (MM) CUL-1, MM-CUL-2,** and **MM-CUL-3,** impacts to archaeological resources would be less than significant.

Threshold c. Would the project disturb any human remains, including those interred outside of dedicated cemeteries?

Human remains and associated grave goods are protected under California law. The SCCIC records search did not identify any archaeological resources with reported human remains that have potential to be impacted by the Project. Additionally, no human remains were observed within the Project area during the Dudek archaeological survey, sub-surface archaeological testing, or geotechnical trenching. Nevertheless, given the sensitivity of the area, the potential for accidental discovery remains, and would be potentially significant. Archaeological and Native American monitoring is recommended for all initial ground disturbing activities in and around known cultural resources within the Project area (see MM-CUL-3). Specific strategies for implementation of this program will be included in the Cultural Resources Management Plan (CRMP), which is to be reviewed by the lead agency and consulting tribes and finalized prior to construction (see MM-CUL-1). This plan will provide specific requirements for

the treatment of human remains, should they be encountered (as further described in MM-CUL-2). With implementation of **MM-CUL-1, MM-CUL-2,** and **MM-CUL-3,** impacts to human remains would be less than significant.

7.3 Mitigation Measures

By implementing the following list of recommended measures (RM), impacts to archaeological resources and human remains would be less than significant.

MM-CUL-1 **Cultural Resource Management Plan (CRMP):** To mitigate impacts to known archaeological resources, as well as those resources that may be encountered inadvertently during construction-related activities, a CRMP shall be developed. The CRMP shall be reviewed and approved by San Bernardino County, acting as lead agency, prior to issuance of grading permits. It shall be subject to review and input from Consulting Tribes (i.e., the Yuhaaviatam of San Manuel Nation and the Morongo Band of Mission Indians). The CRMP shall, at a minimum, include and expand upon the following components:

- Should design refinements result in possible impacts to other prehistoric sites, located outside of the current project parcel limits, management strategies shall be developed on a case-by-case basis (e.g., establishment of construction buffers) and will be subject to review and approval by the lead agency.
- The CRMP shall outline specific methods for ground disturbance during construction. Areas within dune complexes shall be subject to "controlled grading," where soil will be excavated or otherwise removed in shallow intervals from the surface and/or other appropriate methods such that subsurface conditions can be observed and sampled throughout initial disturbance by construction.
- The CRMP shall require that a Worker Environmental Awareness Program (WEAP) addressing cultural resources and Tribal Cultural Resources be developed by a Secretary of the Interior (SOI)-qualified archaeologist. The WEAP shall be implemented through on-site training of construction staff by a qualified archaeologist. Tribal representatives from Consulting Tribes shall be invited to attend and/or participate in the WEAP training should they elect to and will be given ten days' notice prior to the training. The WEAP shall include a description of the types of cultural material that may be encountered, cultural sensitivity issues, regulatory issues, and the proper protocol for treatment of the materials in the event of a find.
- To the extent construction activities uncover previously unknown or additional potentially significant components of known cultural resources, all such activities shall stop in the vicinity of the resource until the significance of the resource(s) is determined. An appropriate buffer for avoidance during construction is typically 60 feet, which may be adjusted at the recommendation of a qualified archaeologist meeting SOI qualifications, so that the exclusion buffer allows key areas of construction to proceed while ensuring that no ongoing project activities will affect the find. The CRMP shall provide for archaeological evaluation to occur, as approved by San Bernardino County, and in consultation with Consulting Tribes. While the archaeologist is engaged with the find, work outside of the buffer may only continue with the presence of an additional archaeologist to monitor the work. Resources shall be evaluated by a qualified archaeologist through an archaeological testing phase that consists of systematic excavations of a sample of areas within the Project area to determine the integrity

of the archaeological deposits, the horizontal and vertical extent of the deposits, and the quantity and diversity of artifacts contained within the deposits. The Project proponent may use the information from the testing phase as described in the resulting report to refine or revise the Project impact area for purposes of avoidance. The goal is to avoid, if feasible, or minimize impacts to significant deposits based on the results of the test excavations. The qualified archaeologist shall assess if the archaeological site qualifies as a significant or unique archaeological resource under the criteria of the California Environmental Quality Act (CEQA) Guidelines Section 15064.5, or a Tribal Cultural Resource under the criteria of Public Resources Code Section 21074, in consultation with San Bernardino County, and Consulting Tribes. For purposes of this mitigation measure, feasibility of avoidance shall be determined by San Bernardino County based on the recommendation of the Project proponent, in consultation with Consulting Tribes. If avoidance is not feasible, preservation in place, if feasible, is the preferred manner of mitigating impacts to archaeological resources pursuant to CEQA Guidelines Section 15126.4(b)(3)(A). However, Section 15126.4(b)(3)(C) also recognizes that data recovery through excavation may be the only feasible mitigation for significant or unique cultural resources at times; therefore, this contingency should be provided for as well in the CRMP.

- Regarding Tribal Cultural Resources, where avoidance or preservation in place are not feasible, the preferred treatment is for Tribal Cultural Resources to be reburied as close to the original find location as possible. However, should reburial within/near the original find location during project implementation not be feasible, then another reburial location should be identified on-site, if feasible, by the Project proponent in consultation with Consulting Tribes and approved San Bernardino County. Reburial should not occur until all ground-disturbing activities associated with the project have been completed, all monitoring has ceased, and all cataloguing and basic recordation of cultural resources have been completed.
- Should it occur that avoidance, preservation in place, or on-site reburial are not feasible options for treatment of Tribal Cultural Resources, the landowner shall relinquish all ownership and rights to material suitable for curation and confer with Consulting Tribes to identify an American Association of Museums (AAM)-accredited facility within the County of San Bernardino that can accept the materials into their permanent collections and provide for the proper care of these objects in accordance with the 1993 CA Curation Guidelines. A curation agreement with an appropriate qualified repository shall be developed between the Project proponent and museum that legally and physically transfers the collections and associated records to the facility. This agreement shall stipulate the payment of fees necessary for permanent curation of the collections and associated records and the obligation of the Project proponent to pay for those fees.
- The CRMP shall define the requirements for inadvertent discoveries, communication and notification to San Bernardino County and consulting parties, daily monitoring log preparation, and the final construction monitoring report. The final monitoring report shall be submitted to the San Bernardino County, Consulting Tribes, and the South Central Coastal Information Center.

MM-CUL-2 **Treatment of Human Remains:** If human remains are found during evaluations, data recovery, construction monitoring, or any Project-related ground-disturbing activity, all work within 100 feet of the find shall cease and the San Bernardino County Coroner shall be notified within 24 hours.

The remains shall be treated with appropriate dignity pursuant to the requirements of California Public Resources Code Section 5097.98 and the California Environmental Quality Act Guidelines Section 15064.5(e). Project-specific requirements (e.g. stop work buffers, County Coroner contact information) shall be included in the Cultural Resource Management Plan.

MM-CUL-3 **Construction Monitoring:** A qualified archaeologist shall monitor initial grading, subsurface disturbances, or other ground-disturbing activities on the Project site. If unanticipated cultural resources are encountered during construction, the process outlined by the Cultural Resource Management Plan (CRMP) shall be followed. General responsibilities of the archaeological monitor shall include monitoring construction, preparation of daily monitoring logs, reporting and assessing inadvertent discoveries, communication with on-site Native American monitors and contractors, guiding installation and tracking maintenance of environmentally sensitive area marking, and generally ensuring implementation of the CRMP and approved mitigation. The final Cultural Resources Monitoring Report shall act as a record of compliance with guiding documents and mitigation.

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Confidential Appendix A

SCCIC Records Search Results

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Confidential Appendix B

Cultural Resources Overview Map

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Confidential Appendix C

California DPR Site Forms

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Appendix D

NAHC Sacred Lands File Search Results

From: Jessica Colston <jcolston@dudek.com>

Sent: Tuesday, January 24, 2023 12:17 PM

To: NAHC@NAHC; Adam Giacinto

Subject: SLF Request Dudek PN 15054

Attachments: Records_Search_Map.pdf; Sacred Lands File Contact Form_15054.pdf

Hello NAHC Staff,

Please see the attached SLF request form and Project area map.

Hope you are all having a great day!

Thanks,

Jessica

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95501
(916) 373-3710
(916) 373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: EVC Truck Stop Project - Dudek No. 15054

County: San Bernardino

USGS Quadrangle

Name: Barstow, Barstow SE, Hinkley, & Hodge

Township: 9N Range: 2W Section(s): 4, 5, 6, 7, 8, 9, 16, 17, and 18

Company/Firm/Agency:

Dudek

Contact Person: Jessica Colston

Street Address: 605 Third Street

City: Encinitas, CA Zip: 92024

Phone: (760) 815-6642 Extension:

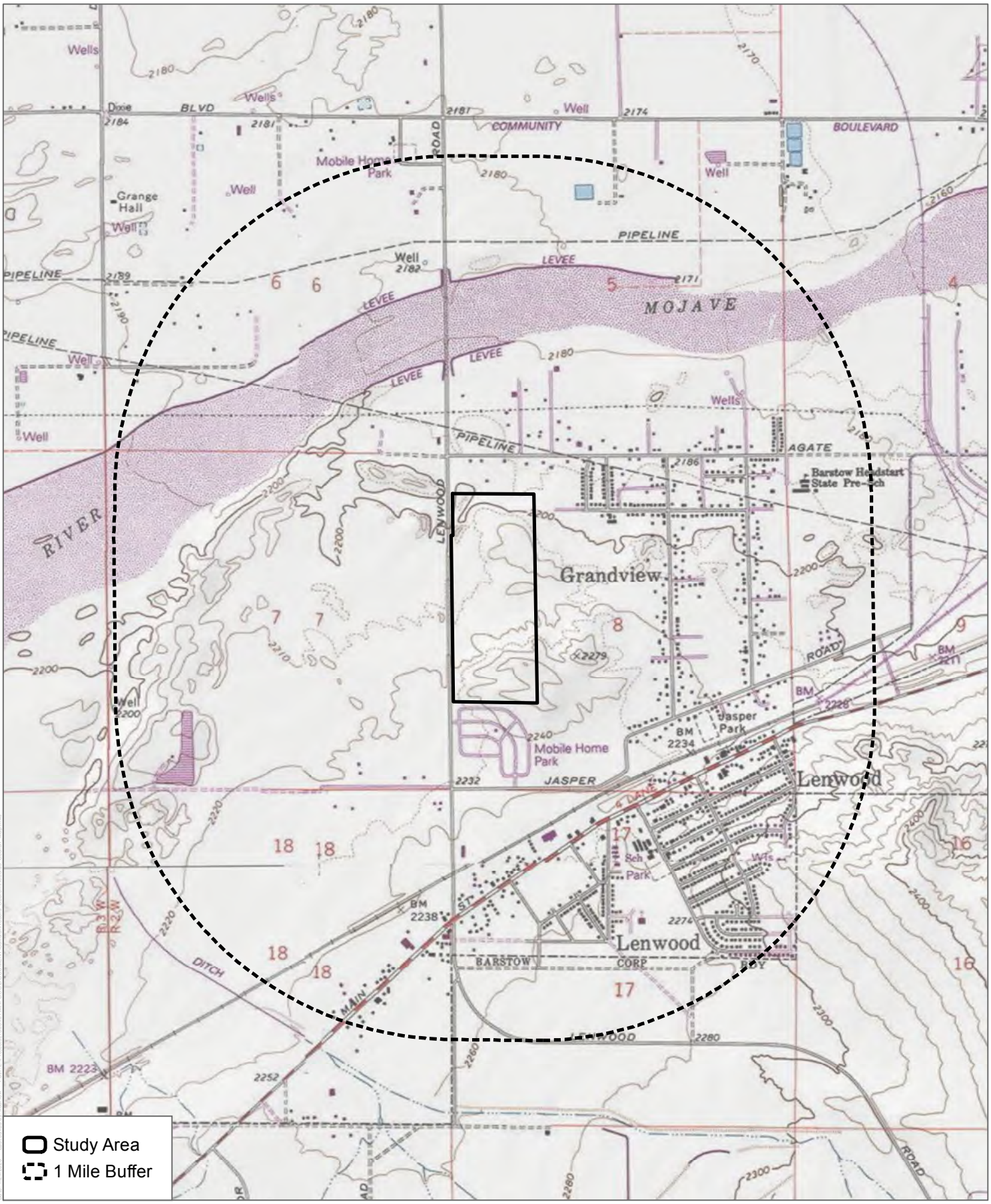
Fax:

Email: jcolston@dudek.com

Project Description:

The project will entail developments on an empty lot adjacent to Lenwood Rd, consisting of approximately 100 acres.

☑ Project Location Map is attached



SOURCE: USGS 7.5-Minute Series Barstow, Hinkley, Barstow SE, Hodge Quadrangles
Township 9N; Range 2W; Sections 4, 5, 6, 7, 8, 9, 16, 17, 18

DUDEK

0 1,000 2,000 Feet
0 285 570 Meters
1:24,000

Records Search
EVC Truck Stop Project

From: Vela, Cameron@NAHC <Cameron.Vela@nahc.ca.gov>

Sent: Tuesday, February 14, 2023 5:38 PM

To: Jessica Colston

Subject: EVC Truck Stop Project Dudek No. 15054 Project

Attachments: SLF No EVC Truck Stop Project Dudek No. 15054 Project 2.14.2023.pdf; EVC Truck Stop

Project Dudek No. 15054 Project List 2.14.2023.pdf

Good Afternoon,

Attached is the response to the project referenced above. If you have any additional questions, please feel free to contact our office email at nahc@nahc.ca.gov.

Thank You,

Cameron Vela

Native American Heritage Commission

1550 Harbor Blvd., Suite 100

West Sacramento, CA 95691

Cameron.vela@nahc.ca.gov

Direct Line: (916) 573-0168

Office: (916) 373-3710

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February 14, 2023

Jessica Colston
Dudek

Via Email to: jcolston@dudek.com

Re: EVC Truck Stop Project Dudek No. 15054 Project, San Bernardino County

Dear Ms. Colston:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Cameron.vela@nahc.ca.gov.

Sincerely,

Cameron Vela

Cameron Vela
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
San Bernardino County
2/14/2023

Kern Valley Indian Community
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Kern Valley Indian Community
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Kern Valley Indian Community
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Banning, CA, 92220 — Serrano
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Fax: (951) 572-6004
abrierty@morongo-nsn.gov

Morongo Band of Mission Indians
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Banning, CA, 92220 — Serrano
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abrierty@morongo-nsn.gov

Quechan Tribe of the Fort Yuma Reservation
Jill McCormick, Historic Preservation Officer
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historicpreservation@quechantribe.com

Quechan Tribe of the Fort Yuma Reservation
Manfred Scott, Acting Chairman
Kw'ts'an Cultural Committee
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Phone: (928) 750 - 2516
scottmanfred@yahoo.com

San Fernando Band of Mission Indians
Donna Yocum, Chairperson
P.O. Box 221838 — Kitanemuk
Newhall, CA, 91322 — Vanyume
Phone: (503) 539 - 0933 — Tataviam
Fax: (503) 574-3308
ddyocum@comcast.net

San Manuel Band of Mission Indians
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Jessica.Mauck@sanmanuel-nsn.gov

Serrano Nation of Mission Indians
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Phone: (253) 370 - 0167
serranonation1@gmail.com

Serrano Nation of Mission Indians
Mark Cochrane, Co-Chairperson
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serranonation1@gmail.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed EVC Truck Stop Project Dudek No. 15054 Project, San Bernardino County.

Twenty-Nine Palms Band of Mission Indians
Darrell Mike, Chairperson
46-200 Harrison Place Chemehuevi
Coachella, CA, 92236
Phone: (760) 863 - 2444
Fax: (760) 863-2449
29chairman@29palmsbomi-nsn.gov

Twenty-Nine Palms Band of Mission Indians
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Coachella, CA, 92236
Phone: (760) 775 - 3259
amadrigal@29palmsbomi-nsn.gov

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed EVC Truck Stop Project Dudek No. 15054 Project, San Bernardino County.

Appendix E
Sub-surface Testing Plan

DUDEK
27271 LAS RAMBLAS, SUITE 340
MISSION VIEJO, CALIFORNIA 92691
T 949.450.2525

MEMORANDUM

To:	Jon Braginton, Land Use Services Department, San Bernardino County, California
From:	Loukas Barton, Dudek
Subject:	Lenwood EV Truck Charging Station – cultural resources sub-surface testing plan
Date:	February 5, 2025
cc:	Phil Angelides, Riverview Capital Investments Brian Vail, River West Investments Christine Kronenberg, Dudek
Attachment(s):	Figure 1 – Project Location

Pursuant to the requirements outlined by San Bernardino County following input from Consulting Tribes, Dudek will conduct limited-scope sub-surface testing for buried cultural resources within the Project Site but beyond the boundaries of known cultural resources. These sub-surface investigations will be conducted in areas where wind-blown sands may have covered cultural resources that might otherwise be visible on the surface. The purpose of this effort is to augment our understanding of sub-surface conditions as described previously in the revised Cultural Resources Inventory and Evaluation Report (Giacinto et al. 2024) submitted to San Bernardino County in October of 2024.

1 Background

The proposed Project is located on Lenwood Road between SR 58 and I-15, in the census-designated place of Lenwood, San Bernardino County, California. The Project falls within Section 8 of Township 9 North, and Range 2 West of the Barstow, California USGS 7.5-minute Quadrangle (Figure 1, Project Location) and encompasses 0497-142-03, 0497-142-04, 0497-142-14, and 0497-142-15 (Figure 2, Project Area).

The Project proponent proposes to develop the approximately 100-acre Project area into (1) an EV charging station to serve light duty/passenger vehicles and medium and heavy-duty trucks, and (2) a state-of-the-art concrete tilt-up logistics facility of 1,341,432 square feet in three buildings.

The proposed Project would also contain associated site improvements, including landscaping, parking, required utility facilities and upgrades, a drainage basin, and a buffer (e.g., landscaping, wall) at the project's southern boundary. Access to and from the Project area would be via Lenwood Road.

EV Charging Station

The proposed approximately 21-acre EV charging station would provide EV charging for light duty/passenger vehicles and medium and heavy-duty trucks.

The proposed EV charging station would provide a range of EV chargers to serve different charging needs (e.g., automobiles vs medium and heavy-duty trucks; slower chargers for overnight truck charging vs: MCS charging for trucks, etc.).

The EV charging station would also include a commercial building of up to 15,000 square feet that would contain ancillary uses (e.g., food, convenience services, showers for travelers, other amenities, etc.) for those utilizing the hub, as well as for local residents and nearby light industrial uses.

Logistics Facility

The remainder of the site, approximately 80-acres, would include a proposed logistics facility to meet the demand for highly functional, efficient logistics buildings that meet contemporary industry standards. The facility would consist of three buildings, each comprising 447,144 square feet, with a total square footage of 1,341,432.

2 Sub-Surface Testing Plan

Dudek will conduct a single day of sub-surface archaeological testing on the Project site. This will require two archaeologists travel from Encinitas to Barstow to complete the work. This task assumes that no more than 6 sub-surface investigations, all of the same type (i.e. 50 x 50-centimeter Shovel Test Pits, to a maximum likely depth of 60 centimeters below surface), and all placed in approximately the same area (the northeast portion of the Project Site), will be required. This task also assumes that Native American tribes will be present for and contribute to all archaeological activities (and will cover the cost of doing so). Dudek will provide notification of the field work schedule to Consulting Tribes ten days in advance.

Shovel Test Pits

STPs, measuring 50 × 50-centimeters, are intended to provide for a general understanding of the subsurface conditions throughout the investigated area. STPs may be excavated in 10-centimeter or 20-centimeter arbitrary levels, depending on subsurface conditions, with shallow intervals being more appropriate where archaeological material may be encountered and greater volumetric control is required. Relatively accurate vertical provenience is allowed by STPs. This type of sub-surface inspection also provides for a larger sample when looking for buried cultural deposits and allows for direct inspection of subsurface soil profiles along their exposed side walls. STPs are often used to delineate boundaries of previously unknown sites or components. STP forms will be completed for each STP with artifacts yielded, soil information, depth of excavation, level of disturbance, and other pertinent information required by standard practice. The maximum depth will be determined by 1) the ability to excavate and extract subsurface soils with hand-tools (i.e., rocky and/or compact, indurated soils may not allow for deeper excavations); and 2) the collapse of side-walls in loose, dry, sandy soil. We anticipate the average likely depth of STPs to be approximately 60 centimeters below surface.

Screening

The preferred strategy for all excavated matrix is to be screened through 1/8-inch (3-millimeter) wire mesh. Screens will be positioned over a tarp or plastic sheeting to collect the soil for later backfilling of the STPs. Sidewall profiles from STPs will be photographed where appropriate. In-field soil samples will be used for color and constituent

classification by depth. Optimally soils will be relatively dry, which provides for easier vertical control during excavation, quicker screening, and more accurate observation of relative hue and texture of soils.

3 Inadvertent Discoveries

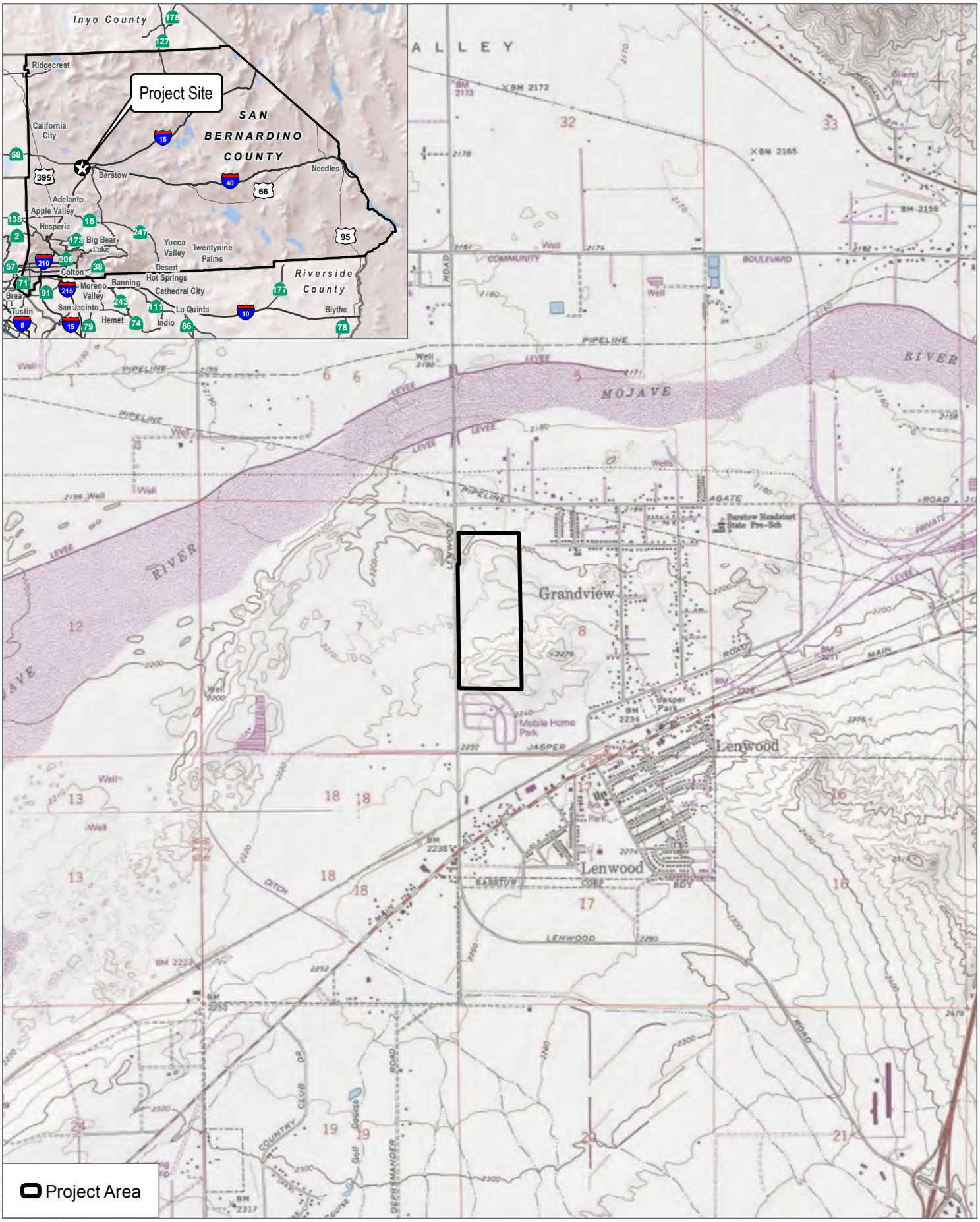
Recovered artifacts will be documented and buried in the context from which they were found. Any potential human remains, including those of Native American origin and/or potential related grave goods, will be treated in compliance with applicable codes and regulations, specifically Section 7050.5 of the California Health and Safety Code as well as CEQA Guidelines Section 15064.5. Regulatory guidance concerning requirements for confidentiality and consequences of violating State laws and regulations will be appropriately considered and implemented.

4 Post-Field Summary

Dudek will prepare a brief written Memorandum that describes the results of the sub-surface investigations for review by the Client, Consulting Tribes, and San Bernardino County. This Memorandum will generate a record of findings that contains the following: a summary of testing efforts; a table with subsurface soil descriptions; an archaeological assessment of cultural resource sensitivity in the area inspected; and a map documenting the findings. Further management recommendations/refinements will be provided, as needed based on the results of the testing efforts. Dudek assumes that review of this Memorandum of Results will require no more than one round of review/revision.

References

Giacinto, A., R. Bakhtiary, J. Colston, L. Barton, and M. Hale. 2024. *Confidential Cultural Resources Inventory and Evaluation Report: Electric Vehicle Charging Station and Logistics Facility, San Bernardino County, California*. Prepared for San Bernardino County on behalf of EVC Partners LLC, Sacramento, CA, by Dudek, Encinitas, CA. October 2024.



SOURCE: USGS 7.5-Minute Series Barstow Quadrangle

DUDEK

0 400 800 Meters

FIGURE 1

Project Location

EV Charging Truck Stop Project

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Confidential Appendix F

Sub-surface Testing Results

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Appendix E
Geotechnical Investigations

MOORE TWINING ASSOCIATES, INC.

PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
APNs 0497-142-(03, 04, 14, AND 15)
SOUTHEAST OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

Project Number:H07603.02

EVC Partners, LLC
2410 Fair Oaks Boulevard, Suite 110
Sacramento, CA 95825

July 29, 2022

www.mooretwining.com

PH: 559.268.7021
FX: 559.268.7126
2527 Fresno Street
Fresno, CA 93721

MOORE TWINING ASSOCIATES, INC.

July 29, 2022 H07603.02

Mr. Brian Vail
EVC Partners, LLC
2410 Fair Oaks Boulevard, Suite 110
Sacramento, CA 95825

Subject: Preliminary Geotechnical Engineering Investigation
Proposed Electric Charging Truck Station with Travel Center
APNs 0497-142-(03, 04, 14, and 15)
Southeast of Lenwood Road and Agate Road
Barstow, San Bernardino County, California

Dear Mr. Vail:

This report presents the findings of a preliminary geotechnical engineering investigation for the subject property. This report does not include geotechnical engineering design level recommendations for development of the site; rather it is intended to identify geotechnical engineering conditions which may present significant impacts to future site development. A project specific geotechnical engineering investigation will need to be prepared prior to design and construction when the locations and details of the proposed improvements are known.

We appreciate the opportunity to be of service to EVC Partners, LLC. If you have any questions regarding this report, or if we can be of further assistance, please contact us at your convenience at (800) 268-7021.

Sincerely,

MOORE TWINING ASSOCIATES, INC.
Geotechnical Engineering Division

Alan Villegas, EIT
Staff Engineer

PH: 559.268.7021
FX: 559.268.7126
2527 Fresno Street
Fresno, CA 93721

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PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED ELECTRIC CHARGING STATION WITH TRAVEL CENTER
APNs 0497-142-(03, 04, 14, AND 15)
SOUTHEAST OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

Project Number: H07603.02

1.0 INTRODUCTION

This report presents the findings of a preliminary geotechnical engineering investigation for the subject property.

The contents of this report include the purpose of the investigation and the scope of services provided. The background information, a description of the investigative procedures used and the subsequent findings are presented. Finally, the report provides general conclusions and preliminary recommendations. The appendices contain the drawings (Appendix A), the logs of test borings (Appendix B), and the results of laboratory tests (Appendix C).

The Geotechnical Engineering Division of Moore Twining, headquartered in Fresno, California, performed the investigation.

2.0 PURPOSE AND SCOPE OF PRELIMINARY INVESTIGATION

2.1 Purpose: The purpose of the investigation was to conduct a field exploration and a laboratory testing program, evaluate the data collected during the field and laboratory portions of the investigation, and provide the following:

2.1.1 A general description of the subsurface soil and groundwater conditions encountered;

2.1.2 Discussion of geotechnical engineering conditions identified during the preliminary investigation which may present significant impacts to site development;

2.1.3 Assessment of potential geotechnical engineering constraints such as expansive soils, liquefaction and seismic settlement, and compressible soils;

2.1.4 Discussion of foundation types and general foundation design parameters;

2.1.5 Seismic design coefficients based on the 2019 California Building Code (CBC);

2.1.6 Discussion of soil corrosivity; and

2.1.7 Final test boring logs, and laboratory test results.

This preliminary investigation did not include a design level geotechnical engineering investigation, a geologic/seismic hazards evaluation, flood plain investigation, compaction tests, environmental investigation, or environmental audit. A design level geotechnical engineering investigation will need to be conducted for use in design and construction of the project.

This preliminary geotechnical engineering investigation report is provided specifically for the proposed project described in the Site Location and Description section of this report. It is not the intent of this investigation to meet the requirements of the 2019 California Building Code (CBC), as related to geotechnical studies. Rather this report is intended to identify geotechnical engineering conditions which may present significant impacts to future to site development. This investigation did not include compaction tests, environmental investigation, or environmental audit.

2.2 **Scope:** Our proposal, dated May 31, 2022, outlined the scope of our services. The actions undertaken during the investigation are summarized as follows.

2.2.1 An aerial image showing the approximate limit of the project site, undated, provided by EVC Partners, LLC, was reviewed to understand the limits of the site.

2.2.2 A report, entitled: "Phase I Environmental Site Assessment Proposed Land Development, Southeast Corner of Lenwood Road and Agate Road, Barstow, California 92311, dated June 15, 2022, prepared by our firm, was reviewed for general background information.

2.2.3 The proposed test boring locations were marked and Underground Service Alert was contacted to mark member utilities in the immediate vicinity of the boring locations (if any).

2.2.4 Mr. Brian Vail (EVC Partners, LLC) was consulted during the investigation.

2.2.5 A visual site reconnaissance and subsurface exploration were conducted.

2.2.6 Aerial images of the site for eleven (11) individual years from 1959 to 2016, were reviewed.

2.2.7 Topographic images of the site for nine (9) individual years from 1932 to 2018, were reviewed.

2.2.8 Laboratory tests were conducted to determine selected physical and engineering properties of the subsurface soils encountered.

2.2.9 The data obtained from the investigation were evaluated to develop an understanding of the subsurface soil conditions and the engineering properties of the subsurface soils encountered.

2.2.10 This report was prepared to present the purpose and scope, background information, field exploration procedures, findings, and conclusions and preliminary recommendations.

3.0 PROJECT DESCRIPTION

The site location and description, site history, previous studies, and the anticipated construction are summarized in the following subsections.

3.1 Site Location and Description: The project site is generally located southeast of the intersection of Lenwood Road and Agate Road in the Barstow area of Kern County, California. The site has been assigned the following Assessor's Parcel Numbers (APNs): 0497-142-03, -04, -14, and -15. The approximate location of the site is shown on Drawing No. 1 in Appendix A of this report.

The site is roughly rectangular in shape and covers roughly 96 acres. The site is bounded by Lenwood Road to the east, by vacant land and residential developed properties to the north with Agate Road beyond, by a residential subdivision to the south, and by vacant land to the east.

The site consists of rolling terrain generally ranging from about 2,270 feet above mea sea level (AMSL) near the southeast corner of the site to about 2,194 feet AMSL near the northern portion of the site. Several small and shallow washes were noted through out the site. At the time of our investigation, the site was covered with scattered seasonal vegetation consisting of grasses, weeds, and scattered shrubs. Dirt roads or paths that appeared to be used by offroad vehicles were noted through out the site, including a path along the western side of the site parallel to Lenwood Road. Loose, sandy soils were noted at the ground surface. This condition made most of the site impassable to heavy two-wheel trucks. Fine to coarse gravel fragments were noted to be scattered across the ground surface.

Buried fiber optic warning markers were observed along the western boundary of the project site trending from south to north.

3.2 Site History: Based on review of historical satellite images of the site dating from 1959 to 2021, the conditions of the site have not changed significantly from 1959 to those described at the time of our field investigation conducted in June of 2022.

3.3 Previous Studies: The afore-referenced report entitled: "*Phase I Environmental Site Assessment, Proposed Land Development, Southeast of Lenwood Road and Agate Road, Barstow, California 92311"* prepared by our firm, was reviewed for general background information.

No previous geotechnical engineering reports or geological studies conducted for this site were provided for our review. If these documents are available they should be provided to Moore Twining for review.

3.4 Anticipated Construction: Based on our understanding, a new electric charging truck station with a travel center is being planned at the site. A site plan was not available at the time this report was prepared. However, based on our discussions with Mr. Brian Vail (EVC Partners, LLC), Mr. Vail indicated the site would be similar to the travel center development located at 100 Marguerite Street in Williams, California. Thus, the future development plans are anticipated to include a fueling canopy and areas for charging electric vehicles. A travel shop, truck care building and possibly a restaurant building may also be planned based on our review of the existing improvements at the travel center in Williams, California. Based on the rolling terrain, cuts and fills on the order of 5 to 10 feet may be required to establish design grades for the project.

4.0 FIELD INVESTIGATION

On June 30, 2022, Four (4) test borings were drilled at the subject site to depths of about 20 to 35½ feet below site grade (BSG) using a truck-mounted CME-75 drill rig equipped with 6-5/8 inch outside diameter (O.D.) hollow stem augers. Due to access constraints from the loose sandy surface soils, the drill rig borings were limited to the western portion of the site along an existing dirt access road. Additionally, one (1) exploratory boring was conducted using a hand-auger to an approximate depth of 3 feet BSG in the eastern portion of the site.

The borings were logged during drilling by a Moore Twining staff engineer. The borings were drilled at the approximate locations shown on Drawing No. 2 in Appendix A of this report. Logs of the borings are included in Appendix B of this report.

Standard penetration tests were conducted in the test borings, and both disturbed and relatively undisturbed soil samples were obtained. The standard penetration resistance, N-value, is defined as the number of blows required to drive a standard split barrel sampler into the soil. The standard split barrel sampler has a 2-inch O.D. and a 1⅜-inch inside diameter (I.D.). The sampler is driven by a 140-pound weight free falling 30 inches. The sampler is lowered to the bottom of the bore hole and set by driving it an initial 6 inches. It is then driven an additional 12 inches and the number of blows required to advance the sampler the additional 12 inches is recorded as the N-value.

Relatively undisturbed soil samples for laboratory tests were obtained by pushing or driving a California modified split barrel ring sampler into the soil. The soil was retained in brass rings, 2.5 inches O.D. and 1-inch in height. The lower 6-inch portion of the samples were placed in close-

fitting, plastic, airtight containers which, in turn, were placed in cushioned boxes for transport to the laboratory. Soil samples obtained were taken to Moore Twining's laboratory for classification and testing.

5.0 FINDINGS AND RESULTS

The findings and results of the field exploration and laboratory testing are summarized in the following subsections.

5.1 Mapped Surficial Geologic and Soils Conditions: Based on our review of the Geologic Map of California, San Bernardino Sheet, State of California Department of Conservation, Compilation by Thomas H. Rogers, 1967, the majority of the project site area is indicated to be underlain by Nonmarine (continental) sedimentary rock deposits (Mc), described as sandstone, shale, conglomerate, and fanglomerate. The map indicates a portion of the western edge of the site to be underlain by alluvial deposits (Qa).

According to the Web Soil Survey by the U.S. Department of Agriculture Natural Resources Conservation Service, the near surface soils (the upper 5 feet) at the site consist of poorly graded sands with silt and silty clay soils.

5.2 Soil Profile: The near surface soils encountered in the borings drilled for this investigation included poorly graded sands and silty sands to depths of about 3½ to 10 feet BSG. The near surface sandy soils were underlain by interbedded layers of lean clay, sandy silt, silty sand, deeper poorly graded sands, and clayey sand to the maximum depth explored of about 35½ feet BSG. At a depth of about 35½ feet BSG, practical auger refusal was encountered in test boring B-2 due to a strongly cemented layer of coarse grained soil.

The near surface sandy soils encountered in the upper 3½ to 5 feet BSG were loose to medium dense. The underlying silts and clays were generally stiff to hard, with exception of a silt encountered at a depth of about 10 feet in Boring B-2, which was soft. The deeper granular soils (poorly graded sands, silty sands and clayey sands) were medium dense to very dense.

5.3 Chemical Tests: Chemical tests were performed on one (1) near surface sample of collected from depth of about 0 to 5 feet BSG. The results indicated pH values of 8.0; a minimum resistivity value of 2,700 ohm-centimeter; 0.0047 percent by weight concentration of sulfate; and 0.0076 percent by weight concentration of chloride.

5.4 Groundwater Conditions: Groundwater was not encountered in any of the test borings to the maximum depth explored of about 35½ feet BSG.

Historical ground water data from the Department of Water Resources indicates that a well located about 500 feet north of the site indicates that ground water has ranged from about 90 feet BSG in 1992 to about 82 feet BSG in 2020. A second well in the vicinity of the site indicated groundwater at a depth of 60 feet BSG in 1958.

It should be recognized, that groundwater elevations typically fluctuate with time, since they are dependent upon seasonal precipitation, irrigation, land use, and climatic conditions as well as other factors. Therefore, water level observations at the time of the field investigation may vary from those encountered both during the construction phase and the design life of the project. The evaluation of such factors was beyond the scope of this investigation and report.

5.5 Existing Surface and Subsurface Conditions: At the time of our field investigation, the surface conditions at the site consisted or rolling terrain with some relatively small seasonal washes/drainages. Based on review of online readily available topographic information and various topographic maps from 1932 to 2018, the southeast portion of the site is higher in elevation in comparison to the northern end by about 70 feet, with low and high spots in between.

Based on our observations, the site generally appears to consist of native terrain with the exception of dirt roads or trails which were observed throughout parts of the site. The soil disturbance resulting from the dirt paths through the site appears to be relatively shallow (about upper 12 inches or less). Coarse fragments of native rock (size of coarse gravel fragments) were noted at the surface in some areas, while loose, windblown sand deposits cover other areas of the site. In addition, scattered trash and scattered bushes were noted across the site. As part of the site preparation, loose surface soils, disturbed soils and artificial fills will need to be prepared and compacted to provide adequate support of the proposed improvements.

We understand that underground fiber optic communication lines trend from north to south along the west edge of the project site (possibly in a utility easement).

5.6 Expansive Soils: One of the potential geotechnical hazards evaluated at this site is the expansion potential of the near surface soils. Over time, expansive soils will experience cyclic drying and wetting as the dry and wet seasons pass. Expansive soils experience volumetric changes (shrink/swell) as the moisture content of the clayey soils fluctuate. These shrink/swell cycles can impact foundations and lightly loaded slabs-on-grade when not designed for the anticipated expansive soil pressures. Expansive soils cause more damage to structures, particularly light buildings and pavements, than any other natural hazard, including earthquakes and floods (Jones and Holtz, 1973). Expansion potential may not manifest itself until months or years after construction. The potential for damage to slabs-on-grade and foundations supported on expansive soils can be reduced by placing non-expansive fill underlying foundations and slabs-on-grade.

In evaluation of the potential for expansive soils at the site, expansion index testing was performed on one (1) sample of the near surface silty sand soils which are anticipated to be within the zone of influence of the planned improvements. The sample was collected from depths of 0 to 5 feet BSG. The samples were selected for testing based on field observations indicating relatively high fine grained content of the samples.

The expansion index testing was performed in accordance with ASTM D4829 and the results are included in Appendix C of this report. The result of laboratory testing revealed expansion index of 0, indicating very low expansion penitential for the near surface granular soils. However, clay soils with medium plasticity were encountered as shallow as 3½ feet in one of the borings. In addition, the U.S.D.A. soil survey data identifies surface clays within a part of the site. Accordingly, expansive clays should be anticipated within the site in some areas that would be encountered during grading for the site development. In general, where expansive soils are encountered, they should be capped with a sufficient thickness of granular fill. Further evaluation of expansive soils should be evaluated as part of design level investigations.

5.7 Foundation Support: Details of the proposed construction such as structure loads were not available at the time of preparation of this report. Based on the compressibility of the near surface soils and considering the cut and fill which is likely to be required to achieve the design site grades, shallow foundations supported on engineered fill is anticipated to be the most cost effective approach for design of the building structure(s) for the site. Considering the type of structures planned for the site, support of shallow foundations on engineered fill is considered feasible for this site. The depth of engineered fill required below foundations should be determined during the design level geotechnical investigation.

5.8 Active Faulting: An "active fault" is defined, for the purpose of this evaluation, as a fault that has had surface displacement within the Holocene Epoch (about the last 11,700 years). Potentially active faults also contribute to the seismicity of the site. A widely accepted definition of "potentially active" is a fault that does not show evidence of displacement during the Holocene, but shows evidence of displacement occurring less than 1.6 million years ago (after the beginning of the Pleistocene Epoch). Since the Quaternary Period includes the Holocene and Pleistocene Epochs, Quaternary Faults are those that have documented latest fault displacement within the Holocene or Pleistocene Epochs, undifferentiated. Faults showing evidence of displacement older than 1.6 million years are usually classified as "Pre-Quaternary" and "inactive." Pre-Quaternary faults do not impact the site seismicity.

Earthquakes are caused by the sudden displacement of earth along faults with a consequent release of stored strain energy. The fault slippage can often extend to the ground surface where it manifests in abrupt relative ground displacement across a rupture surface. Damage resulting directly from fault rupture ground displacement occurs only where structures are located astride a rupture surface with relative displacement. The project site is not located in an Alquist-Priolo Earthquake Fault Zone mapped by the California Geological Survey, nor a San Bernardino County designated fault zone

(based on the San Bernardino County Land Use Plan, Geologic Hazard Overlays). The locations of active faults were evaluated based on the Fault Activity Map of California: California Geological Survey, Geologic Data Map No. 6, prepared by Jennings and Bryant. The Fault Activity Map of California identifies an active, creeping segment of the Lenwood-Lockhart fault zone (Lenwood section) mapped just east of the southern portion of the site. The nearest active fault with traditional surface rupture is a section of the Lenwood-Lockhart fault zone further southeast of the site, about 2.1 miles from the site. A concealed, potentially active fault (Lockhart section) associated with the Lenwood-Lockhart fault zone is mapped about ¾ mile to the northwest. The approximate locations of these fault sections are shown on Drawing No. 3 in Appendix A. The nearby faults shown on the U.S. Quaternary Fault map prepared by the United States Geological Survey are similar to the Fault Activity Map of California. Based on the documents reviewed, since active faults are not mapped within the site, the potential for surface rupture due to a known active fault appears to be low. However, potential impacts from the adjacent Lenwood fault section are recommended to be evaluated if a future structure is planned within a hypothetical northwest extension of the fault section shown to the east of the site.

5.9 **Site Class and Seismic Ground Motion Parameters**: Based on the 2019 California Building Code (CBC), a Site Class D represents the on-site soil conditions with standard penetration resistance, N-values, ranging from 15 to 50 blows per foot in the upper 100 feet below site grade. Based on the results of our field investigation and the 2019 California Building Code (CBC), the site soils are represented by Site Class D. Maximum Considered Earthquake (geometric mean) peak ground acceleration adjusted for site effects (PGA_M) of 0.647g was determined for the site based on Site Class D, respectively, using the Ground Motion Parameter Calculator provided by the United States Geological Survey (https://seismicmaps.org/).

A table providing preliminary design acceleration parameters for the project site, based Site Class D, is included in this report.

5.10 **Liquefaction and Seismic Settlement** Liquefaction and seismic settlement are conditions that can occur under seismic shaking from earthquake events. Liquefaction describes a phenomenon in which a saturated, cohesionless soil loses strength during an earthquake as a result of induced shearing strains. Lateral and vertical movements of the soil mass, combined with loss of bearing usually results. Fine, well sorted, loose sand, shallow groundwater conditions, higher intensity earthquakes, and particularly long duration of ground shaking are the requisite conditions for liquefaction.

The site is not located in a liquefaction hazard area identified by San Bernardino County (San Bernardino County Land Use Plan, Geologic Hazard Overlay). Based on the depth to groundwater, liquefaction is not considered a potential impact to the site.

However, due to the presence of granular soils and the high seismicity of the site area, dry seismic settlement is a potential concern. Thsu, analyses of potential seismic settlement was conducted using the computer program LIQUEFYPRO by Civiltech. The results of hazard deaggregation analysis indicates a magnitude 7.45 earthquake event is a predominant earthquake magnitude contributing to the design seismic ground motion. As indicated in Section 5.8 of this report, a Maximum Considered Earthquake (geometric mean) peak horizontal ground acceleration of 0.604g was also used for the analysis.

The analysis considered the standard penetration test results (N-values) from the soil borings, wet unit weight, and fines content throughout the depths explored (see test boring logs, Appendix B).

The results indicate that seismic induced settlement of damp to dry sandy soils as a result of the design level seismic event (such as those encountered at the location of borings B-2 and B-3) is a potential. The results of the analyses indicate total seismic settlements would be about ¾ inch. This magnitude of seismic settlement is not typically considered a concern for the type of structures contemplated at the site.

5.11 Soil Corrosion: The risk of corrosion of construction materials relates to the potential for soil-induced chemical reaction. Corrosion is a naturally occurring process whereby the surface of a metallic structure is oxidized or reduced to a corrosion product such as iron oxide (i.e., rust). The metallic surface is attacked through the migration of ions and loses its original strength by the thinning of the member.

Soils make up a complex environment for potential metallic corrosion. The corrosion potential of a soil depends on numerous factors including soil resistivity, texture, acidity, field moisture and chemical concentrations. In order to evaluate the potential for corrosion of metallic objects in contact with the onsite soils, chemical testing of soil samples was performed by Moore Twining as part of this report. The test results are included in Appendix C of this report. Conclusions regarding the corrosion potential of the soils tested are included in the Conclusions and Recommendations section of this report based on the National Association of Corrosion Engineers (NACE) corrosion severity ratings listed in Table No. 1, below.

Table No. 1
National Association of Corrosion Engineers Corrosion Severity Ratings

Soil Resistivity (ohm cm)	Corrosion Potential Rating
>20,000	Essentially non-corrosive
10,000 - 20,000	Mildly corrosive
5,000 - 10,000	Moderately corrosive
3,000 - 5,000	Corrosive
1,000 - 3,000	Highly corrosive
<1,000	Extremely corrosive

The results of soil sample analyses indicate that the near-surface soils exhibit a "highly corrosive" corrosion potential to buried metal objects.

If the manufacturers or suppliers cannot determine if materials are compatible with the soil corrosion conditions, a professional consultant, i.e., a corrosion engineer, with experience in corrosion protection should be consulted to provide design parameters. Moore Twining does not provide corrosion engineering services.

5.12 Sulfate Attack of Concrete from Soils: Degradation of concrete in contact with soils due to sulfate attack involves complex physical and chemical processes. When sulfate attack occurs, these processes can reduce the durability of concrete by altering the chemical and microstructural nature of the cement paste. Sulfate attack is dependent on a variety of conditions including concrete quality, exposure to sulfates in soil, groundwater and environmental factors. The standard practice for geotechnical engineers in evaluation of the soils anticipated to be in contact with structural concrete is to perform laboratory testing to determine the concentrations of sulfates present in the soils. The test results are then compared with the exposure classes in Table 19.3.1.1 of ACI 318 to provide guidelines for concrete exposed to soils containing sulfates. It should be noted that other exposure conditions such as seawater or dissolved sulfates in water or materials other than soils can result in sulfate exposure categories to concrete that are higher than the concentrations of sulfate in soil. The design engineer will need to determine whether other potential sources of sulfate exposure need to be considered other than exposure to sulfates in soil. The sulfate exposure classes for soils from Table 19.3.1.1 are summarized in the below table.

Table No. 2
ACI Exposure Categories for Water Soluble Sulfate in Soils

Sulfate Exposure Class (per ACI 318)	Water Soluble Sulfate in Soil (Percent by Mass)
S0	Less than 0.10 Percent
S1	0.10 to Less than 0.20 Percent
S2	0.20 to Less than or Equal to 2.00 Percent
S3	Greater than 2.00 Percent

Common methods used to resist the potential for degradation of concrete due to sulfate attack from soils include, but are not limited to the use of sulfate-resisting cements, air-entrainment and reduced water to cement ratios. The laboratory test results are included in Appendix C of this report. Conclusions regarding the sulfate test results are included in the Conclusions section of this report.

6.0 CONCLUSIONS AND PRELIMINARY GEOTECHNICAL ENGINEERING RECOMMENDATIONS

Based on the findings of this preliminary investigation, the following preliminary conclusions and recommendations were identified.

6.1 Based on the findings of this investigation, the site is considered suitable for the proposed development from a geotechnical engineering standpoint. When a site plan is developed identifying the locations and type of structures planned for the project, this information should be provided to Moore Twining in order to develop a scope of work and estimate for a design level geotechnical investigation.

6.2 The near surface soils encountered in the borings drilled for this investigation included poorly graded sands and silty sands to depths of about 3½ to 10 feet BSG. The near surface sandy soils were underlain by interbedded layers of lean clay, sandy silt, silty sand, deeper poorly graded sands, and clayey sand to the maximum depth explored of about 35½ feet BSG. At a depth of about 35½ feet BSG, practical auger refusal was encountered in test boring B-2 due to a strongly cemented layer of coarse grained soil. Groundwater was not encountered throughout the maximum depth explored of 35½ feet BSG.

6.3 Hard, sandy lean clay was encountered at a depth of about 8½ feet BSG in Boring B-1 and Nonmarine sedimentary rock deposits (Mc) are mapped within the site. Increased excavation effort should be anticipated for excavations to be conducted in areas of hard or very dense conditions.

6.4 The result of laboratory testing indicate the near surface granular soils are suitable for use as fill below pavements and slabs on grade for the project. Relatively shallow clay soils with medium plasticity were encountered in one of the borings. Where expansive clays are encountered, these soils should be capped with granular fill to reduce the potential for excessive heave of overlying slabs on grade and other surface improvements.

6.5 Based on the findings of this investigation, the use of shallow foundations and slab-on-grade floors supported on engineered fill are considered feasible for the building structures planned for the project. Over-excavation of the near surface soils will be required to place engineered fill below building foundations in order to reduce the potential for excessive static settlement. Based on our experience with similar projects, a net allowable soil bearing pressure of about 2,000 to 2,500 pounds per square foot for dead-plus-live loads may be appropriate for design of spread foundations.

6.6 The following seismic factors were developed for the site using the Ground Motion Parameter Calculator provided by SEOAC and OSHPD (http://seismicmaps.org), based upon a site latitude of 34.89024300 degrees and a site longitude of -117.11429900 degrees. The data provided in Table No. 3 are based upon the procedures of Sections 1613.2.1 through 1613.2.4 of the 2019 California Building Code, ASCE 7-16 and Supplement No. 1 to ASCE 7-16. The data in Table No. 3 were not determined based upon a ground motion hazard analysis. If required, Moore Twining should be notified and requested to conduct the additional analysis, develop updated seismic factors for the project, and update the following values.

Table No. 3
Seismic Factors

Seismic Factor	2019 CBC Value
Site Class	D
Maximum Considered Earthquake (geometric mean) peak ground acceleration adjusted for site effects (PGA_M)	0.604
Mapped Maximum Considered Earthquake (geometric mean) peak ground acceleration, (PGA)	0.549
Spectral Response At Short Period (0.2 Second), Ss	1.248
Spectral Response At 1-Second Period, S_1	0.436
Site Coefficient (based on Spectral Response At Short Period), Fa	1.001
Site Coefficient (based on spectral response at 1-second period) Fv	see note
Maximum considered earthquake spectral response acceleration for short period, S_{MS}	1.249
Maximum considered earthquake spectral response acceleration at 1 second, S_{M1}	see note
Five percent damped design spectral response accelerations for short period, S_{DS}	0.833

Seismic Factor	2019 CBC Value
Five percent damped design spectral response accelerations at 1-second period, S_{D1}	see note

Note 1: Requires ground motion hazard analysis per ASCE Section 21.2 (ASCE 7-16, Section 11.4.8), unless the structural engineer determines that an exception of Section 11.4.8 of ASCE 7-16 is applicable for the project design.

6.7 Due to the groundwater depth, liquefaction is not considered a concern for the site. The results indicate that seismic induced settlement of damp to dry sandy soils as a result of the design level seismic event (such as those encountered at the location of borings B-2 and B-3) is a potential. The results of the analyses indicate total seismic settlements would be about ¾ inch. This magnitude of seismic settlement is not typically considered a concern for the type of structures contemplated at the site.

6.8 The Fault Activity Map of California identifies an active, creeping segment of the Lenwood-Lockhart fault zone (Lenwood section) mapped just east of the southern portion of the site. The nearest active fault with traditional surface rupture is a section of the Lenwood-Lockhart fault zone further southeast of the site, about 2.1 miles from the site. A concealed, potentially active fault (Lockhart section) associated with the Lenwood-Lockhart fault zone is mapped about ¾ mile to the northwest. The approximate locations of these fault sections are shown on Drawing No. 3 in Appendix A. Based on the documents reviewed, since active faults are not mapped within the site, the potential for surface rupture due to a known active fault appears to be low. However, potential impacts from the adjacent Lenwood fault section are recommended to be evaluated if a future structure is planned within a hypothetical northwesterly extension of this fault section which is shown east of the site.

6.9 Based on the resistivity values from testing, the National Association of Corrosion Engineers (NACE) corrosion severity ratings shown in Table No. 1, the soils exhibit a “highly corrosive” corrosion potential. Therefore, buried metal objects should be protected in accordance with the manufacturer's recommendations based on a “highly corrosive” corrosion potential. The evaluation was limited to the effects of soils to metal objects; corrosion due to other potential sources, such as stray currents and groundwater, was not evaluated. If piping or concrete are placed in contact with deeper soils or engineered fill, these soils should be analyzed to evaluate the corrosion potential of these soils. Additional laboratory testing should be performed during a design level geotechnical engineering investigation.

6.10 Based on the laboratory testing for soluble sulfates in soil, the results indicate an exposure category S0 in accordance with Table 19.3.1.1 of ACI 318, with a low potential for sulfate attack on concrete.

7.0 NOTIFICATION AND LIMITATIONS

7.1 The preliminary conclusions and recommendations presented in this report are based on the information provided regarding the proposed construction, and the results of the field and laboratory investigation, combined with interpolation of the subsurface conditions between boring locations.

7.2 This report does not include design level recommendations. These additional investigations will be required for to provide data for final geotechnical design.

7.3 The preliminary conclusions and recommendations contained in this report are valid only for the project discussed in the Background Information section of this report. The use of the information and recommendations contained in this report for structures on this site not discussed herein or for structures on other sites not discussed in this report is not recommended. The entity or entities that use or cause to use this report or any portion thereof for another structure or site not covered by this report shall hold Moore Twining, its officers and employees harmless from any and all claims and provide Moore Twining's defense in the event of a claim.

7.4 This report is issued with the understanding that it is the responsibility of the client to transmit the information and preliminary recommendations of this report to developers, owners, buyers, architects, engineers, designers, contractors, subcontractors, and other parties having interest in the project so that the steps necessary to carry out these recommendations in the design, construction and maintenance of the project are taken by the appropriate party.

7.5 This report presents the results of a preliminary geotechnical engineering investigation only and should not be construed as an environmental audit or study.

7.6 Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally-accepted engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied.

7.7 Reliance on this report by a third party (i.e., that is not a party to our written agreement) is at the party's sole risk. If the project and/or site are purchased by another party, the purchaser must obtain written authorization and sign an agreement with Moore Twining in order to rely upon the information provided in this report for design or construction of the project.

8.0 CLOSING

Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally-accepted engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied.

We appreciate the opportunity to be of service. If you have any questions regarding this report, or if we can be of further assistance, please contact us at your convenience.

Sincerely,
MOORE TWINING ASSOCIATES, INC.

Alan Villegas, EIT
Staff Engineer

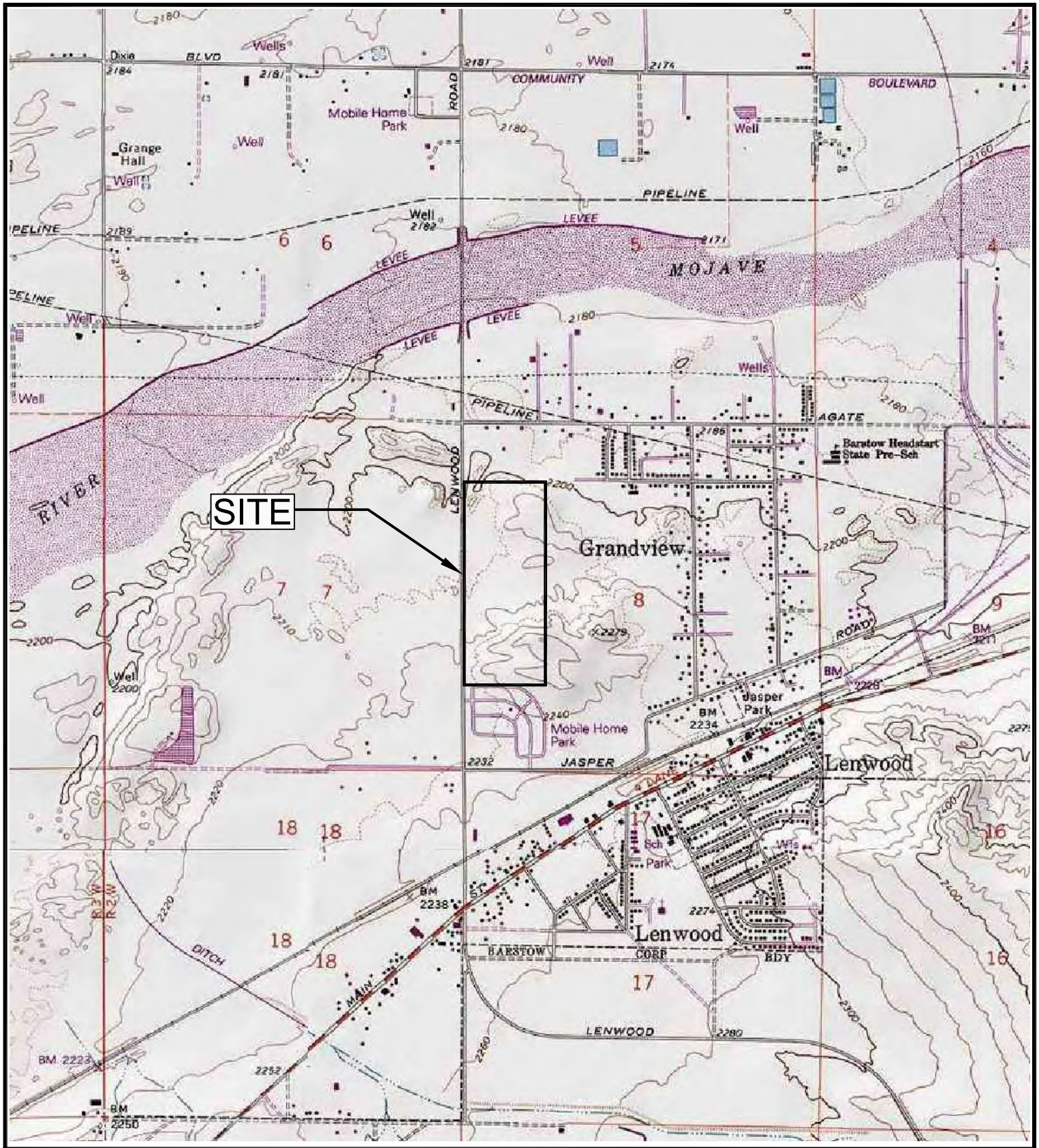
Read Andersen, RGE
Division Manager

APPENDIX A

DRAWINGS

Drawing No. 1 - Site Location Map

Drawing No. 2 - Test Boring Location Map



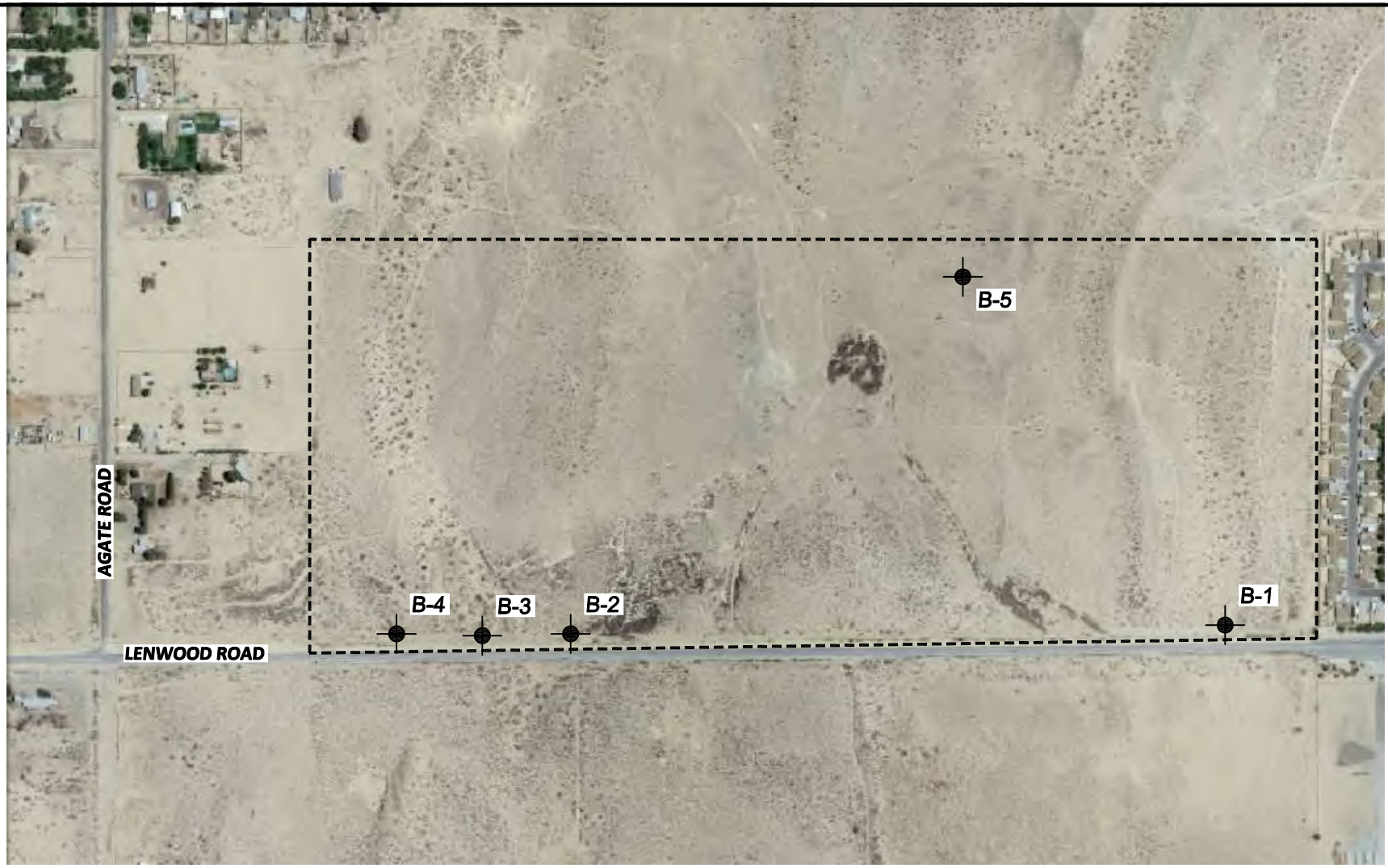
SOURCE: U.S.G.S. TOPOGRAPHIC MAP, 7 ½ MINUTE SERIES
BARSTOW, CALIFORNIA QUADRANGLE 1993

0 2000
APPROXIMATE SCALE IN FEET

SITE LOCATION MAP
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
APN 0497-142-04, 0497-142-03, 0497-142-15, AND 0497-142-14
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

FILE NO.: 07603-02-01	DATE: 07/27/2022
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07603.02	DRAWING NO. 1

MOORE TWINING ASSOCIATES, INC.



APPROXIMATE TEST BORING LOCATION

N

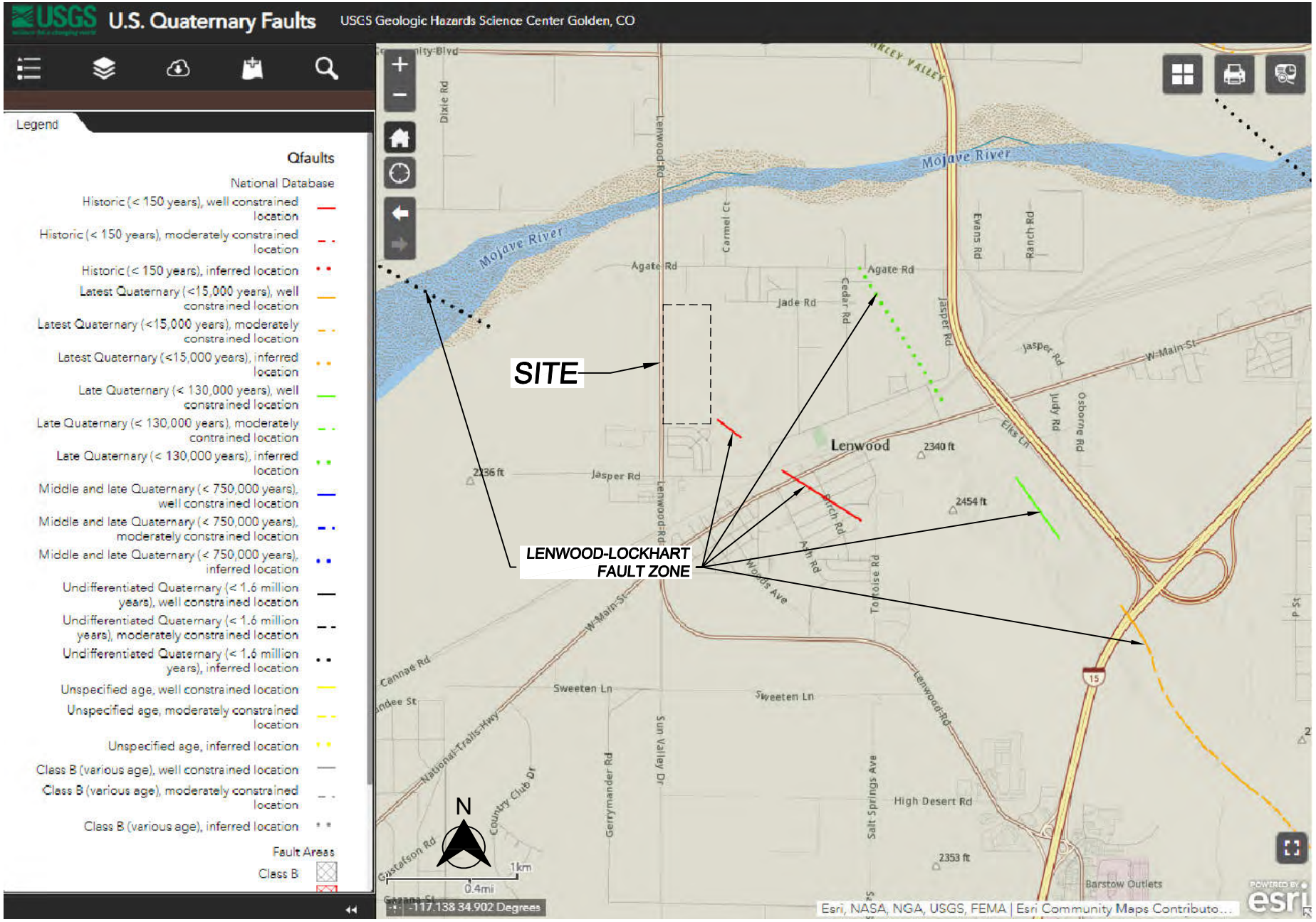
0 500

APPROXIMATE SCALE IN FEET

TEST BORING LOCATION MAP
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
APN 0497-142-04, 0497-142-03, 0497-142-15, AND 0497-142-14
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

FILE NO. 07603-02-02	DATE DRAWN: 07/27/2022
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07604.02	DRAWING NO. 2

MOORE TWINING ASSOCIATES, INC.



MAP OF ACTIVE AND POTENTIALLY ACTIVE FAULTS RELATIVE TO SITE
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
APN 0497-142-04, 0497-142-03, 0497-142-15, AND 0497-142-14
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

FILE NO. 07603-02-02	DATE DRAWN: 07/29/2022
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07603.02	DRAWING NO. 3

MOORE TWINING ASSOCIATES, INC.

APPENDIX B

LOGS OF BORINGS

This appendix contains the final logs of borings. These logs represent our interpretation of the contents of the field logs and the results of the field and laboratory tests.

The logs and related information depict subsurface conditions only at these locations and at the particular time designated on the logs. Soil conditions at other locations may differ from conditions occurring at these test boring locations. Also, the passage of time may result in changes in the soil conditions at these test boring locations.

In addition, an explanation of the abbreviations used in the preparation of the logs and a description of the Unified Soil Classification System are provided at the end of Appendix B.

MOORE TWINING ASSOCIATES, INC.

Test Boring: B-1

Project: Proposed Electric Charging Truck Station with Travel Center

Project Number: H07603.02

Drilled By: James C.

Drill Type: CME 75

Auger Type: 6-5/8-Inch Hollow Stem Auger

Hammer Type: 140 Pound Auto Trip

Logged By: Jordi F.

Date: June 30, 2022

Elevation: N/A

Depth to Groundwater First Encountered During Drilling: N/E

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	Remarks	N-Values blows/ft.	Moisture Content %
0	2/6 7/6 10/6	SM	SILTY SAND; medium dense, moist, fine to medium grained, light brown, trace gravel		17	2.0
5	7/6 9/6 16/6	ML	SANDY SILT; very stiff, moist, low plasticity, grayish brown	+4=0.3% Sand=41.9% -200=57.8% Non-Viscous Non-Plastic	25	9.1
10	44/6 50/2	CL	SANDY LEAN CLAY; hard, moist, low plasticity, brown	DD=95.2 pcf	> 50	10.6
15	12/6 23/6 50/4		Decrease in sand content, increase in plasticity		> 73	
20	21/6 43/6 50/5		Increase in moisture content, iron oxide staining		> 93	
25			Bottom of boring B-1 at 20 feet			

Notes:

Figure Number

MOORE TWINING ASSOCIATES, INC.

Test Boring: B-2

Project: Proposed Electric Charging Truck Station with Travel Center

Project Number: H07603.02

Drilled By: James C.

Drill Type: CME 75

Auger Type: 6-5/8-Inch Hollow Stem Auger

Hammer Type: 140 Pound Auto Trip

Logged By: Jordi F.

Date: June 30, 2022

Elevation: N/A

Depth to Groundwater First Encountered During Drilling: N/E

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	Remarks	N-Values blows/ft.	Moisture Content %
0	10/6 16/6 13/6	SP-SM	POORLY GRADED SAND WITH SILT; medium dense, damp, fine to coarse grained, light brown	+3=0.3% Sand=88.4% -200=11.3%	27	0.5
5	11/6 13/6 13/6		Increase in fines content	DD=105.2 pcf	26	6.1
10	3/6 3/6 3/6	ML	SANDY SILT; soft, moist, non plastic, dark brown		6	8.4
15	8/6 14/6 15/6	CL	SANDY LEAN CLAY; very stiff, moist, low to medium plasticity, dark brown		29	9.9
20	11/6 13/6 10/6	SM	SILTY SAND; medium dense, moist, fine to coarse grained, dark brown		23	
25	14/6 21/6 18/6	SP	POORLY GRADE SAND; dense, damp, fine to coarse grained, light brown, trace gravel		39	

Notes:

Figure Number

MOORE TWINING ASSOCIATES, INC.

Test Boring: B-2

Project: Proposed Electric Charging Truck Station with Travel Center

Project Number: H07603.02

Drilled By: James C.

Drill Type: CME 75

Auger Type: 6-5/8-Inch Hollow Stem Auger

Hammer Type: 140 Pound Auto Trip

Logged By: Jordi F.

Date: June 30, 2022

Elevation: N/A

Depth to Groundwater First Encountered During Drilling: N/E

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	Remarks	N-Values blows/ft.	Moisture Content %
30	9/6 10/6 9/6		Medium dense, increase in fines content		19	
35	50/4	SC	CLAYEY SAND; very dense, moist, fine to coarse grained, grayish brown, trace gravel		> 50	
40			Refusal at boring B-2 at 35.5 feet			
45						
50						
55						

Notes:

Figure Number

MOORE TWINING ASSOCIATES, INC.

Test Boring: B-3

Project: Proposed Electric Charging Truck Station with Travel Center

Project Number: H07603.02

Drilled By: James C.

Drill Type: CME 75

Auger Type: 6-5/8-Inch Hollow Stem Auger

Hammer Type: 140 Pound Auto Trip

Logged By: Jordi F.

Date: June 30, 2022

Elevation: N/A

Depth to Groundwater First Encountered During Drilling: N/E

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	Remarks	N-Values blows/ft.	Moisture Content %
0	4/6 7/6 6/6	SP-SM	POORLY GRADED SAND WITH SILT; medium dense, moist, fine to medium grained, light brown	+4=0.2% Sans=91.7% -200=8.1%	13	2.3
5	2/6 9/6 11/6		Increase in fines content	DD=92.5 pcf	20	2.6
10	7/6 6/6 5/6		Dark brown		11	6.4
15	10/6 13/6 12/6		Increase in moisture content		25	
20	8/6 7/6 12/6	CL	SANDY LEAN CLAY; very stiff, moist, low plasticity, dark brown Bottom of boring B-3 at 20 feet		19	
25						

Notes:

Figure Number

MOORE TWINING ASSOCIATES, INC.

Test Boring: B-4

Project: Proposed Electric Charging Truck Station with Travel Center

Project Number: H07603.02

Drilled By: James C.

Drill Type: CME 75

Auger Type: 6-5/8-Inch Hollow Stem Auger

Hammer Type: 140 Pound Auto Trip

Logged By: Jordi F.

Date: June 30, 2022

Elevation: N/A

Depth to Groundwater First Encountered During Drilling: N/E

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	Remarks	N-Values blows/ft.	Moisture Content %
0	6/6 5/6 5/6	SP	POORLY GRADED SAND; loose, damp, fine to coarse grained, light brown, trace gravel	EI=0	10	0.1
5	32/6 25/6 17/6	CL	LEAN CLAY WITH SAND; very stiff, moist, low plasticity, light brown	DD=90.8 pcf +4=0.1% sand=31.9% -200=68.0% LL=40 PI=19	42	5.3
10	4/6 9/6 12/6		LEAN CLAY; stiff, moist, low to medium plasticity, dark brown	DD=98.4 pcf	21	18.1
15	4/6 5/6 7/6	SM	SILTY SAND; medium dense, moist, fine grained, dark brown		12	
20	3/6 5/6 6/6	CL	LEAN CLAY; stiff, moist, low to medium plasticity, dark brown		11	
			Bottom of boring B-4 at 20 feet			
25						

Notes:

Figure Number

MOORE TWINING ASSOCIATES, INC.

Test Boring: B-5

Project: Proposed Electric Charging Truck Station with Travel Center

Project Number: H07603.02

Drilled By: James C.

Logged By: Jordi F.

Date: June 30, 2022

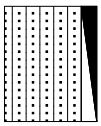
Drill Type:

Elevation: N/A

Auger Type: 6" Diameter Hand Auger

Hammer Type:

Depth to Groundwater First Encountered During Drilling: N/E

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	Remarks	N-Values blows/ft.	Moisture Content %
0		SM	SILTY SAND; damp, fine to medium grained, light brown, some gravel	+4=3.7% Sand=85.6% -200=13.7		0.6
			Bottom of boring B-5 at 3 feet			
5						
10						
15						
20						
25						

Notes:

Figure Number

KEY TO SYMBOLS

Symbol	Description
Strata symbols	
	Silty sand
	Silt
	Lean clay
	Poorly graded sand with silt
	Poorly graded sand
	Clayey sand
Misc. Symbols	
	Drill rejection

Symbol	Description
	Boring continues
Soil Samplers	
	Standard penetration test
	California Modified split barrel ring sampler
	Bulk/Grab sample

Notes:

1. Exploratory borings were drilled on June 30, 2022 using a CME 75 drill rig equipped with 6-5/8 inch outside diameter hollow stem augers.

2. Groundwater was not encountered.

3. Boring locations were measured or paced from existing features.

4. These logs are subject to the limitations, conclusions, and recommendations in this report.

5. The "N-Value" reported for the California Modified Split Barrel Sampler is the uncorrected field blow count. This value should not be interpreted as an SPT equivalent N-Value.

6. Results of tests conducted on samples recovered are reported on the logs.

DD =	Natural dry density (pcf)	LL =	Liquid Limit (%)
+4 =	Percent retained on #4 sieve (%)	PI =	Plasticity Index (%)
-200 =	Percent passing #200 sieve (%)	pH =	Soil pH
SS =	Soluble sulfates (%)	Cl =	Soluble chlorides (%)
SR =	Soil Resistivity (ohms-cm)	AMSL =	Above Mean Sea Level
ø =	Angle of Internal Friction (degrees)	c =	Cohesion (psf)
pcf =	pounds per cubic foot	O.D. =	Outside Diameter
N/A =	Not Applicable	N/E =	Not Encountered
EI =	Expansion Index		

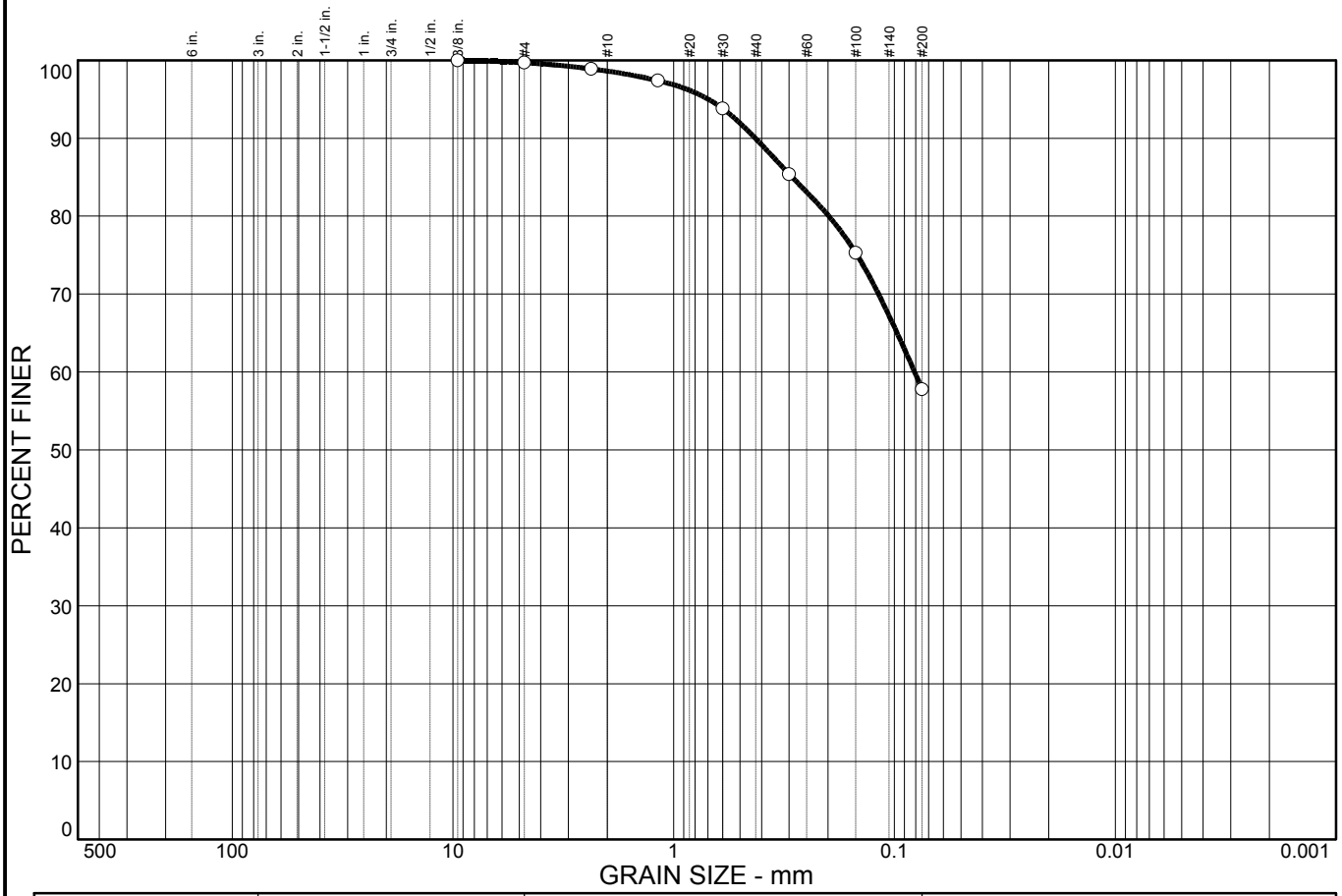
APPENDIX C

RESULTS OF LABORATORY TESTS

This appendix contains the individual results of the following tests. The results of the moisture content and dry density tests are included on the test pit logs in Appendix B. These data, along with the field observations, were used to prepare the final test boring logs in Appendix B.

These Included:	To Determine:
Moisture Content (ASTM D2216)	Moisture contents representative of field conditions at the time the sample was taken.
Dry Density (ASTM D2937)	Dry unit weight of sample representative of in-situ or in-place undisturbed condition.
Grain-Size Distribution (ASTM D422)	Size and distribution of soil particles, i.e., sand, gravel and fines (silt and clay).
Atterberg Limits (ASTM D4318)	Determines the moisture contents where the soil behaves as a viscous material (liquid limit) and the moisture content at which the soil reaches a plastic state (plastic limit)
Consolidation (ASTM D2435)	The amount and rate at which a soil sample compresses when loaded, and the influence of saturation on its behavior.
Moisture-Density Relationship (ASTM D1557)	The optimum (best) moisture content for compacting soil and the maximum dry unit weight (density) for a given compactive effort.
Direct Shear (ASTM D3080)	Soil shearing strength under varying loads and/or moisture conditions.
R-Value (ASTM D2844)	The capacity of a subgrade or subbase to support a pavement section designed to carry a specified traffic load.
Expansion Index (ASTM D4829)	Swell potential of soil with increases in moisture content.
Resistivity (ASTM G187)	The potential of the soil to corrode metal.
Chloride Content (Cal Test 422)	Percentage of soluble chloride in soil. Used to evaluate the potential attack on encased reinforcing steel.
Sulfate Content (Cal Test 417)	Percentage of water-soluble sulfate as (SO4) in soil samples. Used as an indication of the relative degree of sulfate attack on concrete and for selecting the cement type.
pH (Cal Test 643)	The acidity or alkalinity of subgrade material.

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.3	1.1	8.7	32.1	57.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8 in.	100.0		
#4	99.7		
#8	98.9		
#16	97.4		
#30	93.8		
#50	85.4		
#100	75.3		
#200	57.8		

* (no specification provided)

Material Description

Sandy silt

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{85}= 0.291 D_{60}= 0.0811 D_{50}=
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= ML AASHTO=

Remarks

Sample No.: B-1 **Source of Sample:** **Date:** 6/30/22
Location: **Elev./Depth:** 3.5-5'

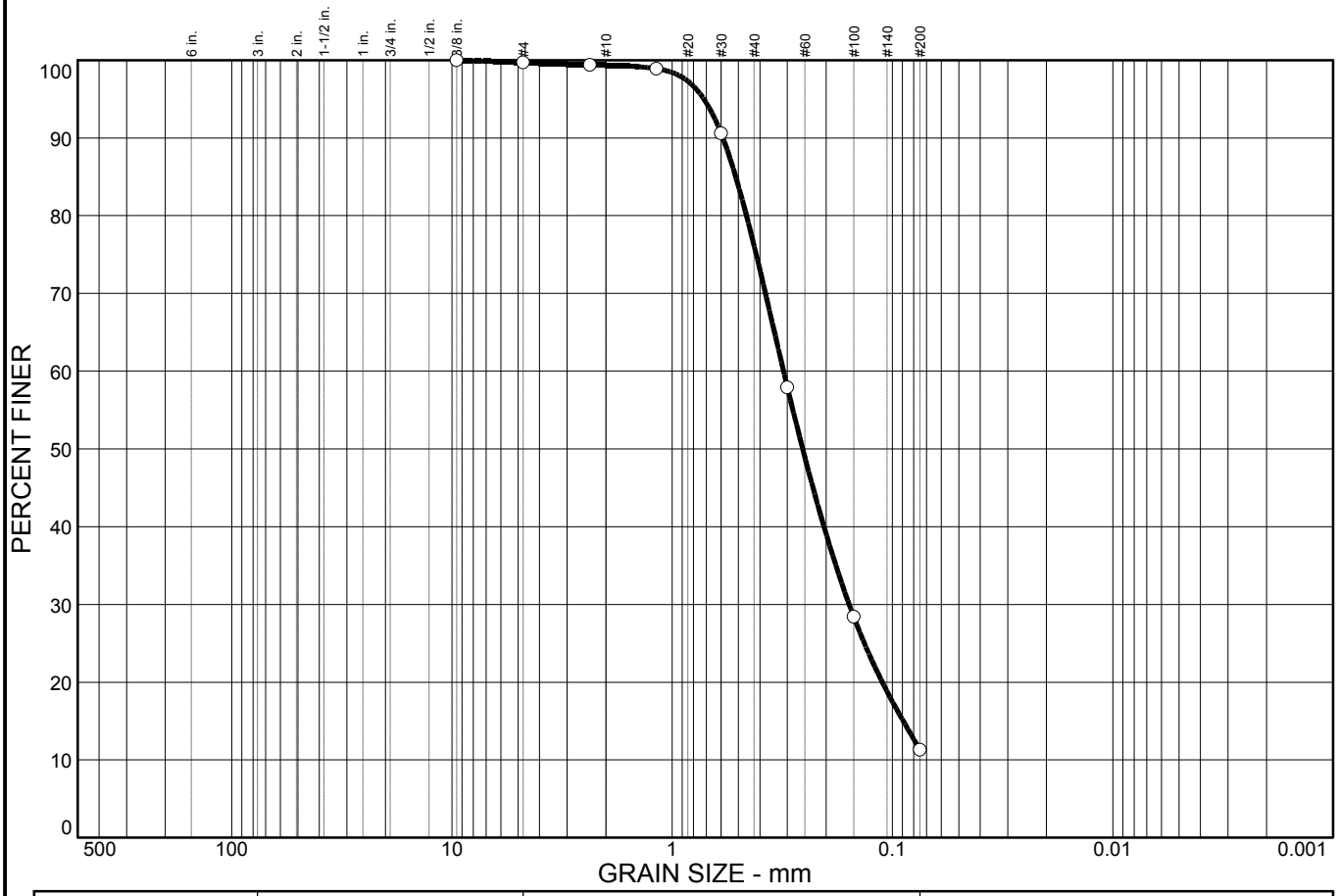
Moore Twining Associates, Inc.

Fresno, CA

Client:
Project: Electric Charging Station and Travel Center

Project No: H07603.02 **Figure**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.3	0.3	23.3	64.8	11.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8 in.	100.0		
#4	99.7		
#8	99.4		
#16	98.9		
#30	90.6		
#50	57.9		
#100	28.4		
#200	11.3		

* (no specification provided)

Material Description

Poorly graded sand with silt

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.515 D_{60}= 0.312 D_{50}= 0.256
D_{30}= 0.157 D_{15}= 0.0894 D_{10}=
C_u= C_c=

Classification

USCS= SP-SM AASHTO=

Remarks

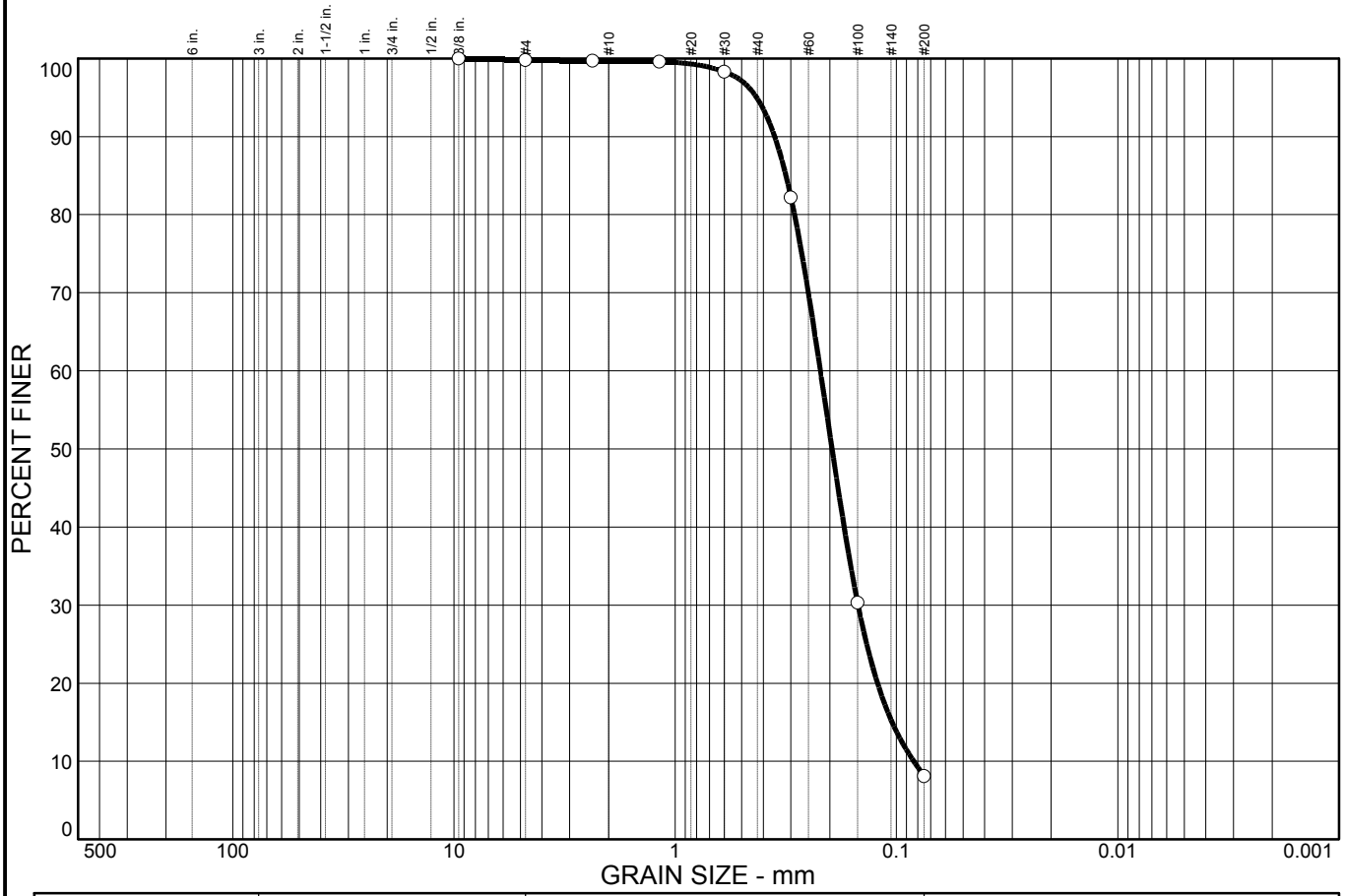
Sample No.: B-2 **Source of Sample:** **Date:** 6/30/22
Location: **Elev./Depth:** 1-2.5'

Moore Twining Associates, Inc.

Fresno, CA

Client:
Project: Electric Charging Station and Travel Center
Project No: H07603.02 **Figure**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.2	0.1	4.9	86.7	8.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8 in.	100.0		
#4	99.8		
#8	99.7		
#16	99.6		
#30	98.3		
#50	82.2		
#100	30.3		
#200	8.1		

* (no specification provided)

Material Description

Poorly graded sand with silt

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.316 D_{60}= 0.221 D_{50}= 0.196
D_{30}= 0.149 D_{15}= 0.105 D_{10}= 0.0836
C_u= 2.64 C_c= 1.21

Classification

USCS= SP-SM AASHTO=

Remarks

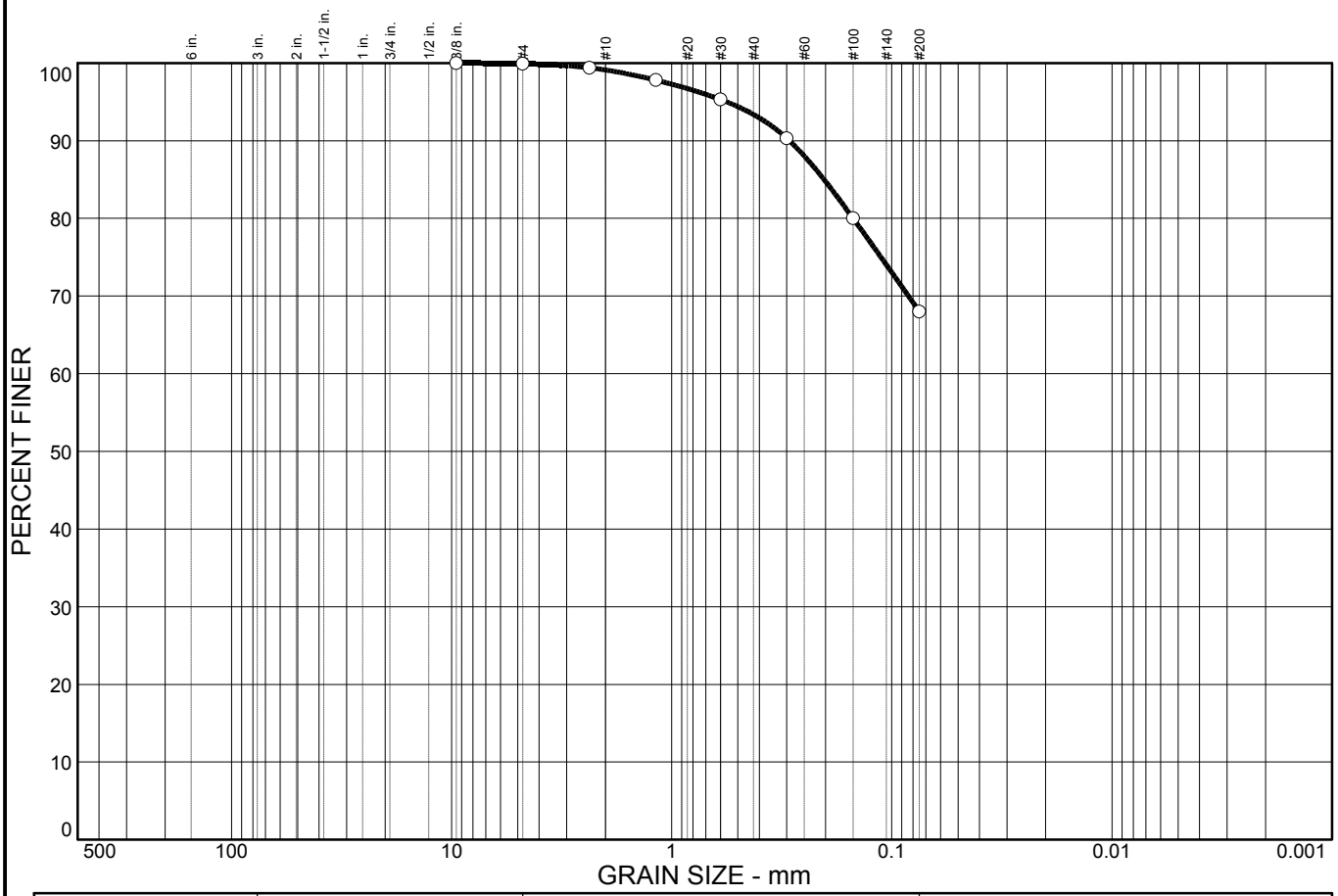
Sample No.: B-3 **Source of Sample:** **Date:** 6/30/22
Location: **Elev./Depth:** 1.5-3'

Moore Twining Associates, Inc.

Fresno, CA

Client:
Project: Electric Charging Station and Travel Center
Project No: H07603.02 **Figure**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.1	0.8	5.7	25.4	68.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8 in.	100.0		
#4	99.9		
#8	99.4		
#16	97.8		
#30	95.3		
#50	90.3		
#100	80.0		
#200	68.0		

* (no specification provided)

Material Description

Sandy lean clay

Atterberg Limits

PL= 21 LL= 40 PI= 19

Coefficients

D_{85}= 0.203 D_{60}= D_{50}=
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL AASHTO=

Remarks

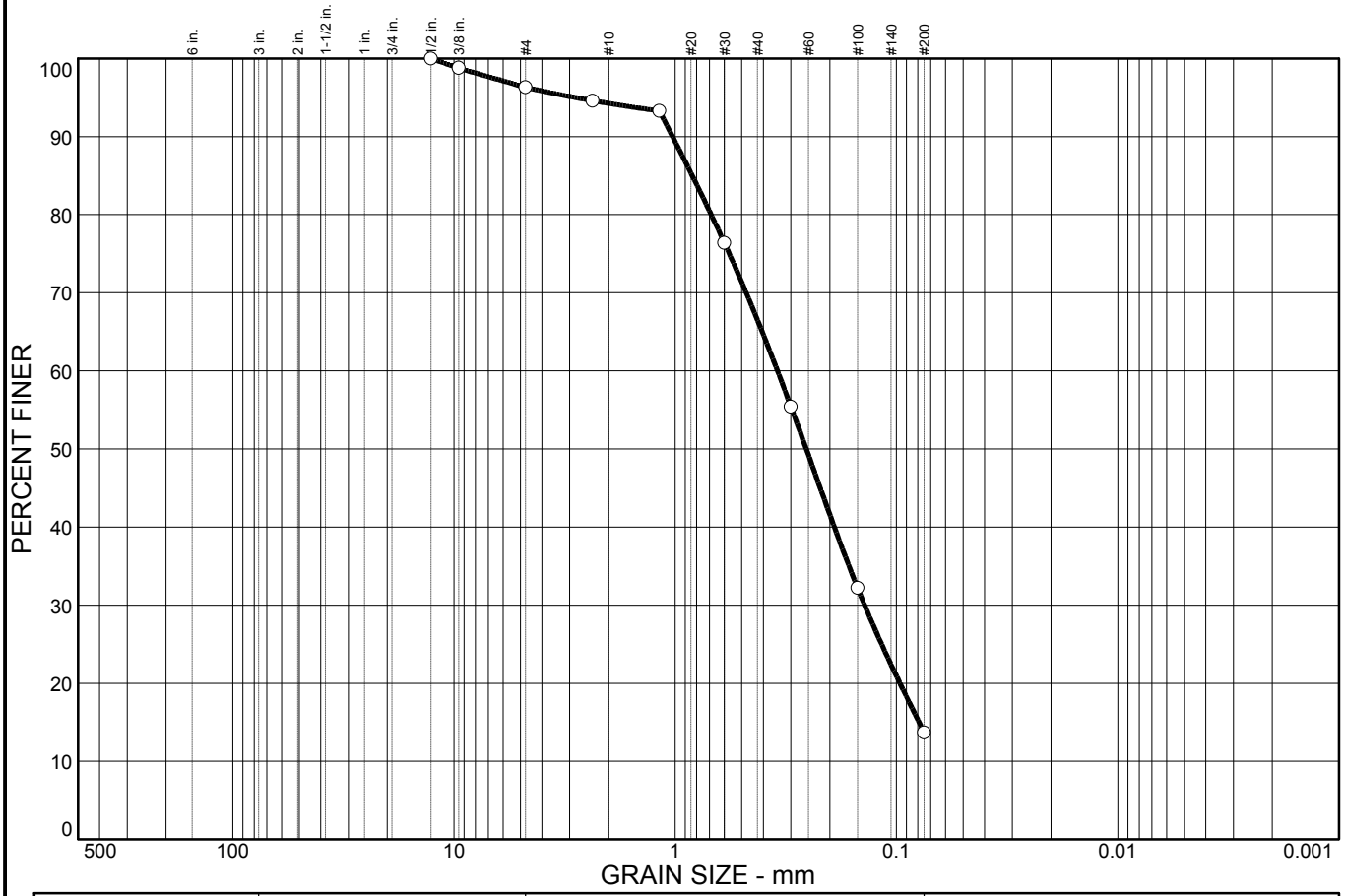
Sample No.: B-4 **Source of Sample:** **Date:** 6/30/22
Location: **Elev./Depth:** 3.5-5'

Moore Twining Associates, Inc.

Fresno, CA

Client:
Project: Electric Charging Station and Travel Center
Project No: H07603.02 **Figure**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	3.7	2.0	27.8	52.8	13.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1/2 in.	100.0		
3/8 in.	98.8		
#4	96.3		
#8	94.6		
#16	93.3		
#30	76.4		
#50	55.4		
#100	32.2		
#200	13.7		

* (no specification provided)

Material Description

Silty sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.838 D_{60}= 0.345 D_{50}= 0.256
D_{30}= 0.139 D_{15}= 0.0790 D_{10}=
C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

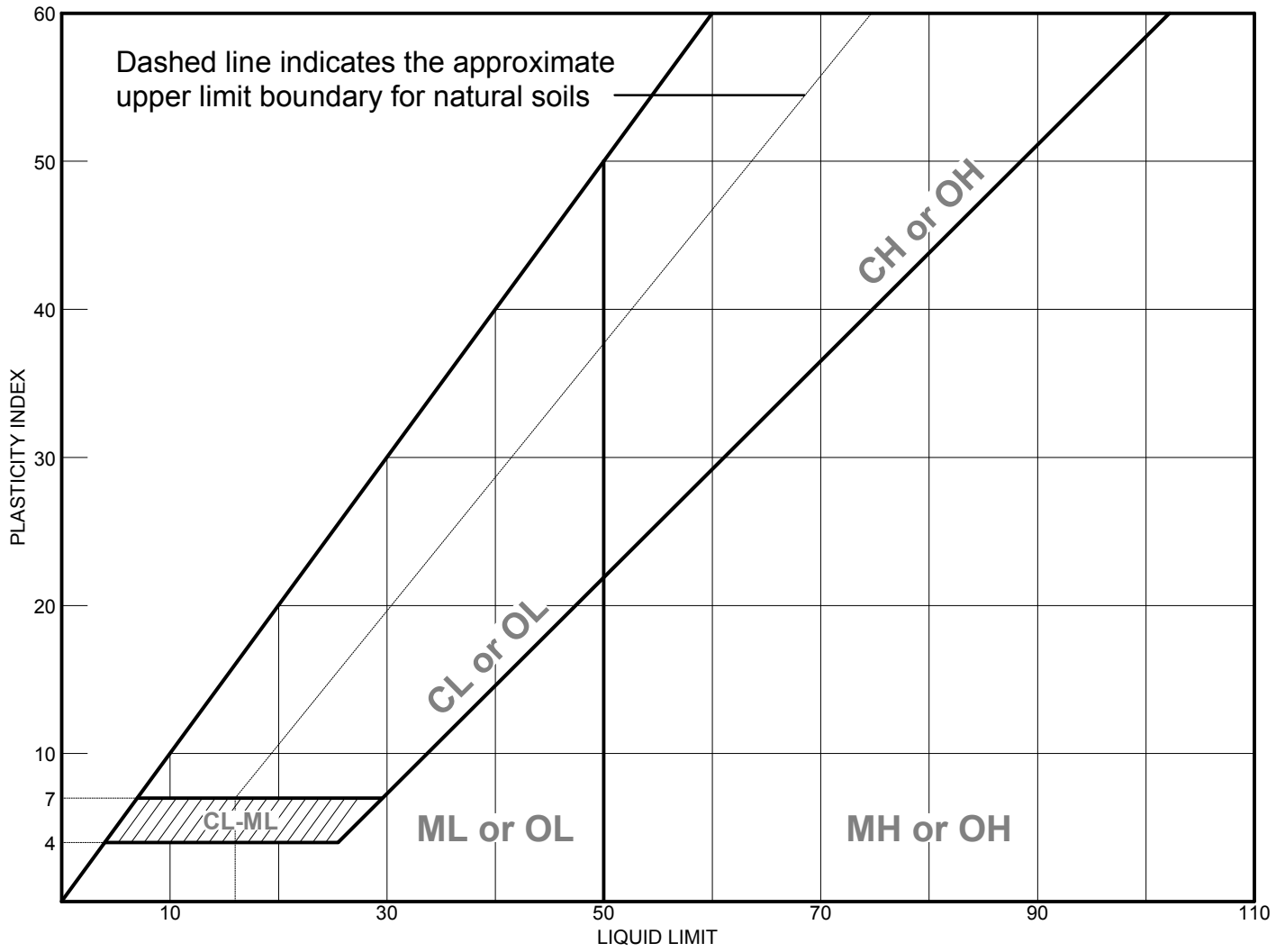
Sample No.: B-5 **Source of Sample:** **Date:** 6/30/22
Location: **Elev./Depth:** 0-3'

Moore Twining Associates, Inc.

Fresno, CA

Client:
Project: Electric Charging Station and Travel Center
Project No: H07603.02 **Figure**

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Sandy silt	NV	NP	NP	89.9	57.8	ML

Project No. H07603.02 **Client:**

Project: Electric Charging Station and Travel Center

● **Source:** **Sample No.:** B-1 **Elev./Depth:** 3.5-5'

Remarks:

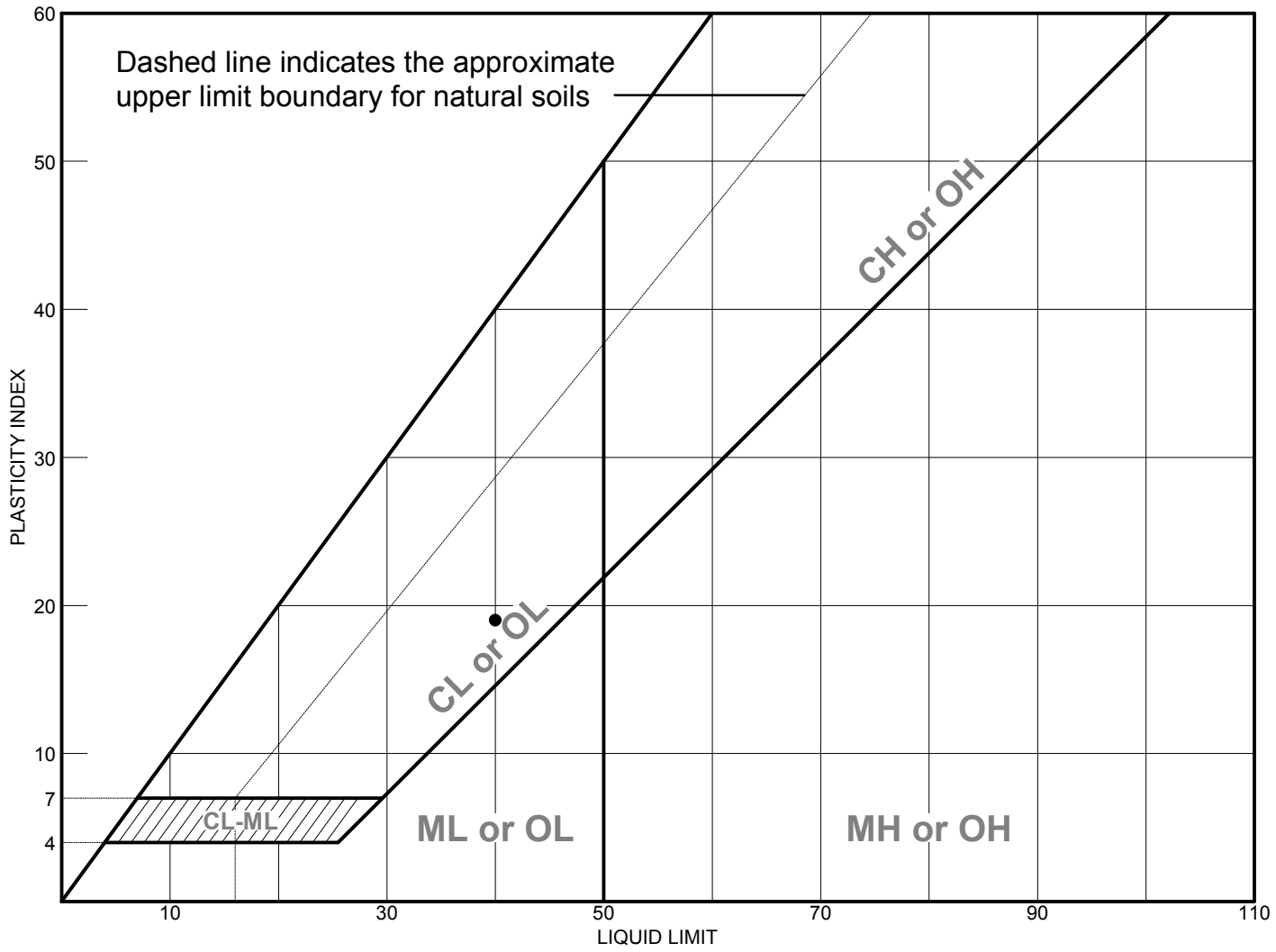
●

Moore Twining Associates, Inc.

Fresno, CA

Figure

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Sandy lean clay	40	21	19	93.4	68.0	CL

Project No. H07603.02 **Client:**

Project: Electric Charging Station and Travel Center

● **Source:** **Sample No.:** B-4 **Elev./Depth:** 3.5-5'

Remarks:

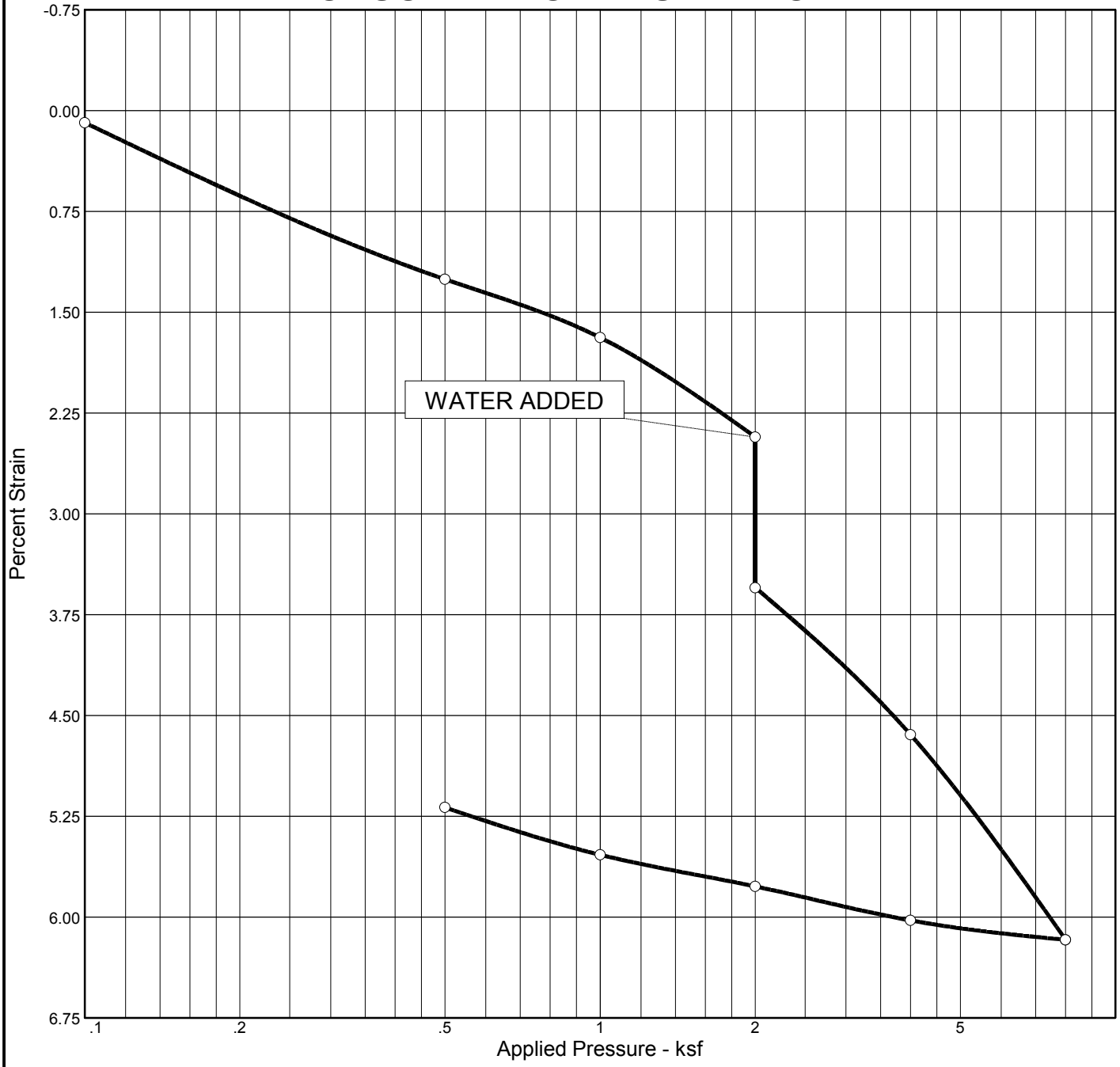
●

Moore Twining Associates, Inc.

Fresno, CA

Figure

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (ksf)	P_c (ksf)	C_c	C_s	Swell Press. (ksf)	Clpse. %	e_o
Sat.	Moist.											
8.3 %	2.6 %	91.0			2.65		1.12	0.09	0.01		1.2	0.818

MATERIAL DESCRIPTION	USCS	AASHTO
Silty sand		

Project No. H07603.02 **Client:**

Project: Electric Charging Station and Travel Center

Source: **Sample No.:** B-3 **Elev./Depth:** 5-6.5'

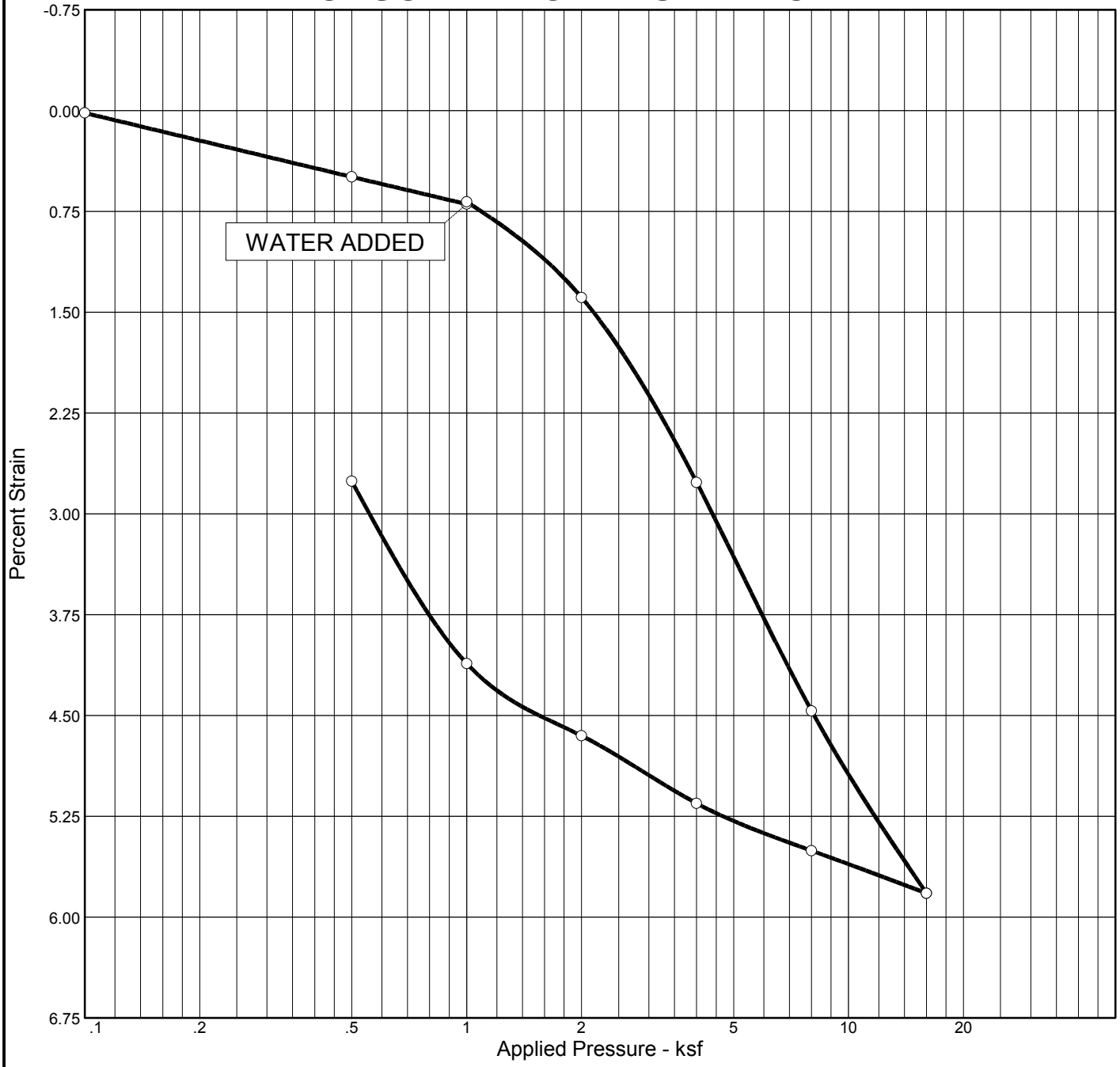
Moore Twining Associates, Inc.

Fresno, CA

Remarks:

Figure

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (ksf)	P_c (ksf)	C_c	C_s	Swell Press. (ksf)	Swell %	e_o
Sat.	Moist.											
24.1 %	6.7 %	95.4	40	19	2.65		1.35	0.08	0.04	1.02		0.734

MATERIAL DESCRIPTION	USCS	AASHTO
Sandy lean clay	CL	

Project No. H07603.02 **Client:**

Project: Electric Charging Station and Travel Center

Source: **Sample No.:** B-4 **Elev./Depth:** 3.5-5'

Moore Twining Associates, Inc.

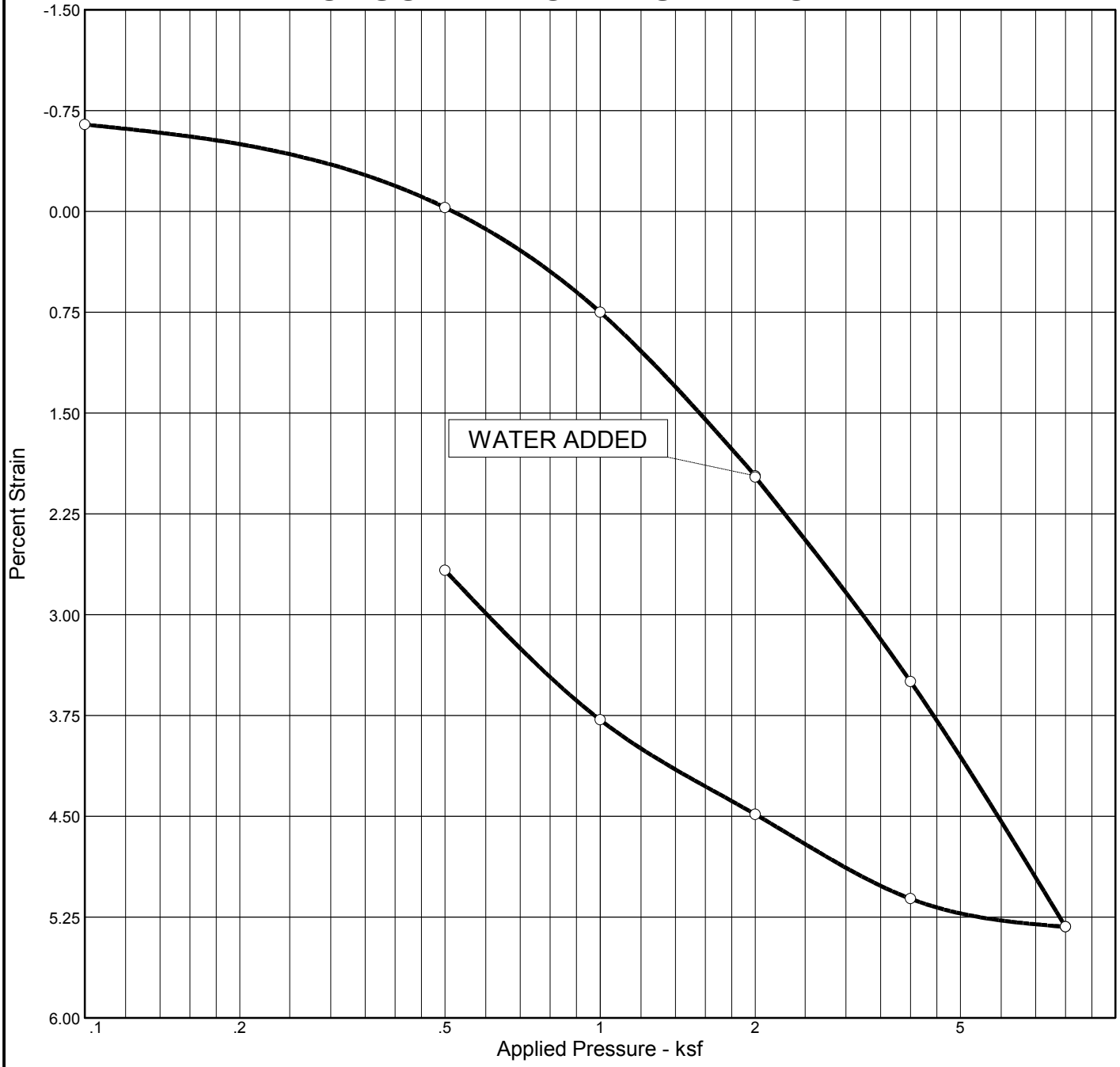
Fresno, CA

Remarks:

Sample strated to extrude @ 2KSF

Figure

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (ksf)	P_c (ksf)	C_c	C_s	Swell Press. (ksf)	Swell %	e_o
Sat.	Moist.											
94.4 %	20.8 %	104.4			2.65		1.46	0.10	0.03			0.584

MATERIAL DESCRIPTION	USCS	AASHTO
Sandy lean clay		

Project No. H07603.02 **Client:**

Project: Electric Charging Station and Travel Center

Source: **Sample No.:** B-4 **Elev./Depth:** 8.5-10'

Moore Twining Associates, Inc.

Fresno, CA

Remarks:

Figure

MOORE TWINING ASSOCIATES, INC.

EXPANSION INDEX TEST, ASTM D4829

MTA PROJECT NAME:	Proposed Charging Station and Travel Center	REPORT DATE:	7/18/2022
		TEST DATE:	7/15/2022
MTA PROJECT NO.:	H07603.02		
SAMPLE I.D.:	B-4 @ 0-5'		
SAMPLED BY:	JF		
SAMPLE DATE:	6/30/2022	TESTED BY:	AL
MATERIALS DESCRIPTION:	Sand with silt		
% PASSING # 4 SIEVE	100		

Initial Moisture Determination:		Final Moisture Determination:	
Pan + Wet Soil Wt., gm	250.0	Wet Soil Wt., lbs	0.9219
Pan + Dry Soil Wt., gm	227.2	Dry Soil Wt., lbs	0.7916
Pan Wt., gm	0.0		
Initial % Moisture Content	10.0	Final % Moisture Content	16.5

Initial Expansion Data:		**Final Expansion Data:**	
Ring + Sample Wt., lbs	0.8710	Ring + Sample Wt., lbs	0.9219
Ring Wt., lbs	0.0000	Ring Wt., lbs	0.0000
Remolded Wt., lbs	0.8710	Remolded Wt., lbs	0.9219
Remolded Wet Density, pcf	119.8	Remolded Wet Density, pcf	126.8
Remolded Dry Density, pcf	108.8	Remolded Dry Density, pcf	108.9

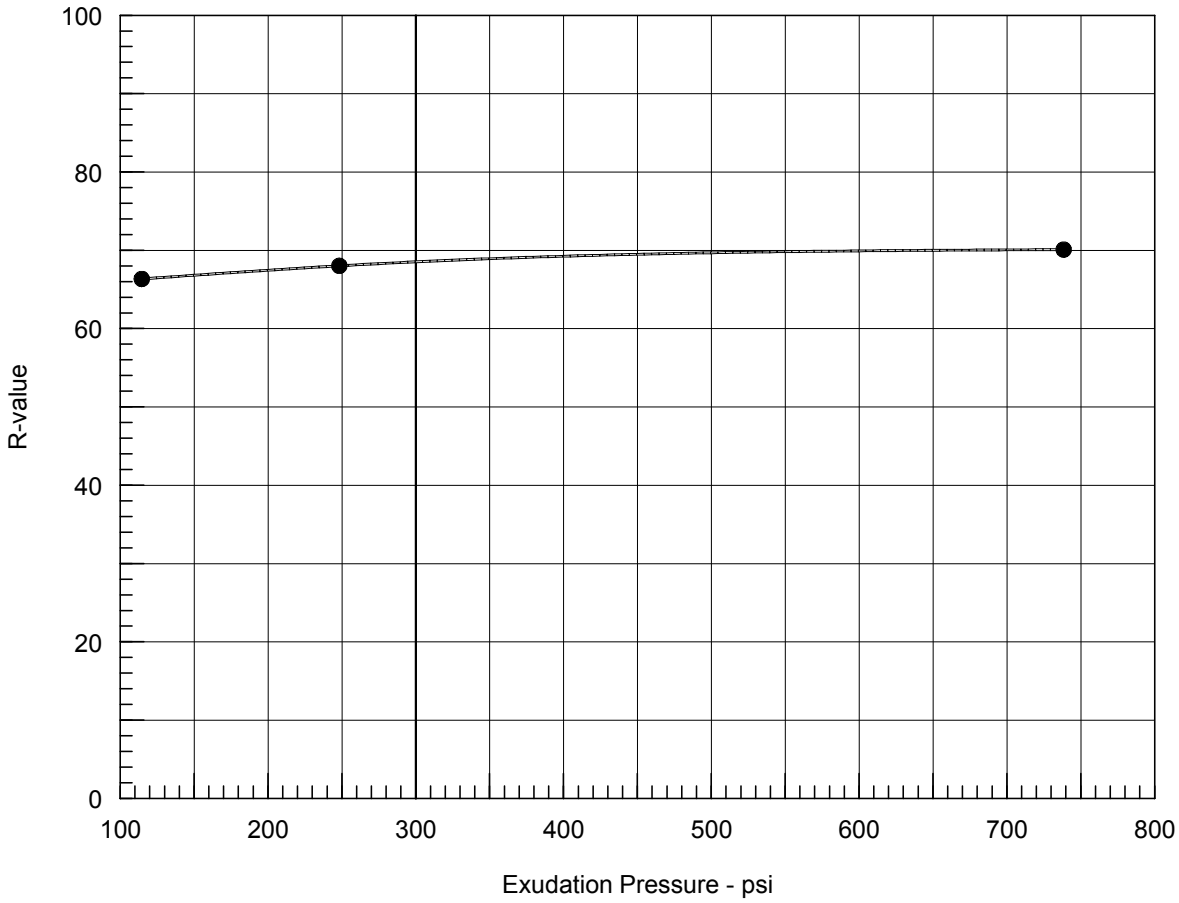
Expansion Data:		Initial Volume	Final Volume
		0.00727222	0.007269
Initial Gage Reading, in:	0.0561		
Final Gage Reading, in:	0.0556		
Expansion, in:	-0.0005		
Expansion Index	0	**Comments:**	**Ver Low Expansion Potential**

Classification of Expansive Soils. (Table No.1 From ASTM D4829)

Expansion Index	Potential Expansion
0-20	Very Low
21-50	Low
51-90	Medium
91-130	High
>130	Very High

PH: 559.268.7021
FX: 559.268.7126
2527 Fresno Street
Fresno, CA 93721

R-VALUE TEST REPORT



Resistance R-Value and Expansion Pressure - ASTM D 2844

No.	Compact. Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	350	106.7	13.4	0.00	26	2.47	248	68	68
2	350	105.4	12.6	0.00	26	2.48	738	70	70
3	350	106.4	14.0	0.00	26	2.47	115	66	66

Test Results	Material Description
R-value at 300 psi exudation pressure = 69	Sandy silt

Project No.: H07603.02
Project: Electric Charging Station and Travel Center
Sample Number: B-1 **Depth:** 0-5'
Date: 7/19/2022

Tested by: MP
Checked by: MS
Remarks:

R-VALUE TEST REPORT

Moore Twining Associates, Inc.

Figure NA

MOORE TWINING ASSOCIATES, INC.

Project Name:	Proposed Charging Station and Travel Center	Report Date:	7/18/2022
		Sample Date:	6/30/2022
Project Number:	H07603.02		
		Sampled By:	JF
Subject:	Minimum Resistivity, ASTM G187	Tested By:	AL
Material Description:	Sandy silt	Test Date:	7/15/2022
Location:	B-1 @ 0-5'		

Laboratory Test Results, Minimum Resistivity - ASTM G187

Total Water Added, mls	Resistivity, Ohm-cm
100 mls	5,500
125 mls	4,200
150 mls	3,300
175 mls	3,000
200 mls	2,900
225 mls	2,800
250 mls	2,700
275 mls	2,700
300 mls	2,800

Remarks: Min. Resistivity is 2,700 Ohm-cm

www.mooretwining.com
PH: 559.268.7021
FX: 559.268.7126
2527 Fresno Street
Fresno, CA 93721

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

July 19, 2022

Work Order #: **IG07028**

Alan Villegas
MTA Geotechnical Division
2527 Fresno Street
Fresno, CA 93721

RE: Electric Charging Station & Travel Center

Enclosed are the analytical results for samples received by our laboratory on **07/07/22** . For your reference, these analyses have been assigned laboratory work order number **IG07028**.

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Lauren Cox
Client Services Representative

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

MTA Geotechnical Division 2527 Fresno Street Fresno CA, 93721	**Project:** Electric Charging Station & Travel Center **Project Number:** H07603.02 **Project Manager:** Alan Villegas	**Reported:** 07/19/2022

Analytical Report for the Following Samples

Sample ID	Notes	Laboratory ID	Matrix	Date Sampled	Date Received
B1 @0-5'		IG07028-01	Soil	06/30/22 00:00	07/07/22 13:10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

MTA Geotechnical Division 2527 Fresno Street Fresno CA, 93721	**Project:** Electric Charging Station & Travel Center **Project Number:** H07603.02 **Project Manager:** Alan Villegas	**Reported:** 07/19/2022

B1 @0-5'

IG07028-01 (Soil) Sampled: 06/30/22 00:00

Analyte	Flag	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics									
Chloride		**76**	6.0	mg/kg	3	B2G1117	07/11/22	07/12/22	Cal Test 422
Chloride		**0.0076**	0.00060	% by Weight	3	[CALC]	07/12/22	07/12/22	[CALC]
Sulfate as SO4		**0.0047**	0.00060	% by Weight	3	[CALC]	07/12/22	07/12/22	[CALC]
pH		**8.0**	0.10	pH Units	1	B2G1117	07/11/22	07/12/22	Cal Test 643
Sulfate as SO4		**47**	6.0	mg/kg	3	B2G1117	07/11/22	07/12/22	Cal Test 417

Notes and Definitions

µg/L	micrograms per liter (parts per billion concentration units)
mg/L	milligrams per liter (parts per million concentration units)
mg/kg	milligrams per kilogram (parts per million concentration units)
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

Analysis of pH, filtration, and residual chlorine is to take place immediately after sampling in the field.
If the test was performed in the laboratory, the hold time was exceeded. **(for aqueous matrices only)**

MOORE TWINING

CHAIN OF CUSTODY / ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

WORK ORDER #: I607028
PAGE 1 **OF** 2

REPORT TO:
ATTENTION: Alan Villegas
COMPANY NAME: Geotechnical Division
ADDRESS:
PHONE:
EMAIL / FAX:

☐ **INVOICE TO:**
ATTENTION:
COMPANY NAME:
ADDRESS:
PHONE:
EMAIL / FAX:

☐ **REPORT COPY TO:**

REPORTING:
- ☒ STANDARD FORMAT ☐ PDF
- ☐ EDT (SWRCB) ☐ EXCEL
- ☐ GEOTRACKER/COELT (LUFT) GLOBAL ID:
- ☐ COUNTY ENVIRONMENTAL HEALTH:
- ☐ STATE WATER RESOURCES CONTROL BOARD:
- ☐ OTHER:

SAMPLE INFORMATION
SAMPLED BY (PRINT): Jordi F.
SIGNATURE:
- ☐ PUBLIC SYSTEM ☒ ROUTINE
- ☐ PRIVATE WELL ☐ REPEAT
- ☐ OTHER ☐ REPLACEMENT

TURN AROUND TIME
- ☒ STANDARD
- ☐ RUSH, DUE ON:

SAMPLE TYPES
SOLID:
- BS - BIOSOLID
- CR - CERAMIC
- SL - SOIL/SOLID

LIQUID:
- DW - DRINKING WATER
- GW - GROUND WATER
- OL - OIL
- SF - SURFACE WATER
- ST - STORM WATER
- WW - WASTEWATER

PROJECT INFORMATION
CONTRACT / P.O. NO.:
PROJECT: Electric Charging Station and Travel Center
PROJECT NUMBER: H07603.02
PROJECT MANAGER: Alan Villegas

ANALYSIS REQUESTED

LAB USE

NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLES(S) DAMAGED
☐ ON ICE ☒ AMBIENT TEMP. ☐ INCORRECT PRESERVATION

CLIENT SAMPLE ID	DATE	TIME	TYPE	pH	Chloride	Sulfate	STATION CODE
1 B1@0-5'	6/30/22	NA	SL	x	x	x	

COMMENTS / ADDITIONAL INSTRUCTIONS:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
Adrian Lopez	MTA/Mat.	7/7/22	1310		MTA

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in MTA's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody and agrees to MTA's terms and conditions for laboratory services unless contractually bound otherwise. MTA's current terms and conditions can be obtained by contacting our accounting department at (559) 268-7021.

FL-SC-0005-04 A

Sample Integrity

Page 2 of 2

Moore Twining Associates
WO# 1GD7028

MTA Bottles: (Yes) or No

COC Info

Was temperature within range? Chemistry ≤6°C Micro <10°C Temp_____°C	Yes No (N/A)	Did all bottle labels agree with COC?	(Yes) No N/A
If samples were taken today, is there evidence that chilling has begun? Recvd 21.0°C	Yes (No) N/A	Was a sufficient amount of sample received?	(Yes) No N/A
Did all bottles arrive unbroken and intact?	(Yes) No N/A	Were correct containers and preservatives received for the tests requested?	(Yes) No N/A
Do samples have a hold time <72 hours?	Yes (No) N/A		

	Were there bubbles in VOA vials? (**Volatiles Only**)	Yes No (N/A)
	Was PM notified of discrepancies? PM: By/Time:	Yes (No) N/A

Bottles Received

125ml (A) 250ml (B) 1Liter (C) 40ml VOA (V)	1																		
Bacti $Na_2S_2O_3$																			
None (P)																			
None (AG)																			
None (CG) 500ml																			
Cr6 Buffer (P) Borate Carbonate Buffer																			
Dissolved Oxygen 300ml (P)																			
HNO_3 (P)																			
HCl (AG)																			
H_2SO_4 (P)																			
H_3PO_4 (AG)																			
NaOH (P)																			
NaOH + ZnAc (P)																			
$Na_2S_2O_3$ (AG)																			
$Na_2S_2O_3$ (CG)																			
$Na_2S_2O_3$ 250ml (Brown P) 549																			
Thio/K Citrate																			
NH_4Cl (AG) 552																			
Other:																			
Client Own																			
Low Level Hg/Metals Double Bag																			
Plastic Bag	1																		
Glass Jar: 125 / 250 / 500																			
Soil Tube: Brass / Steel / Plastic																			
5g Encore																			
1G Cubitaner																			

Filter or Split

	Container	Preservative	Date/Time/Initials
S P F			
S P F			
S P F			
S P F			
S P F			

Labeled by: ____ @ _____

Labels checked by: ____ @ 1515

FL-SC-0003-07

MOORE TWINING ASSOCIATES, INC.

August 30, 2024 H07603.02

Mr. Brian Vail
River West Investments, Inc.
2410 Fair Oaks Boulevard, Suite 110
Sacramento, CA 95825

Subject: Response to San Bernardino County Review
Proposed Electric Charging Truck Station with Travel Center
APNs 0497-142-(03, 04, 14, and 15)
Southeast of Lenwood Road and Agate Road
Barstow, San Bernardino County, California

References: San Bernardino County Land Use Services Geotechnical Report Review Sheet, dated May 23, 2024, prepared by San Bernardino County, Land Use Services Department, Geology Division

Preliminary Geotechnical Engineering Investigation, Proposed Electric Charging Truck Station with Travel Center, APNs 0497-142-(03, 04, 14, and 15), Southeast of Lenwood Road and Agate Road, Barstow, San Bernardino County, California, dated July 29, 2022, prepared by Moore Twining Associates, Inc., Project No. H07603.02

Dear Mr. Vail:

This letter has been prepared to respond to the comments included on the Geotechnical Report Review Sheet, dated May 23, 2024, prepared by San Bernardino County, Land Use Services Department, Geology Division (County). The County comments are restated below, followed by our responses.

Comment No. 1: Section 3.4 of the report describes the proposed development within the parcels, however, the plans provided as part of PROJ-2023-00108 do not match the described development within the Geotechnical Report. A revision to section 3.4 of the Geotechnical Report is required to match the proposed project PROJ-2023-00108.

Response: The referenced Preliminary Geotechnical Engineering Investigation report, dated July 29, 2022, was prepared before a site plan had been developed. Note that our referenced July 29, 2022 report is intended to evaluate the geotechnical engineering feasibility for the proposed site development and it not intended for design. The report indicates and that when the site plan is

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Fresno, CA 93721

developed identifying the locations and type of structures planned for the project, this information should be provided to Moore Twining. It is our understanding that the current site plan is still somewhat preliminary relative to the locations of the improvements. However, the improvements that are shown on the various site plans recently provided (Preliminary Master Plan, dated April 10, 2024 and prepared by RMW Architecture Interiors), including the types of structures and site use, were reviewed and the referenced July 29, 2022 Preliminary Geotechnical Engineering Investigation report remains applicable for the intended purpose. Considering the precise location of each of the improvements have not been finalized, based on our discussions with Mr. Brian Vail with River West Investments, Inc., the design level geotechnical engineering investigation that is recommended in the July 29, 2022 report should be conducted pursuant to San Bernardino County standards prior to the approval of plans for the construction of any site improvements or structures within the area. When the design level geotechnical engineering investigation report is issued, the Anticipated Construction description in the report will be updated to reflect the improvements shown on the final site plan.

Comment No. 2: Drawing No. 2 of the Geotechnical Report should be revised to show the proposed structure foundations of PROJ-2023-00108 with the boring locations added to relation to proposed foundations.

Response: As noted in Response to Comment No. 1, a design level investigation will be conducted as indicated in the Response to Comment No. 1. As requested, the borings from the preliminary geotechnical engineering investigation have been shown on one of the site plans provided.

Comment No. 3 Section 5.8 of the Geotechnical Report indicates that the project site is located in the near vicinity of several active faults. Drawing No. 3 depicts two mapped segments of the Lenwood-Lockhart Fault Zone trending directly toward the project site. An evaluation of potentially active faults within the subject site per County Development Code chapter 82.15 is required.

Response: Moore Twining Associates, Inc. recently issued a report entitled, "Geologic/Seismic Hazards Report, Proposed Electric Charging Truck Station with Travel Center, APNs 0497-142-(03, 04, 14, and 15), Southeast

of Lenwood Road and Agate Road, Barstow, San Bernardino County, California," dated June 25, 2024. In this report, we noted, "The project site is not located in an Alquist-Priolo Earthquake Fault Zone mapped by the California Geological Survey, nor a San Bernardino County designated fault zone (based on the San Bernardino County Land Use Plan, Geologic Hazard Overlays)." However, we also noted in our June 25, 2024 Geologic/Seismic Hazards Report, "The Fault Activity Map of California identifies an active, creeping segment of the Lenwood-Lockhart fault zone (Lenwood section) mapped just east of the southern portion of the site. The nearest active fault with traditional surface rupture is a section of the Lenwood-Lockhart fault zone further southeast of the site, about 2.1 miles from the site. A concealed, potentially active fault (Lockhart section) associated with the Lenwood-Lockhart fault zone is mapped about ¾ mile to the northwest. The approximate locations of these fault sections are shown on Drawing No. 3 in Appendix A of our June 25, 2024 Geologic/Seismic Hazards Report. Based on the documents reviewed, since active faults are not mapped within the site, the potential for surface rupture due to a known active fault appears to be low. However, potential impacts from the adjacent Lenwood fault section are recommended to be evaluated if a future structure is planned within a hypothetical northwesterly extension of this fault section which is shown east of the site." Thus, future subsurface fault investigation will be needed as noted in our June 25, 2024 Geologic/Seismic Hazards Report.

Comment No. 4: Section 5.9 of the Geotechnical Report shall be updated to reflect to most current CBC design specifications.

Response: The report includes reference to the 2019 California Building Code (CBC). The references in the report to the 2019 CBC may be replaced with the 2022 CBC (values in Section 6.6 remain unchanged). When the design level geotechnical engineering investigation is conducted based on the finalized site plan, the future geotechnical report will reflect the most current CBC seismic factors to be used for design.

Comment No. 5: Section 5.10 of the Geotechnical Report states that "Based on the depth to groundwater, liquefaction is not considered a potential impact to the site." However, no data concerning existing groundwater elevations within or near the project site were provided to support that conclusion. An assessment of

current groundwater elevations within or near the project site is required.

Response: Refer to Section 5.4 Groundwater Conditions of the referenced July 29, 2022 Preliminary Geotechnical Engineering Investigation report. Considering the groundwater data reviewed, Moore Twining concluded that liquefaction was not considered a potential impact to the site.

CLOSING

Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally-accepted engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied.

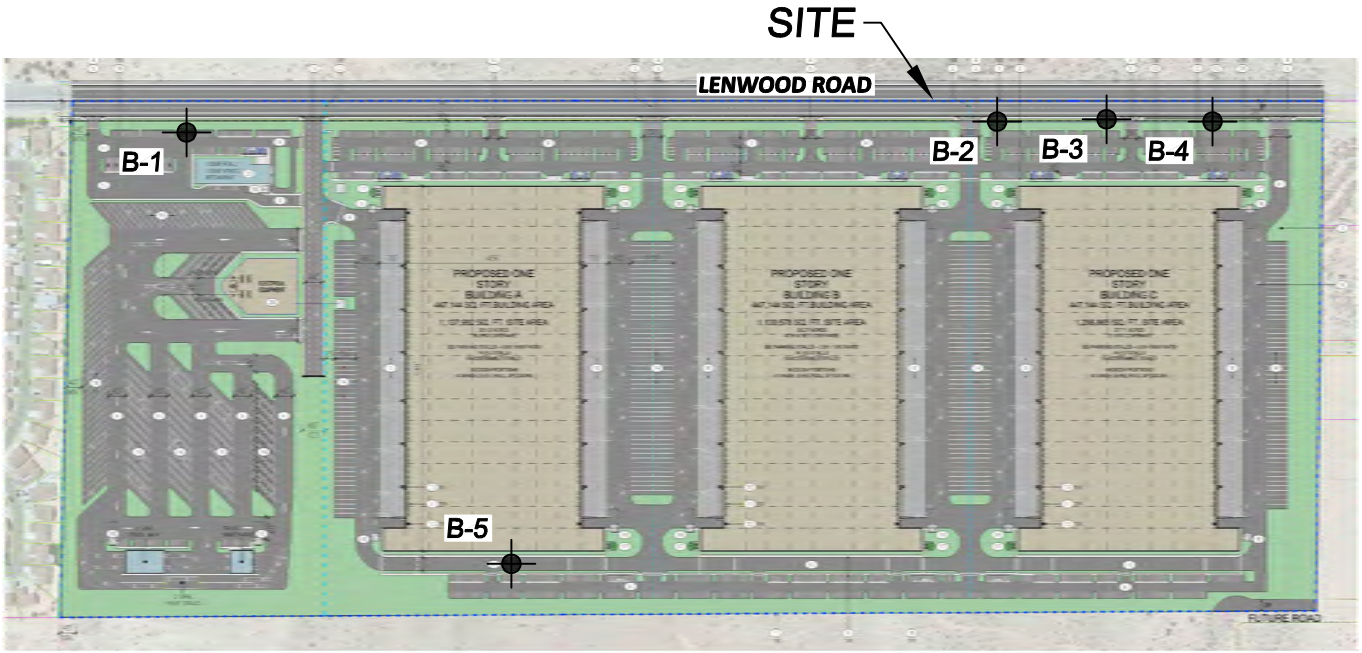
If we can be of any further assistance, please contact us at your convenience.

Sincerely,
MOORE TWINING ASSOCIATES, INC.
Geotechnical Engineering Division

Allen H. Harker, CEG
Certified Engineering Geologist

Read L. Andersen, RGE
Manager

Attachment: Preliminary Master Plan, dated April 10, 2024, prepared by RMW Architecture Interiors, with previously drilled borings plotted



SOURCE: PRELIMINARY MASTER SITE PLAN, DATED APRIL 10, 2024, PREPARED BY RMW ARCHITECTURE INTERIORS

APPROXIMATE TEST BORING LOCATION DRILLED JUNE 2022

N

0 500

APPROXIMATE SCALE IN FEET

TEST BORING LOCATION MAP
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

FILE NO. 07603-02-02	DATE DRAWN: 08/12/2024
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07604.02	DRAWING NO. 2

MOORE TWINING ASSOCIATES, INC.
Since 1898

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GEOLOGIC/SEISMIC HAZARDS REPORT

PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER

APNs 0497-142-(03, 04, 14, AND 15)

SOUTHEAST OF LENWOOD ROAD AND AGATE ROAD

BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

Project Number: H07603.02-01

For:

Mr. Brian Vail
EVC Partners, LLC
2410 Fair Oaks Boulevard, Suite 110
Sacramento, CA 95825

June 25, 2024

www.mooretwining.com

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2527 Fresno Street
Fresno, CA 93721

MOORE TWINING ASSOCIATES, INC.

June 25, 2024 H07603.02-01

Mr. Brian Vail
EVC Partners, LLC
2410 Fair Oaks Boulevard, Suite 110
Sacramento, CA 95825

Attention: Mr. Brian Vail

Subject: **Geologic/Seismic Hazards Report**
Proposed Electric Charging Truck Station with Travel Center
APNs 0497-142-(03, 04, 14, and 15)
Southeast of Lenwood Road and Agate Road
Barstow, San Bernardino County, California

Dear Mr. Vail:

We are pleased to submit this geologic/seismic hazards report prepared for the proposed electric charging truck station and travel center to be located southeast of the intersection of Lenwood Road and Agate Road in Barstow, San Bernardino County, California.

The contents of this report include the purpose of the investigation, scope of services, background information, investigative procedures, our findings, geologic and seismic hazards evaluations, conclusions, and notifications.

We appreciate the opportunity to be of service to EVC Partners, LLC. If you have any questions regarding this report, or if we can be of further assistance, please contact us at your convenience.

Sincerely,

MOORE TWINING ASSOCIATES, INC.
Geotechnical Engineering Division

Allen H. Harker

Allen H. Harker, CEG
Certified Engineering Geologist

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Fresno, CA 93721

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GEOLOGIC/SEISMIC HAZARDS REPORT

PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER

APNs 0497-142-(03, 04, 14, AND 15)

SOUTHEAST OF LENWOOD ROAD AND AGATE ROAD

BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

Project Number: H07603.02-01

1.0 INTRODUCTION

This report presents the results of a geologic/seismic hazards review for the proposed electric charging truck station and travel center to be located southeast of the intersection of Lenwood Road and Agate Road in Barstow, San Bernardino County, California. Moore Twining Associates, Inc. (Moore Twining) was authorized by EVC Partners, LLC, to conduct this investigation.

The contents of this report include the purpose of the report and the scope of services provided. The site history, previous studies, site description, and anticipated construction are discussed. In addition, a description of the site reconnaissance and the subsequent findings obtained are presented. Finally, the report provides an evaluation of the findings, an evaluation of geologic and seismic hazards, and general conclusions and recommendations. The report appendices contain the drawings (Appendix A), logs of borings from 2022 preliminary geotechnical engineering investigation (Appendix B), the results of laboratory tests from 2022 preliminary geotechnical engineering investigation (Appendix C), liquefaction analysis (Appendix D) and photograph log (Appendix E).

The Geotechnical Engineering Division of Moore Twining, performed the investigation.

2.0 PURPOSE AND SCOPE OF INVESTIGATION

2.1 Purpose: The purpose of the investigation was to provide the following:

2.1.1 A general site location/regional geologic map;

2.1.2 A general description of the subsurface soil and groundwater conditions encountered from our previous investigation at the site and review of published geologic information related to the site;

2.1.3 Summary of review of historic, low elevation aerial photographs for signs of potential fault surface rupture hazards;

2.1.4 Preparation of a site geologic map of the site and nearby surrounding area based on visual site observations, the previously drilled soil borings, and published geologic maps;

2.1.5 Preparation of a cross sections showing actual or probable geologic structure using Moore Twining's previous boring data, information collected from the geologic site reconnaissance, and regional geologic and fault hazard maps.

2.1.6 Summary of our review of historical seismicity, including an historical earthquake epicenter map relative to the site;

2.1.7 Discussion of potential geological hazards such as faulting, flooding, dam inundation, landslides, tsunamis, seiches, volcanic activity, expansive soils, hydrocollapse, and liquefaction and seismic settlement;

2.1.8 A statement of conclusions and any appropriate recommendations or mitigation measures regarding potential geologic hazards associated with active faulting;

2.1.9 A list of references used in preparation of the report.

This report is provided specifically for the electric truck charging station and travel center referenced in the Anticipated Construction section of this report. This report is a geologic/seismic hazards report and is not a geotechnical engineering investigation report. It should be noted that Moore Twining previously provided a report entitled, "Preliminary Geotechnical Engineering Investigation, Proposed Electric Charging Truck Station with Travel Center, APNs 0497-142-(03, 04, 14, and 15), Southeast of Lenwood Road and Agate Road, Barstow, San Bernardino County, California," dated July 29, 2022, Moore Twining Project No. H07603.02. The referenced report was preliminary in nature as design details for the future development were not known at the time the report was prepared. The scope of work for this geologic/seismic hazards report did not include a subsurface fault trenching exploration.

2.2 **Scope:** Our proposal, March 6, 2024, outlined the scope of our services. The actions undertaken to complete this report are summarized as follows.

2.2.1 A visual site reconnaissance was conducted.

2.2.2 The Topographic Map for the Barstow Quadrangle, California, dated 1993, prepared by the US. Department of Interior, Geological Survey, was reviewed.

2.2.3 A report, entitled: "Phase I Environmental Site Assessment Proposed Land Development, Southeast Corner of Lenwood Road and Agate Road, Barstow, California 92311, dated June 15, 2022, prepared by our firm, was reviewed for general background information.

2.2.4 A report entitled: "Preliminary Geotechnical Engineering Investigation, Proposed Electric Charging Truck Station with Travel Center, APNs 0497-142-(03, 04, 14, and 15), Southeast of Lenwood Road and Agate Road, Barstow, San Bernardino County, California," dated July 29, 2022, was reviewed for general background information.

2.2.5 The "San Bernardino County Land Use Plan, General Plan, Geologic Hazard Overlays," dated May 30, 2007, was reviewed. In addition, Policy Map HZ-1 Earthquake Fault Zones, Policy Map HZ-2 Liquefaction & Landslide Hazards, Policy Map HZ-3 Dam & Basin Hazards, and Policy Map HZ-4 Flood Hazards, all dated October 27, 2020, were reviewed from the Hazards Element of the San Bernardino Countywide Plan.

2.2.6 The Geologic Map and Borehole Stratigraphy of Hinkley Valley and Vicinity, San Bernardino County, California, dated 2020, prepared by David M. Miller, Victoria E. Langenheim, and Elizabeth K Haddon, was reviewed.

2.2.7 A report entitled, "Fault Evaluation Report FER-177, Lenwood Fault, Old Woman Springs Fault, and Silver Reef Fault, San Bernardino County," dated June 11, 1986, prepared by Michael Manson and the California Division of Mines and Geology, was reviewed.

2.2.8 A report entitled, "Fault Evaluation Report FER-189, Recently Active Traces of the Blackwater, Harper, Lockhart and Related Faults near Barstow, San Bernardino County," dated July 20, 1987, prepared by William A. Bryant, Associate Geologist, and the California Division of Mines and Geology, was reviewed.

2.2.9 A description of the Lenwood-Lockhart fault zone, Lenwood section (Class A), No. 111b, prepared by W.A. Bryant, dated 2000, from the Quaternary Fault and Fold Database in the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazard/qfaults, was reviewed.

2.2.10 Historical aerial photographs from various years between 1953 and 2020 were reviewed. Satellite images of the site between May 1994 and June 2023 from online sources, were also reviewed. In addition, stereo pair aerial photographs for the years 1953, 1968, and 1978 were reviewed.

2.2.11 Mr. Brian Vail (EVC Partners, LLC) was consulted during the work.

2.2.12 This report was prepared to present the purpose and scope, background information, geologic site reconnaissance, findings, evaluation of geologic and seismic hazards, and conclusions and recommendations.

3.0 BACKGROUND INFORMATION

The site description, site history and previous studies, and the anticipated construction are summarized in the following subsections.

3.1 Site Description: The project site is generally located southeast of the intersection of Lenwood Road and Agate Road in the Barstow area of San Bernardino County, California. The site is located just outside of the city limits of Barstow and less than ½ mile northwest of the community of Lenwood (see Drawing No. 1 in Appendix A of this report). The site has been assigned the following Assessor's Parcel Numbers (APNs): 0497-142-03, -04, -14, and -15.

The site is roughly rectangular in shape and covers about 96 acres. The site is bounded by Lenwood Road to the west, by vacant land and residential developed properties to the north with Agate Road beyond, by a residential subdivision to the south, and by vacant land to the east.

The site consists of rolling terrain generally ranging from about 2,280 feet above mea sea level (AMSL) along the eastern portion of a ridge in the southern portion of the site to about 2,192 feet AMSL near the northeastern corner of the site. Several small and shallow washes were noted through out the site. At the time of our investigation, the site was covered with scattered seasonal vegetation consisting of weeds, desert shrubs and grasses. Dirt roads or paths that appeared to be used by offroad vehicles were noted through out the site, including a path along the western side of the site, parallel to Lenwood Road. Loose, sandy soils were noted at the ground surface in some portions of the site. Fine to coarse gravel fragments were noted to be scattered across the ground surface. Four (4) ridges, generally trending east to west, with exposed beds of volcanic rock were noted at the site and are discussed further in the Geologic Site Reconnaissance (Section 4.3) of this report.

Buried fiber optic utility markers were observed along the western boundary of the project site trending from south to north.

3.2 Site History: Based on review of historical satellite images of the site dating from 1953 to 2023, the conditions of the site have not changed significantly from 1953 to those described at the time of our geologic site reconnaissance conducted on May 22, 2024.

3.3 Previous Studies: The previously referenced report entitled: "**Phase I Environmental Site Assessment, Proposed Land Development, Southeast of Lenwood Road and Agate Road, Barstow, California 92311***"* prepared by our firm, was reviewed for general background information.

In addition, the previously referenced report entitled: "**Preliminary Geotechnical Engineering Investigation, Proposed Electric Charging Truck Station with Travel Center, APNs 0497-142-(03, 04, 14, and 15), Southeast of Lenwood Road and Agate Road, Barstow, San Bernardino County, California**," dated July 29, 2022, was reviewed for general background information. Findings regarding the subsurface soil and groundwater conditions from the borings drilled from our 2022 preliminary geotechnical engineering investigation are summarized in Sections 4.4 and 4.5 of this report.

Two fault evaluation reports were reviewed. One report includes discussion of the Lenwood fault which is mapped southeast of the site and extending further to the southeast. The other report includes description of the Lockhart fault which is mapped west of the site and extending further to the northwest. The Lenwood fault and the Lockhart fault make up the Lenwood-Lockhart Fault Zone. The fault evaluation reports and additional information regarding the Lenwood-Lockhart Fault Zonefrom the Quaternary Fault and Fold Database of the United States are discussed in Section 4.2 of this report.

3.4 Anticipated Construction: Based on our understanding, a new electric charging truck station with a travel center is being planned at the site. A site plan was not available at the time this report was prepared. However, in general, the future development is anticipated to include a fueling canopy and areas for charging electric vehicles. A travel shop, truck service building and possibly a restaurant building may also be planned. Based on the rolling terrain, cuts and fills on the order of 5 to 10 feet or greater may be required to establish design grades for the project.

4.0 FINDINGS AND RESULTS

The findings from research of geologic maps and literature and the referenced 2022 geotechnical exploration and laboratory testing are summarized in the following subsections.

4.1 Mapped Geologic and Soils Conditions: The Geologic Map and Borehole Stratigraphy of Hinkley Valley and Vicinity, San Bernardino, California, dated 2020 (see Drawing No. 5 in Appendix A) indicates that the subject site is underlain by three (3) units.

The Miocene-age Barstow Formation (Tb) covers the majority of the site and is described as sandstone, siltstone, limestone, and minor volcanic rocks near Lenwood. These rocks are described as being older than 19 million years old to approximately 14 million years old.

Portions of the central and western sides of the site are shown to be underlain by Young Mixed Alluvial and Eolian deposits (Qyae) that are described as being Holocene to Pleistocene age. This unit is described as follows: *"Deposit consists of alluvial and eolian sediments that are thoroughly mixed....Deposits are moderately sorted to well-sorted sand and gravel. Sediments are typically loose. Soil development and desert pavement are similar to or less pronounced than that exhibited by correlative alluvial-fan units. Deposits form more muted topographic surfaces than alluvial-fan surfaces lacking significant eolian sand. Surfaces are sparsely vegetated, generally supporting creosote bush, white bursage, and perennial grasses. Deposits grade completely toward eolian-sand sources by increase of sand component and decrease of discrete alluvial beds."*

The northwestern portion of the site is shown to be underlain by Young Mojave River deposits, unit 3 (Qymr3) which is described as middle Holocene age. This unit is described as *"arkosic gravel, sand, and silt with reddish quartzite pebbles. Well bedded with typical fluvial stream-deposit characteristics, such as normal grading, cross-beds, and less common crevasse splay and floodplain sediment. Deposit displays bar and swale topography lies 1-2 meters above modern river channel elevation."*

During the geologic site reconnaissance described below in Section 4.3, the Young Mixed Alluvial and Eolian deposits (Qyae) were generally observed as eolian "dune-like" deposits in the most of the western lower lying portion of the site (see Photograph No. 16 in Appendix E of this report), and volcanic rocks of the Barstow Formation were observed along four (4) different ridges that were much higher in elevation (see Photograph Nos. 9 through 15 in Appendix E of this report).

Based on our review of the soil survey maps, prepared by the U.S. Department of Agriculture, Natural Resources Conservation District, the majority of the site is shown to be underlain by rock-outcrop-lithic torriorthents complex, 15 to 50 percent slopes which is described as unweathered rock outcrop bedrock in the upper 10 inches and lithic torriorthents in the upper 15 inches underlain by bedrock from 15 to 29 inches below site grade (BSG). Other portions of the site are shown to be

underlain by the Victorville sandy loam described as silty sands from 0 to 35 inches BSG, silty sands and poorly graded sands with silt from 35 to 49 inches and lean clays with sand or sandy lean clays from 49 to 60 inches BSG. Other smaller portions of the site are mapped as being underlain by the Cajon sand, 2 to 9 percent slopes, which is described as silty sands and poorly graded sands from 0 to 60 inches BSG; dune land (with no description); and the Joshua loam, 2 to 5 percent slopes, which is described as interbeds of silty clay, clayey sand and silty, clayey gravel from depths of 0 to 59 inches BSG.

4.2 Published Literature Regarding the Lenwood-Lockhart Fault Zone: A report entitled, "**Fault Evaluation Report FER-177, Lenwood Fault, Old Woman Springs Fault, and Silver Reef Fault, San Bernardino County**," dated June 11, 1986, prepared by Michael Manson and the California Division of Mines and Geology, was reviewed.

This Fault Evaluation Report included descriptions of the Lenwood, Old Woman Springs, and Silver Reef faults, which are located in southwestern San Bernardino County, California. The Lenwood fault is mapped in the vicinity of the site while the Old Woman Springs fault and Silver Reef fault are both located over 40 miles southeast of the site and parallel to the southern end of the Lenwood fault.

The report indicates: *"The Lenwood fault is one of a series of subparallel, northwest-trending, right-lateral, strike-slip faults in the western Mojave Desert...The Lenwood fault was mapped in its entirety and named by Dibblee (1960a, 1964b, 1964c, 1967b, 1970)...Dibblee shows the Lenwood fault to have a total length of approximately 70 km (44 miles), trending northwestward from the San Bernardino Mountains to the Mojave River at Lenwood. He interprets the fault to be vertical in cross-section, with various senses of vertical offset (Dibblee, 1960a, 1967b, 1970). Right-lateral strike-slip displacement is indicated locally in the Daggett, Ord Mountains, and Old Woman Springs 15' quadrangles, with inferred right-slip shown in the Barstow 15' quadrangle. The youngest unit clearly shown to be offset by the Lenwood fault is Holocene alluvium in sec. 23 in the Rodman Mountains quadrangle; however, this may be drafting error. Where bedrock units or Pleistocene alluvium are truncated by faulting, Dibblee generally shows the unit to be faulted against young alluvium (for example, at Soggy Lake, Lucerne Valley, and Tyler Valley). Elsewhere, the fault is shown as concealed by young alluvium of Holocene or undifferentiated Holocene and Pleistocene age."*

The report also indicated, *"Morton and others (1980) used black-and-white, low-sun-angle air photos to produce their photo reconnaissance map of fault-related features along the Lenwood fault. Their annotated strip map shows alignments of scarps and tonals in younger and older alluvium, and alignments of saddles, linear trenches and drainages, closed depressions, etc. in bedrock along the general trend of the fault as mapped by Dibblee. However, they did not field-check the*

geomorphic features, nor do they discuss recency of faulting. Their data are plotted on 1:24,000- and 1:62,500–scale maps, and comprise the single most-important source of information on recently-active traces of the Lenwood fault. Most of the fault-related features shown by Morton and others were verified by photo-inspection and field-inspection during this study. Annotations such as 'scarps appear to cut youngest alluvium' suggest that the fault has been active in Holocene time."

The report also indicated, *"In January 1973, D.M. Morton (U.S. Geological Survey) and C.H. Gray (California Division of Mines and Geology) investigated reports of structural damage to 6 homes in Lenwood. The damage consisted of cracks (less than 2 cm wide) in the walls of these homes ©. Gray, 1986, written comm.), although D.M. Morton (1986, pers. comm.) stated that one of the home on Cheryl (Cheryle) Street was skewed '2 or 3 inches' off its slab foundation and had to be torn down. The alignment of damaged homes shown on the map provided by Gray has a significantly more northerly trend than the shallow linear swale shown by Morton and others."*

Regarding lateral displacement of the Lenwood fault, the report indicated the following: *"Garfunkel (1974) calculates that 15-20 km of right-lateral displacement has occurred since Miocene time, based upon locations of 'offset' Paleozoic marine sedimentary rocks....Doka (1983, p. 307) calculates the right-lateral displacement along the Lenwood fault is no greater than 1.5 to 3.0 km. His estimate is based on measurements of an offset, high-angle, southern margin of an early Miocene detachment fault terrane."*

Based on air photo interpretations and field observations, the report indicates the following about the Lenwood fault: *"The Lenwood fault is generally well-defined in discontinuous segments from just east of Barstow Road (Highway 247) in Stoddard Valley, southeastward to Stony Ridge Road, northeast of Old Woman Springs. Recently-active traces can be followed as alignments of scarps, linear drainages, sidehill benches, breaks-in-slope, shutter ridges, closed depresssions, deflected drainages, and offset alluvial fans. Southeast of Stony Ridge Road, the fault is largely concealed by young alluvium, although its position near Highway 247 (Barstow Road) is suggested by an en echelon alignment of knolls, scarps, and weak tonals in late Quaternary alluvium. Geomorphic evidence of recent faulting is rather discontinuous from near Barstow Road northwestward to the vicinity of Lenwood....The existence of shutter ridges and offset drainages, fans, and valleys along the fault clearly indicate a dominant element of right-lateral strike-slip displacement, but scarps and depressions suggest that components of dip-slip are locally important."*

The report indicates evidence of Holocene rupture along the Lenwood fault is located in areas southeast of the subject site, *"where large closed depression (graben) has been formed by the main fault and a westerly branch fault. Here, the main trace is a well-defined, southwest-facing scarp, up to 7 meters high, in an alluvial fan of latest Pleistocene to early Holocene age. Holocene alluvium abuts the scarp, and may be faulted....Evidence of latest Pleistocene or Holocene faulting is found in a small, unnamed valley (closed depression)...west of Tyler Valley. This is where Dibblee (1964b) shows faulted Holocene alluvium."*

A report entitled, "**Fault Evaluation Report FER-189, Recently Active Traces of the Blackwater, Harper, Lockhart and Related Faults near Barstow, San Bernardino County**," dated July 20, 1987, prepared by William A. Bryant, Associate Geologist, and the California Division of Mines and Geology, was reviewed.

The Harper Fault Zone, discussed in Fault Evaluation Report FER-189, is located about 9 miles north of the site and trends northwest-southeast, parallel to the Lenwood-Lockhart Fault Zone. The Blackwater Fault Zone is located on the northeast side of the Harper Fault Zone and also trends northwest-southeast. The Lockhart Fault is located on the west side of the site and continues further to the northwest. The North Lockhart fault and South Lockhart fault generally trend parallel to the Lockhart fault on the northeast and southwest sides of the Lockhart fault, respectively. The North Lockhart fault is about 19½ miles northwest of the site, and the South Lockhart fault is about 16½ miles west-northwest of the site. For the purpose of this report, discussion is included from Fault Evaluation Report FER-189 regarding the Lockhart fault which is mapped directly west of site and extending further to the northwest.

The report indicates, *"The Lockhart fault is a 40 km-long, northwest-trending high-angle fault mapped by Dibblee (1958, 1968) and Page and Moyle (1960). The magnitude of displacement along the Lockhart fault is not known, but Dibblee (1968) stated that the fault is right-lateral strike-slip with a component of down-to-the-northeast vertical displacement. The Lockhart fault offsets Quaternary alluvium and juxtaposes Holocene alluvium against older (Pleistocene) alluvium." The report indicates that Page and Moyle (1960) extended the Lockhart fault about 25 km to the southeast of the southeast end of the Lockhart fault that Dibblee had mapped. The report indicated, "The existence of this southeastern projection of the Lockhart fault is probably based on water well data. An apparent groundwater barrier in the older alluvium of Page and Moyle (1960) is indicated by a difference in water levels of 22.18 feet...Several wells in older alluvium within 1 km of the southwest side of the fault have water levels that range from 48 feet to 64 feet. The non-uniformity of depths to ground water indicates that there may be rapid facies changes within the older alluvium, more than one aquifer, or folding or faulting of a single aquifer along a broad zone of faulting approximately 1 km wide."*

The report further indicates, *"Dibblee (1958) mapped an inferred branch fault along the northern end of the Lockhart fault as offsetting Holocene alluvium. This fault segment is also associated with small playas, possibly suggesting recent ground deformation. However, Dibblee (1985) concluded that the Lockhart fault is not Holocene active, but was active about 200ka (200,000 years ago). Dibblee (1985) stated that the Lockhart fault shows little topographic expression, but is prominent on air photos."*

Based on air photo interpretations and field observations, the report indicates the following about the southernmost segment of the Lockhart fault closest to the subject site: *"The southernmost segment of the fault mapped by Page and Moyle (1960) is poorly defined and was not verified in the older alluvium by this writer." The report indicates the following regarding the best-defined segment of the Lockhart fault. "The best-defined segment of the Lockhart fault is delineated by a moderately well-defined, northeast-facing scarp in what Dibblee (1968) mapped as Pleistocene alluvium. The Pleistocene alluvium at this location is probably older than 100 ka (100,000 years old) and possibly older than 500 ka (500,000 years old), based on multiple K (pedogenic carbonate) horizons, degree of induration and dissection of the alluvium. This segment of the fault is characterized by a significant component of up-on-the-southwest vertical displacement; geomorphic evidence of right-lateral strike-slip displacement was not observed." Further to the northwest, the report indicates, "Geomorphic features such as linear ridges in crystalline bedrock and right-laterally deflected drainages are permissive of Holocene strike-slip faulting, but may be enhanced by differential erosion. This southeastern segment of the Lockhart fault is probably characterized by a late Quaternary slip-rate of less than 1 mm/yr."*

A description of the **Lenwood-Lockhart fault zone, Lenwood section (Class A), No. 111b**, prepared by W.A. Bryant, dated 2000, from the Quaternary Fault and Fold Database in the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazard/qfaults, was reviewed.

Additional information regarding the Lenwood fault from this document indicated, *"Traces of the Lenwood fault at Soggy Lake had up to 5 centimeters of triggered dextral displacement associated with the 1992 Mw 7.3 Landers earthquake (Hart and others, 1993 #3356)...Padgett (1994 #6643) excavated two fault normal trenches across the traces of the Lenwood fault at Soggy Lake and exposed evidence of 3 paeloearthquakes in the past 8.2 ka (8,200 years). Padgett's (1994 #6643) event chronology identified large surface-faulting events 1.8±0.2 ka (1,800 years ± 200 years) was interpreted by Padgett to be a small displacement event, probably similar to the triggered slip observed along the Lenwood fault after the 1992 Landers earthquake. Padgett (1994 #6643) concluded that the Lenwood fault ruptures in 3-m displacement events and estimated a Holocene slip rate of about 0.5 millimeters/year. Peterson and Wesnousky (1994 #6024) estimated a preferred long term slip rate of 0.8 millimeters/year (0.05-1.5 mm/yr), based on 1.5-3.0 kilometer dextral offset*

of the Kane Springs fault and initiation of slip between 2 Ma and 20 Ma (2 million and 20 million years ago)." The document also indicates, *"Southeast of Lenwood, the Lenwood-Lockhart fault zone strikes about North 30 degrees West and is delineated by generally well defined geomorphic evidence of Holocene dextral displacement. Northwest of Lenwood, the fault zone strikes North 55 to 60 degrees West and, though locally there is geomorphic evidence of Holocene dextral slip, the fault zone generally lacks geomorphic evidence of Holocene displacement (Manson, 1986 #6642; Bryant, 1987 #6626)."* The document also indicates, *"Peterson and others (1996 #4860) modeled a Mw 7.3 earthquake along the Lenwood, Lockhart, and Old Woman Springs [117] faults and termed this fault zone the Lenwood-Lockhart fault zone....Lenwood section proposed in this compilation, based on fault source modeling by Peterson and others (1996 #4860). Section extends from the town of Lenwood southeast to the northern front of the San Bernardino Mountains."*

No previous geotechnical engineering reports or geological studies conducted for this site were provided for our review. If these documents are available they should be provided to Moore Twining for review.

4.3 <u>Geologic Site Reconnaissance</u>: A geologic site reconnaissance was conducted by a Moore Twining Certified Engineering Geologist on May 22, 2024 at the subject site and some adjacent lands. The general site conditions observed from our previous 2022 Preliminary Geotechnical Engineering Investigation are described in Section 3.1 of this report. Additional findings from the May 22, 2024 site reconnaissance are described in this section.

Prior to the geologic site reconnaissance, stereo pair aerial photographs were reviewed for the years 1953, 1968, and 1978 for surface conditions that may be evidence of active faulting at the subject site. The stereo pair aerial photographs for the years 1953, 1968 and 1978 did not show any evidence of active faulting at the subject site.

During the geologic site reconnaissance, the mapped, active portions of the Lenwood fault were reviewed (area shown southeast of the site in red color on Drawing No. 3 and southeast of the site in red and orange colors on Drawing No. 4 in Appendix A of this report). The report entitled, "Fault Evaluation Report FER-177, Lenwood Fault, Old Woman Springs Fault, and Silver Reef Fault, San Bernardino County," dated June 11, 1986, prepared by Michael Manson and the California Division of Mines and Geology, was reviewed prior to the geologic site reconnaissance. Figure 4 from the Fault Evaluation Report FER-177 indicated the location of the Lenwood fault southeast of the Interstate 15 freeway (southeast of the subject site) was based on tonal evidence, truncated Quaternary beds, and offset ridges and drainages. During the geologic site reconnaissance, the tonal evidence was observed where the northeast side of the fault included soil with coarse gravel, cobbles and boulders with very little sparse grasses vegetation growth while the southwest side of the fault include soil with fine gravel and abundant dried grasses vegetation growth (see photograph Nos. 1 through 3 in Appendix E of this report). A drainage on the southeast side of the Interstate I-15 freeway, southeast of the subject site, was also observed to exhibit a few feet of right-lateral strike-slip movement from the Lenhart fault (see photograph No. 4 in Appendix E of this report).

The Fault Evaluation Report FER-177 and Drawing No. 3 in Appendix A of this report indicates that the Lenwood fault has also been mapped through a residential neighborhood in the community of Lenwood, located about ½ mile southeast of the subject site. Evidence such as offset curbs from the Lenwood fault were not observed in this residential neighborhood where the Lenwood fault has been mapped.

In addition, a shallow, linear swale was mapped as an active fault feature of the Lenwood fault in the Fault Evaluation Report FER-177, directly southeast of the southeast portion of the subject site. This shallow feature was observed during the geologic site reconnaissance and is shown on Drawing No. 3 in Appendix A of this report and in photograph Nos. 5, 6 and 17 in Appendix E. The shallow linear swale (active surficial portion of the Lenwood fault) did not extend into the subject site.

As shown on Drawing No. 5 in Appendix A of this report (Regional Geologic Map), the subject site is mostly covered by the Barstow Formation which is noted as consisting of volcanic rock in the Lenwood area where the site is located. Four (4) ridges of volcanic rock were noted throughout the site. The ridges generally trended from east to west in various portions of the site. Where the volcanic rock was observed on these ridges, bedding planes of steeply dipping volcanic rocks were measured. Refer to Drawing No. 7 (Site Geologic Map) for the approximate areas of the ridges described in this report where strike and dip bedding attitudes are shown.

The first ridge was an S-shaped ridge in the southern portion of the site. This ridge crossed the majority of the site and exhibited two distinct bedding planes of steeply dipping volcanic rocks that followed the top of the S-shaped ridge. The bedding planes of the volcanic rock along this ridge dipped down about 43 to 50 degrees to the south in the eastern portion of the site. These beds are shown on photograph Nos. 9 and 10 in Appendix E of this report, and the strike and dip attitudes of the bedding measured are shown on photograph No. 17 in Appendix E of this report. The bedding plane of the volcanic rock was less steep and dipped down about 38 degrees to the south in the central portion of the site (see photograph Nos. 11 and 17 in Appendix E of this report). The volcanic rock was not observed along the ridge in the western portion of the site where the ridge decreased in elevation. No evidence of offset of the steeply dipping volcanic beds was observed that would be indicative of faulting at the ground surface.

A second ridge was observed about 475 feet north of the western portion of the first ridge in the western portion of the subject site. This ridge also include steeply dipping volcanic rock that dipped down about 58 degrees to the south (see photograph Nos. 12 and 17 in Appendix E of this report). No evidence of offset of the steeply dipping volcanic beds was observed that would be indicative of faulting at the ground surface.

A third ridge was observed in the central-eastern portion of the site, about 1,125 feet north of the eastern portion of the first ridge. This ridge also included steeply dipping volcanic rock that dipped down about 77 degrees to the south and was spray painted with graffiti (see photograph No. 13 in Appendix E of this report and the strike and dip attitude of the bedding measured and shown on photograph No. 17 in Appendix E of this report). No evidence of offset of the steeply dipping volcanic beds was observed that would be indicative of faulting at the ground surface.

A fourth ridge was observed about 650 feet north of the third ridge in the northern portion of the subject site. This was a long, broad ridge that trended east to west across the majority of the site, except for the westernmost portion of the site. This ridge also included steeply dipping volcanic rock that dipped down to the north and south. Two bedding attitudes taken along the western portion of the south side of this ridge dipped steeply down about 56 to 65 degrees to the north (see photograph No. 14 in Appendix E of this report). Other volcanic beds further to the west along the ground surface at the top of this ridge were completely vertical (dipping down 90 degrees). Another area on the north side of this ridge had some volcanic rocks with near vertical bedding and was measured to dip down about 80 degrees to the south (see Photograph No. 15 in Appendix E of this report). The volcanic beds dipping north and south along this ridge appear to be evidence of a syncline and an anticline, or folds in the stratified rock (see approximate axis of syncline and anticline shown on Drawing No. 7 in Appendix A of this report). No evidence of offset of the steeply dipping volcanic beds was observed that would be indicative of faulting at the ground surface.

The strike and dip bedding attitudes measured along the ridges of the volcanic rock (Barstow Formation) have similar high-angle dip measurements to those shown on the Regional Geologic Map (Drawing No. 5 in Appendix A of this report) which included dip measurements in the northern portion of the site of 83 and 88 degrees to the south and a dip measurement in the southern portion of the site of 67 degrees to the south. The strike and dip bedding attitudes measured along the ridges of the volcanic rock (Barstow Formation) during the geologic site reconnaissance are shown on Photograph No. 17 in Appendix E of this report on a satellite image from 2009. This 2009 image was chosen to be used as it clearly shows the rock and vegetation covering the site in black in contrast to other recent aerials of the site in which the rock and vegetation are shown as being very faint.

Beyond the ridges, other areas of the site were lower in elevation and either covered by sand and scattered gravel-size pieces of rock or by eolian “dune-like” fine-grained sands as shown in photograph No. 16 in Appendix E of this report. The “dune-like” fine-grained sands were most prevalent in the western portion of the site as shown on Drawing No. 7 in Appendix A where geologic unit Qyae is shown for Holocene to latest Pleistocene-age Young mixed alluvial and eolian deposits and the geologic unit Qymr3 is shown for the Holocene-age Young Mojave River deposits, unit 3.

No evidence of faulting such as horizontal/vertical offset in the volcanic beds of the Barstow Formation along the ridges at the site. In addition, no ground cracking, offsets in washes, or other evidence of potential active faulting was observed along the ground surface in any of the other portions of the site lower in elevation where surficial deposits cover the Barstow Formation and where the Holocene to latest Pleistocene-age Young mixed alluvial and eolian deposits (Qyae unit) and the Holocene-age Young Mojave River deposits, unit 3 (Qymr3 unit), are mapped as shown on Drawing No. 7 in Appendix A of this report.

4.4 Soil Profile: The following is a summary of soils encountered during the geotechnical borings drilled for our 2022 preliminary geotechnical engineering investigation. Due to access constraints from the loose sandy surface soils, the drill rig borings were limited to the western portion of the site along an existing dirt access road (see Drawing No. 2 in Appendix A of this report). Additionally, one (1) exploratory boring was conducted using a hand-auger to an approximate depth of 3 feet BSG in the eastern portion of the site. The near surface soils encountered in these borings included poorly graded sands and silty sands to depths of about 3½ to 10 feet BSG. The near surface sandy soils were underlain by interbedded layers of lean clay, sandy silt, silty sand, deeper poorly graded sands, and clayey sand to the maximum depth explored of about 35½ feet BSG. At a depth of about 35½ feet BSG, practical auger refusal was encountered in test boring B-2 due to a strongly cemented layer. It is possible that refusal may have been encountered on weathered volcanic bedrock materials of the Barstow Formation which are shown as a queried unit on Drawing No. 8 (Cross Section A-A') in Appendix A of this report.

The near surface sandy soils encountered in the previous geotechnical borings in the upper 3½ to 5 feet BSG were loose to medium dense. The underlying silts and clays were generally stiff to hard, with the exception of a soft silt layer encountered at a depth of about 10 feet in boring B-2. The deeper granular soils (poorly graded sands, silty sands and clayey sands) were medium dense to very dense. Cross section A-A' shows the general soil profile along the western side of the site where the borings were drilled with the drill rig and is included as Drawing No. 8 in Appendix A of this report. Drawing No. 9 (Cross Section B-B') is also included in Appendix A of this report trending from north to south, showing the Barstow Formation and queried surficial soils covering the Barstow Formation across the four ridges in the eastern portion of the site.

The foregoing is a general summary of the soil conditions encountered in the test borings drilled for this investigation. Detailed descriptions of the soils encountered at each test boring location are presented in the logs of borings in Appendix B. The stratification lines in the logs represent the approximate boundary soil types; the actual in-situ transition may be gradual.

4.5 Groundwater Conditions: Groundwater was not encountered in any of the test borings to the maximum depth explored of about 35½ feet BSG.

Historical ground water data from the Department of Water Resources indicates that a well located about 500 feet north of the site indicates that ground water has ranged from as deep as about 108 feet BSG in 1992 to as shallow as about 51 feet BSG in 1993. The most recent measurement from this well indicated a depth of about 73 feet BSG in September 2023.

It should be recognized, however, that groundwater elevations fluctuate with time, since they are dependent upon seasonal precipitation, irrigation, land use, and climatic conditions as well as other factors. Therefore, water level observations at the time of the field investigation may vary from those encountered both during the construction phase and the design life of the project. The evaluation of such factors was beyond the scope of this investigation and report.

5.0 GEOLOGIC AND SEISMIC HAZARDS EVALUATION

The geologic and seismic hazards are discussed in the following sections. The conclusions obtained from the results of our evaluations of the geologic and seismic hazards are described in the Conclusions and Recommendations section of this report.

5.1 Geomorphic and Geologic Setting: Barstow is located in the Mojave Desert province in San Bernardino County, California. The site is located just outside of the city limits of Barstow and less than ½ mile northwest of the community of Lenwood and less than ¼ miles west of the community of Grandview (see Drawing No. 1 in Appendix A of this report).

The Mojave Desert province is bordered by the Garlock Fault Zone and Sierra Nevada province beyond to the northwest and the San Andreas Fault Zone and the Transverse Ranges province beyond to the southwest. Several active, potentially active faults and inactive faults within the Mojave Desert province generally trend in a northwest to southeast orientation.

Based on the map of active and potentially active faults from the USGS Quaternary fault mapping shown on Drawing No. 3 in Appendix A of this report, the Lenwood-Lockhart Fault Zone is mapped near, but not within the subject site. The mapping indicates the Lockhart fault is located about 0.85 miles west of the site and continuing northwest of the site, and the Lenwood fault is mapped directly southeast of the site.

The Fault Activity Map of California, prepared by the California Geological Survey, shown on Drawing No. 4 in Appendix A of this report, also shows the Lockhart fault to the west and northwest sides of the site and trends in a northwest-southeast orientation. The closest portion of the Lockhart fault to the site is shown west of the site on Drawing No. 3 in Appendix A of this report where it is shown as a black dotted line, across the Mojave River. This black dotted symbol is indicative of the fault being an inferred location and being undifferentiated Quaternary age (< 1.6 million years).

Further away from the site to the northwest, the Lockhart fault has en echelon (parallel) faults that are identified as the North Lockhart fault and South Lockhart fault as shown on Drawing No. 4 in Appendix A of this report.

The Lenhart fault is mapped directly southeast of the southeast portion of the site and extends further to the southeast as shown on Drawing Nos. 3 and 4 in Appendix A of this report. The closest active and potentially active segments of this fault closest to the site are also shown on Drawing No. 3 in Appendix A of this report. Two segments are shown as red lines on Drawing No. 3 in Appendix A of this report, directly southeast of the southeast portion of the site. These are noted as well constrained locations and considered to be active portions of the Lenwood fault. Two other segments east and southeast of the site are shown as green dotted lines in the community of Grandview and as a solid green line further to the southeast (east of the community of Lenwood). The dotted pattern indicates that the location in the community of Grandview is an inferred location, and the green color for these faults segments indicate they are Late Quaternary age (<130,000 years) or potentially active portions of the Lenwood fault.

Active or potentially active faults are not known to be mapped within the site. No evidence of active faulting was observed at the site during our field exploration and during the geologic site reconnaissance.

Regional geologic and site geologic maps are included in Appendix A as Drawing Nos. 5 and 7, respectively, and a geologic (soil profile) cross section through borings B-1 through B-4 in the western proposed site is included as Drawing No. 8 in Appendix A of this report. In addition, a geologic (soil profile) cross section trending north to south is included on Drawing No. 9 in Appendix A of this report. The section shows the Barstow Formation and queried surficial soils covering the Barstow Formation across the four ridges in the eastern portion of the site.

Surficial geologic deposits are described in Section 4.1 of this report.

5.2 **Tectonics and Seismicity**: An "active fault" is defined, for the purpose of this evaluation, as a fault that has had surface displacement within the Holocene Epoch (about the last 11,700 years). Potentially active faults also contribute to the seismicity of the site. A widely accepted definition of "potentially active" is a fault that does not show evidence of displacement during the Holocene, but shows evidence of displacement occurring less than 1.6 million years ago (after the beginning of the Pleistocene Epoch). Since the Quaternary Period includes the Holocene and Pleistocene Epochs, Quaternary faults are those that have documented latest fault displacement within the Holocene or Pleistocene Epochs, undifferentiated. Faults showing evidence of displacement older than 1.6 million years are usually classified as "Pre-Quaternary" and "inactive." Pre-Quaternary faults do not impact the site seismicity. The Lenwood fault mapped southeast of the site is shown as being an "active" fault. The Lockhart fault mapped directly west and northwest of the site is shown as being a "potentially active" fault segment, and some other segments of the Lockhart fault further to the northwest are shown as being an "active" fault segment.

The following subsections briefly describe the major fault systems contributing to the seismicity of the site area.

The seismicity of the site area was evaluated based on the results of deaggregation of the 2,475 year return period event (2 percent probability of exceedance in 50 years) using the United States Geological Survey deaggregation website (https://earthquake.usgs.gov/hazards/interactive/), Dynamic Conterminous U.S. 2014 Edition (update). Major active regional faults occur to the southeast and northwest of the project site as well as northeast and southwest of the site (see orange and red colored faults on Drawing No. 4 in Appendix A of this report). The deggregation analysis shows the Old Woman Springs fault as part of the Lenwood-Lockhart Fault Zone. The Woman Spring fault is southeast of the site and is roughly parallel to the Lenwood fault at the southeast end of the Lenwood fault. The Gravel Hills-Harper fault zone occurs north and northwest of the site and contains large active fault segments. The Calico-Hildago fault is located east and southeast of the site and contain large active fault segments.

The primary seismic sources contributing to design seismic ground motion estimates for the site are the Lenwood-Lockhart-Old Woman Springs fault which has a predominant moment magnitude of about 7.2, and numerous gridded fault model point sources (general seismicity not related directly to specific known seismic source) which have predominant moment magnitudes between about 5.5 and 5.6. The Gravel Hills-Harper fault zone, with a predominant moment magnitude of about 7.2, and the Calico-Hidalgo, with a predominant moment magnitude of about 7.1, contribute less significantly to the site seismicity. The nearby major fault systems are depicted on Drawing No. 4 in Appendix A of this report.

5.3 Geologic Hazards: The potential geologic hazards of landslides and conditional geologic hazards are described in the following subsections.

5.3.1 Landslides: The site does include sloping terrain, mostly along the four (4) ridges of volcanic rock described in the geologic site reconnaissance, section 4.3 of this report. The slopes along the north and south sides of the east-west trending volcanic ridges generally had inclinations of about 4 Horizontal to 1 Vertical (4H:1V) or flatter (≤25 percent slope inclinations). The first and second ridges in the southern and southwestern portions of the site have a maximum slope inclination of about 20 percent. The third ridge in the central-eastern portion of the site has a maximum slope inclination of about 25 percent. The fourth long, broad ridge in the northern portion of the site has a maximum slope inclination of a bout 10 percent on the north side of the ridge and a maximum slope inclination of about 20 percent on the south side of the ridge. No evidence of pas slope instability was observed along any of the volcanic ridges. Other areas of the site were relatively flat or had very gently sloping terrain. The United States Geological Survey, Interactive U.S. Landslide Inventory map, (see References for website) does not show any landslides at the site or in the vicinity of the site. Due to the 4H:1V or flatter inclinations of the slopes at the site and the absence of any landslides based on our observations during the geologic site reconnaissance, the potential for landslide hazards at the site is considered to be low.

5.3.2 Expansive Soils: One of the potential geotechnical hazards evaluated at this site is the expansion potential of the near surface soils. Over time, expansive soils will experience cyclic drying and wetting as the dry and wet seasons pass. Expansive soils experience volumetric changes (shrink/swell) as the moisture content of the clayey soils fluctuate. These shrink/swell cycles can impact foundations and lightly loaded slabs-on-grade when not designed for the anticipated expansive soil pressures. Expansive soils cause more damage to structures, particularly light buildings and pavements, than any other natural hazard, including earthquakes and floods (Jones and Holtz, 1973). Expansion potential may not manifest itself until months or years after construction. The potential for damage to slabs-on-grade and foundations supported on expansive soils can be reduced by placing non-expansive fill underlying foundations and slabs-on-grade.

In evaluation of the potential for expansive soils at the site, expansion index testing was performed on one (1) sample of the near surface silty sand soil samples from our 2022 preliminary geotechnical engineering investigation. The expansion index testing was performed in accordance with ASTM D4829 and the result is included in Appendix C of this report. The result of laboratory testing revealed an expansion index of 0, indicating very low expansion potential for the near surface granular soils. However, clay soils with medium plasticity were encountered as shallow as 3½ feet in one of the borings drilled during our 2022 preliminary geotechnical engineering investigation. In addition, the U.S.D.A. soil survey data identifies surface clays from the Joshua loam within parts of the eastern side of the site. Accordingly, expansive clays may be encountered within some areas of the site. Where expansive soils are encountered, appropriate mitigation measures should be used, such as placement of a granular fill capping the expansive soils to reduce the potential for excessive heave.

5.3.3 Soil Corrosion: The risk of corrosion of construction materials relates to the potential for soil-induced chemical reaction. Corrosion is a naturally occurring process whereby the surface of a metallic structure is oxidized or reduced to a corrosion product such as iron oxide (i.e., rust). The metallic surface is attacked through the migration of ions and loses its original strength by the thinning of the member.

Soils make up a complex environment for potential metallic corrosion. The corrosion potential of a soil depends on numerous factors including soil resistivity, texture, acidity, field moisture and chemical concentrations. In order to evaluate the potential for corrosion of metallic objects in contact with the onsite soils, chemical testing of soil samples was performed by Moore Twining as part of this report. The test results are included in Appendix C of this report. Conclusions regarding the corrosion potential of the soils tested are included in the Conclusions and Recommendations section of this report based on the severity ratings listed in Table No. 1, below.

Table No. 1
Corrosion Severity Ratings

Soil Resistivity (ohm cm)	Corrosion Potential Rating
>20,000	Essentially non-corrosive
10,000 - 20,000	Mildly corrosive
5,000 - 10,000	Moderately corrosive
3,000 - 5,000	Corrosive
1,000 - 3,000	Highly corrosive
<1,000	Extremely corrosive

The results of soil sample analyses from our 2022 preliminary geotechnical engineering investigation indicate that the near-surface soils tested exhibit a "highly corrosive" corrosion potential to buried metal objects.

If the manufacturers or suppliers cannot determine if materials are compatible with the soil corrosion conditions, a professional consultant, i.e., a corrosion engineer, with experience in corrosion protection should be consulted to provide design parameters. Moore Twining does not provide corrosion engineering services.

5.3.4 Sulfate Attack of Concrete from Soils: Degradation of concrete in contact with soils due to sulfate attack involves complex physical and chemical processes. When sulfate attack occurs, these processes can reduce the durability of concrete by altering the chemical and microstructural nature of the cement paste. Sulfate attack is dependent on a variety of conditions including concrete quality, exposure to sulfates in soil, groundwater and environmental factors. The standard practice for geotechnical engineers in evaluation of the soils anticipated to be in contact with structural concrete is to perform laboratory testing to determine the concentrations of sulfates present in the soils. The test results are then compared with the exposure classes in Table 19.3.1.1 of ACI 318 to provide guidelines for concrete exposed to soils containing sulfates. It should be noted that other exposure conditions such as seawater or dissolved sulfates in water or materials other than soils can result in sulfate exposure categories to concrete that are higher than the concentrations of sulfate in soil. The design engineer will need to determine whether other potential sources of sulfate exposure need to be considered other than exposure to sulfates in soil. The sulfate exposure classes for soils from Table 19.3.1.1 are summarized in the below table.

Table No. 2
ACI Exposure Categories for Water Soluble Sulfate in Soils

Sulfate Exposure Class (per ACI 318)	Water Soluble Sulfate in Soil (Percent by Mass)
S0	Less than 0.10 Percent
S1	0.10 to Less than 0.20 Percent
S2	0.20 to Less than or Equal to 2.00 Percent
S3	Greater than 2.00 Percent

Common methods used to resist the potential for degradation of concrete due to sulfate attack from soils include, but are not limited to the use of sulfate-resisting cements, air-entrainment and reduced water to cement ratios. The laboratory test results from our 2022 preliminary geotechnical engineering investigation are included in Appendix C of this report. Conclusions regarding these sulfate test results are included in the Conclusions section of this report.

5.3.5 Conditional Geologic Hazards: Conditional geologic hazards, as identified in Section 31 of California Geological Survey Note 48 are discussed in the following subsections.

5.3.5.1 Hazardous Materials: Hazardous materials such as hydrogen-sulfide gas and tar seeps are not known to be present in the project area and are not considered to be a concern at the subject site.

5.3.5.2 Volcanic Activity: California includes six regions with a history of late Pleistocene volcanic eruptions that are subject to hazards from future eruptions (Miller, 1989). Of these six regions, the Amboy Crater, Lavic Lake area is the closest region, with the Rodman Mountains area within this region being located about 30¼ miles southeast of the site. Based on review of Plate 1 (Miller, 1989), the subject site is not located within any designated volcanic hazard zones (such as flowage, pyroclastic flows, debris flows, or ash fall hazards). The closest volcanic hazard to the site is indicated to be tephra hazards associated with basalt or basalt-andesite vents from an eruption in the Rodman Mountains Area, impacting areas greater than 24 miles southeast of the subject site, as measured from near the Kane Wash area on the northwest side of the Rodman Mountains.

Based on the distance of volcanic hazards from the site, the prospect for volcanic hazards to impact the site during the design life of the facility is considered low.

5.3.5.3 Flooding: Based on the Flood Insurance Rate Maps distributed by the Federal Emergency Management Agency, in general, the majority of the site is located in Zone X. According to Community Panel number 06071C3915J revised on September 2, 2016, Zone X is defined as "Areas determined to be outside the 0.2 percent annual chance floodplain." Where mapped, the base flood elevation for the special flood hazard area for the Mojave River is an elevation of 2,182 feet and the closest edge of this flood plane is shown to be about 0.4 miles north/northwest of the site. This based flood elevation of 2,182 feet for the Mojave River is 10 feet lower than the lowest portion of the site in the northeast corner of the site. The special flood hazard area for the Lenwood Channel is about 0.3 miles southeast of the site.

A small portion of the western side of the site is mapped as being located in Zone D which is defined as "Areas in which flood hazards are undetermined, but possible." Considering some of the younger deposits, including the Young Mixed Alluvial and Eolian deposits (Qyae) and the Young Mojave River deposits, unit 3 (Qymr3), mapped in the western portion of the site, there is potential for short term flood hazards in the lower western portions of the site.

In addition, seasonal washes were noted in the western area of the site. Accordingly, there is a potential for concentrated runoff from these washes to induce localized flooding if they remain uncontrolled as part of development. Site grading and drainage design should be developed in a manner to ensure the drainage from the washes does not impact the proposed development.

The California Department of Water Resources, Division of Safety of Dams website (https://fmds.water.ca.gov/maps/damim/) was reviewed for potential inundation at the site from breaches of dams in the surrounding area. Based on review of this website, the site is not located inside any inundation zones for catastrophic failure. The Policy Map HZ-3 Dam & Basin Hazards from the October 27, 2020 San Bernardino County Draft Countywide Plan also shows that the site is not located inside any inundation zones for catastrophic failure. Although the Division of Safety of Dams website shows that the Cedar Springs Dam and New Lake Arrowhead Dam would inundate the Mojave River in the event of catastrophic failure, the inundation does not show that it would spread to the subject site.

5.3.5.4 Tsunamis and Seiches: Tsunamis are waves generated in oceans from seismic activity. Due to the inland location of the site (97 miles northeast of the Pacific Ocean), tsunamis are not considered a significant hazard for the site.

A seiche is a wave generated by the periodic oscillation of a body of water whose period is a function of the resonant characteristics of the containing basin as controlled by its physical dimensions. These periods generally range from a few minutes to an hour or more. The site is not located near any large bodies of water, so seiches are not considered a significant hazard at the site.

5.3.5.5 Radon Gas: Naturally occurring radon gas is known to occur in some areas of California. Radon gas can accumulate in buildings and breathing air with elevated radon concentrations results in an increased risk of developing lung cancer. Radon gas forms from radioactive decay of small amounts of the elements uranium and thorium, naturally present in rocks and soils. Rock types, such as black shales, marine phosphatic rocks, and certain igneous rocks, are associated with relatively higher levels of radon gas than other rock types. These rock types are not known to be present near the ground surface at the project site.

The U.S. EPA recommends that individuals avoid long-term exposure to radon concentrations above 4 picocuries per liter. Based on our review of a database maintained by the California Department of Public Health Services (CDPH) on the California Geologic Survey website, the California Indoor Radon Levels Sorted By Zip Code, last updated February 2017, indicates that 2 of the 45 radon tests (4.4 percent) conducted within the same zip code as the subject site (92311) reported radon gas levels that did not exceed 4 picocuries per liter.

Considering the geologic conditions of the site area, the referenced data reported by the CDPH, and assuming that the buildings will be properly ventilated, it is our opinion that potential hazards associated with radon gas are low.

5.3.5.6 Naturally Occurring Asbestos: Asbestos occurs in soil and rock naturally in certain geologic settings in California. It has been documented that inhalation of asbestos fibers may cause negative health effects. Most commonly, asbestos is associated with serpentinite and partially serpentized ultramafic rocks. Ultramafic rocks are scattered throughout much of the Sierra Nevada mountain and Coast Ranges regions. Review of the referenced Open-File Report 2000-19, titled *A General Location Guide for Ultramafic Rocks in California - Areas More Likely to Contain Naturally Occurring Asbestos,* prepared by State of California Department of Conservation, Division of Mines and Geology, dated August, 2000, indicates the closest occurrence of ultramafic rocks are located about 128 miles northwest of the site.

Ultramafic rocks were not encountered during our 2022 preliminary geotechnical engineering investigation, not observed during the geologic site reconnaissance, and are not common to the geologic environment of the site. Based on the cited literature and our site observations, it is our opinion that the potential to encounter surface or near surface naturally occurring asbestos containing rock at the site is low.

5.3.5.7 Hydrocollapse: Some soils in the desert regions of California can be susceptible to hydrocollapse. Soils that are relatively dry and exhibit cementation can be susceptible to hydrocollapse when wetted. However, granular soils exhibiting cementation were not encountered in the borings drilled at the site during our 2022 preliminary geotechnical engineering investigation. Consolidation tests were conducted on the near surface Holocene age Young Mojave River deposits (poorly graded sands with silt) from relatively undisturbed samples collected from the borings drilled

at the subject site in 2022. Two (2) of the three (3) tests were conducted on lean clay with sand and lean clay samples which exhibited negligible collapse potential. However, one (1) of the three (3) tests was conducted on a poorly graded sand with silt sample and indicated slight collapse potential (1.2 percent collapse when wetted under a load of 2 kips per square foot). This value (with up to 1 to 5 percent collapse) is considered "Moderate Trouble" based on Figure No. 6 within Section 6 of Chapter 1 from NAVFAC, DM7.01. Although there is a potential for disturbance of the samples to impact the hydrocollapse indicated by the laboratory test results, due to the nature of the deposits and our experience, this report considers that the near surface granular soils tested are susceptible to hydrocollapse. It is anticipated that the near surface soils may be susceptible to hydrocollapse.

Thus, over-excavation and compaction of the near surface soils will likely be needed to reduce the potential for excessive hydrocollapse for structures in areas where soils are subject to collapse potential. Accordingly, impacts to structures as a result of hydrocollapse are anticipated to be low after the appropriate site preparation is conducted.

5.3.5.8 Regional Subsidence: An online map (https://ca.water.usgs.gov/land_subsidence/california-subsidence-areas.html), "Areas of Land Subsidence in California," on a USGS website, indicates that the Barstow and Lenwood areas are not located in a mapped subsidence area for groundwater pumping, peat loss or oil extraction. Thus, regional subsidence is not considered a concern for this project.

5.3.5.9 Clays and Cyclic Softening: Clay soil layers were encountered in some of the borings drilled during our 2022 preliminary geotechnical engineering investigation. However, based on the depth to groundwater and the very stiff to hard nature of the sandy lean clays, lean clays with sand, and lean clays encountered, cyclic softening of clays is not anticipated to be a hazard.

5.4 Seismic Hazards: The potential for fault ground rupture, seismic groundshaking and seismic coefficients/earthquake spectral response acceleration design values, and liquefaction and seismic settlement are described in the following subsections.

5.4.1 Active Faulting and Surface Fault Rupture: Earthquakes are caused by the sudden displacement of earth along faults with a consequent release of stored strain energy. The fault slippage can often extend to the ground surface where it manifests in abrupt relative ground displacement across a rupture surface. Damage resulting directly from fault rupture ground displacement occurs only where structures are located astride a rupture surface with relative displacement.

The project site is not located in an Alquist-Priolo Earthquake Fault Zone mapped by the California Geological Survey, nor a San Bernardino County designated fault zone (based on the San Bernardino County Land Use Plan, Geologic Hazard Overlays).

The locations of active faults near the site were evaluated based on the Fault Activity Map of California: California Geological Survey, Geologic Data Map No. 6, prepared by Jennings and Bryant. The Fault Activity Map of California identifies an active, creeping segment of the Lenwood-Lockhart fault zone (Lenwood fault) mapped in close proximity southeast of the southeastern corner of the site. This shallow linear swale and segment of the Lenwood fault was identified offsite, beginning about 300 feet east of the southeast corner of the subject site. The location of this feature is shown on Photograph Nos. 5 and 6 in Appendix E of this report.

A map depicting the major active faults in the vicinity of the site is included on Drawing No. 4 in Appendix A of this report. In addition, a closeup map of the site showing the Lenwood-Lockhart fault zone is shown on Drawing No. 3 in Appendix A of this report. Detailed descriptions of the Lenwood-Lockhart fault zone from published literature is included in section 4.2 of this report.

The nearest mapped, active fault with traditional surface rupture is a section of the Lenwood-Lockhart fault zone (Lenwood fault) further southeast of the site, about 2.2 miles from the site. These nearby segments of the Lenwood fault were observed and discussed in detail in the Geologic Site Reconnaissance (Section 4.3) of this report. Refer also to Photograph Nos. 1 through 4 in Appendix E of this report.

A concealed, potentially active fault (Lockhart fault) associated with the Lenwood-Lockhart fault zone is mapped about 1 mile to the northwest where it trends across the Mojave River.

The approximate locations of these fault sections are shown on Drawing Nos. 3 and 4 in Appendix A of this report, and the offsite, shallow linear swale and segment of the Lenwood fault directly east of the southeast corner of the site and extending further to the southeast is also shown on Drawing No. 7 in Appendix A of this report based on site observations during the geologic site reconnaissance. The nearby faults shown on the U.S. Quaternary Fault map prepared by the United States Geological Survey are similar to the faults shown on the Fault Activity Map of California.

The geologic site reconnaissance discussed in Section 4.3 of this report indicated that there was no evidence of faulting noted at the ground surface across the subject site. Based on the literature reviewed regarding the Lenwood-Lockhart fault zone and the geologic site reconnaissance discussed in this report, since active faults are not mapped within the site and were not observed at the subject site, the potential for surface rupture due to a known active fault appears to be low. However, potential impacts from the adjacent Lenwood fault section are recommended to be evaluated if a future structure is planned within a hypothetical northwest extension of the Lenwood fault section within the limits shown on Drawing No. 3 in Appendix A of this report.

5.4.2 Groundshaking: For any given earthquake, the rock in the immediate vicinity will respond with a certain maximum acceleration and with a predominant period that depends on the nature of the rock and the source mechanism. Away from the focus of the earthquake, the ground motions begin to attenuate. The way in which the earthquake wave is altered depends to a great degree on source characteristics and to a lesser degree on the travel path.

A summary of our review of historic seismic activity relative to the site is included below.

5.4.2.1 Historic Seismic Activity: The general site region has experienced recurring seismic activity. Based on historical earthquake data obtained from the U.S. Geological Survey's earthquake database system, approximately 64 historical earthquakes with magnitude 4.5 or greater have been recorded from 1900 through May 21, 2024, within about 50 miles of the site. A map showing the location of the project site with relation to the approximate historical earthquake epicenter locations and magnitude category is presented on Drawing No. 6 in Appendix A of this report.

The nearest earthquake event (estimated magnitude of 4.8) found during the search occurred on August 5, 1992, approximately 11¼ miles northeast of the site. The nearest earthquake event also had the highest peak horizontal ground acceleration at the subject site (0.092g). The largest magnitude earthquake identified within the 50 mile radius search at the site resulting from the historic earthquakes both occurred during the 6.5 magnitude Manix earthquake (0.086g) which also occurred on April 10, 1947, along the Manix fault, located approximately 33¾ miles northeast of the site. However, it should be noted that the 7.3 magnitude Landers earthquake (discussed in section 4.2 of this report) occurred on June 28, 1992 just outside the search radius (about 61 miles southeast of the site) and had a peak horizontal acceleration of about 0.135g based on the peak ground acceleration shown in the Barstow area on the Shake-Map.

5.4.2.2 Design Seismic Ground Motion Parameters and Site Class: Seismic coefficients and spectral response acceleration values were developed for design as required by the 2022 California Building Code (CBC). The CBC methodology for determining design ground motion values is based on U.S Geological Survey seismic hazard maps, which incorporate both probabilistic and deterministic seismic ground motion.

The site is classified as a stiff soil (Site Class D) site with standard penetration resistance, N-values averaging between 15 and 50 blows per foot for the upper 100 feet BSG.

A Maximum Considered Earthquake (geometric mean) peak ground acceleration adjusted for site effects (PGA_M) of 0.604g was determined for the site using the Ground Motion Parameter Calculator provided by the Structural Engineers Association of California website (https://seismicmaps.org/).

The following mapped seismic factors were developed for the site using the Ground Motion Parameter Calculator provided by SEOAC and OSHPD (http://seismicmaps.org), based upon a site latitude of 34.890243 degrees and a site longitude of -117.114299 degrees. The data provided in

Table No. 3 are based upon the procedures of the 2022 California Building Code, ASCE 7-16 and Supplement No. 1 to ASCE 7-16. The data in Table No. 3 were not determined based upon a ground motion hazard analysis. If required, Moore Twining should be notified and requested to conduct the additional analysis, develop updated seismic factors for the project, and update the following values.

Table No. 3
Seismic Factors

Seismic Factor	2022 CBC Value*
Site Class	D
Maximum Considered Earthquake (geometric mean) peak ground acceleration adjusted for site effects (PGA_M)	0.604
Mapped Maximum Considered Earthquake (geometric mean) peak ground acceleration, (PGA)	0.549
Spectral Response At Short Period (0.2 Second), Ss	1.248
Spectral Response At 1-Second Period, S_1	0.436
Site Coefficient (based on Spectral Response At Short Period), Fa	1.001
Site Coefficient (based on spectral response at 1-second period) Fv	see note
Maximum considered earthquake spectral response acceleration for short period, S_{MS}	1.249
Maximum considered earthquake spectral response acceleration at 1 second, S_{M1}	see note
Five percent damped design spectral response accelerations for short period, S_{DS}	0.833
Five percent damped design spectral response accelerations at 1-second period, S_{D1}	see note

Note 1: Requires ground motion hazard analysis per ASCE Section 21.2 (ASCE 7-16, Section 11.4.8), unless the structural engineer determines that an exception of Section 11.4.8 of ASCE 7-16 is applicable for the project design.

* The above data is subject to the disclaimers listed in the website https://seismicmaps.org/

5.4.3 Liquefaction and Seismic Settlement: Liquefaction and seismic settlement are conditions that can occur under seismic shaking from earthquake events. Liquefaction describes a phenomenon in which a saturated, cohesionless soil loses strength during an earthquake as a result of induced shearing strains. Lateral and vertical movements of the soil mass, combined with loss of bearing usually results. Fine, well sorted, loose sand, shallow groundwater conditions, higher intensity earthquakes, and particularly long duration of ground shaking are the requisite conditions for liquefaction.

Due to the depth to groundwater at the site, liquefaction is not considered a potential impact to site development. Liquefaction and seismic settlement analyses were conducted based on soil properties revealed by boring B-2 (drilled to 35½ feet BSG) in accordance with the NCEER methods (Youd, et al.) using the computer program LiquefyPro, developed by CivilTech Software. A Maximum Considered Earthquake (geometric mean) peak ground acceleration adjusted for site effects (PGA_M) of 0.604g was determined for the site using the Ground Motion Parameter Calculator provided by SEOAC and OSHPD (http://seismicmaps.org). A Maximum Considered Earthquake magnitude of 7.45 was applied in the analysis based on deaggregation analysis (United States Geological Survey deaggregation website, Dynamic Conterminous U.S. 2014, Update). A groundwater depth of 51 feet was used for the analysis based on historical groundwater data from a nearby well.

The liquefaction analysis indicates that the sandy silt soils encountered from 10 to 15 feet BSG and the poorly graded sands encountered from 30 to 35 feet BSG from boring B-2 would be subject to dry seismic settlement. The results indicate that there is potential for seismic induced settlement of damp to dry sandy soils as a result of the design level seismic event (such as those encountered at the location of borings B-2 and B-3). The results of the analyses indicate total seismic settlements would be about ¾ inch. This magnitude of seismic settlement is not typically considered a concern for the type of structures contemplated at the site.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of this geologic-seismic hazards investigation, the following conclusions were prepared.

6.1 Based on the findings of this investigation, the site is considered suitable for the proposed development from a geologic standpoint. Based on our review of stereo pair aerial photographs and the geologic site reconnaissance, evidence of faulting along the Lenwood fault was indicated southeast of the subject site where an active portion of the fault had been mapped by the U.S. Geological Survey and California Geological Survey, but no evidence of active faulting was found within the subject site. However, potential impacts from the adjacent Lenwood fault section are recommended to be evaluated by subsurface fault exploration if a future structure is planned within a hypothetical northwest extension of the Lenwood fault section within the limits shown on Drawing No. 3 in Appendix A of this report. Based on our review of other potential geologic and seismic hazards, no other significant potential hazards were identified, with exception of the potential short term flood hazards expansive soils, and the potential for collapsible soils as noted below.

6.2 A small portion of the western side of the site is mapped as being located in Zone D which is defined as "Areas in which flood hazards are undetermined, but possible." Considering some of the younger deposits, including the Young Mixed Alluvial and Eolian deposits (Qyae) and the Young Mojave River deposits, unit 3 (Qymr3), mapped in the western portion of the site, there is potential for short term flood hazards in the lower western portions of the site. A civil engineer would need to evaluate the site elevations and drainage ways in order to determine the measures required to address flood hazards for the site development. In addition, there is a potential for concentrated runoff from the washes to induce localized flooding if they remain as uncontrolled drainage as part of development. Site grading and drainage design should be developed in a manner to ensure the drainage from the washes does not impact the proposed development.

6.3 Clay soils with medium plasticity were encountered as shallow as 3½ feet in one of the borings drilled during our 2022 preliminary geotechnical engineering investigation. In addition, the U.S.D.A. soil survey data identifies surface clays from the Joshua loam within parts of the eastern side of the site. Accordingly, expansive clays may be encountered within some areas of the site. Where expansive soils are encountered, appropriate mitigation measures should be used, such as placement of a granular fill capping the expansive soils to reduce the potential for excessive heave in accordance with the recommendations of a geotechnical engineering investigation.

6.4 The near surface soils may be susceptible to hydrocollapse. Thus, over-excavation and compaction of the near surface soils will likely be needed to reduce the potential for excessive hydrocollapse for structures in areas where soils are subject to collapse potential. The subgrade soils should be prepared in accordance with recommendations from a geotechnical engineering investigation. Accordingly, impacts to structures as a result of hydrocollapse are anticipated to be low after the appropriate site preparation is conducted.

6.5 Exposed beds of volcanic rock of the Barstow Formation were noted during the geologic site reconnaissance along the top of four (4) different ridges at the site where strike and dip bedding attitudes were measured and noted on Drawing No. 7 in Appendix A of this report and also on Photograph No. 17 in Appendix E of this report. The interpreted volcanic rock areas are shown in general on the cross sections included as Drawing Nos. 8 and 9 in Appendix A of this report. The volcanic rock is anticipated to be difficult to excavate and anticipated to break up into oversize pieces of rock when excavated. Specialized equipment and methods would be anticipated to excavate the volcanic rock materials. In addition, oversize rock would need to be reduced in size in order to be reused as engineered fill for the proposed development.

6.6 Based on the corrosion severity ratings shown in Table No. 1, the soils tested from our 2022 preliminary geotechnical engineering investigation exhibit a “highly corrosive” corrosion potential. Therefore, buried metal objects should be protected in accordance with the manufacturer's recommendations based on a “highly corrosive” corrosion potential. The evaluation was limited to the effects of soils to metal objects; corrosion due to other potential sources, such as stray currents and groundwater, was not evaluated. If piping or concrete are placed in contact with deeper soils or engineered fill, these soils should be analyzed to evaluate the corrosion potential of these soils. Additional laboratory testing should be performed during a design level geotechnical engineering investigation.

6.7 Based on the laboratory testing from our 2022 preliminary geotechnical engineering investigation for soluble sulfates in soil, the results indicate an exposure category S0 in accordance with Table 19.3.1.1 of ACI 318, with a low potential for sulfate attack on concrete.

7.0 NOTIFICATION AND LIMITATIONS

7.1 The conclusions and recommendations presented in this report are based on our evaluation of the geologic and seismic hazards and the results of the field and laboratory investigation from our 2022 preliminary geotechnical engineering investigation.

7.2 This report presents the results of a geologic/seismic hazards investigation only and should not be construed as a geotechnical engineering investigation or an environmental audit or study. As noted in this report, when site plan is developed identifying the locations and type of structures planned for the project, this information should be provided to Moore Twining in order to develop a scope of work and estimate for a design level geotechnical investigation.

7.3 The conclusions contained in this report are valid only for the project discussed in the Background Information section of this report. The use of the information contained in this report for structures on this site not discussed herein or for structures on other sites not discussed in this report is not recommended. The entity or entities that use or cause to use this report or any portion thereof for another structure or site not covered by this report shall hold Moore Twining, its officers and employees harmless from any and all claims and provide Moore Twining's defense in the event of a claim.

7.4 This report is issued with the understanding that it is the responsibility of the client to transmit the information and conclusions and recommendations in this report to developers, owners, buyers, architects, engineers, designers, contractors, subcontractors, and other parties having interest in the project so that the steps necessary for consideration in the design, construction and maintenance of the project are taken by the appropriate party.

7.5 Our professional services were performed, our findings obtained, and our conclusions and recommendations were prepared in accordance with generally-accepted engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied.

7.6 Reliance on this report by a third party (i.e., that is not a party to our written agreement) is at the party's sole risk. If the project and/or site are purchased by another party, the purchaser must obtain written authorization and sign an agreement with Moore Twining in order to rely upon the information provided in this report for design or construction of the project.

8.0 CLOSING

We appreciate the opportunity to be of service. If you have any questions regarding this report, or if we can be of further assistance, please contact us at your convenience.

Sincerely,
MOORE TWINING ASSOCIATES, INC.
Geotechnical Engineering Division

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Manager

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Miller, D.M, Langenheim, V.E., and Haddon, E.K., The Geologic Map and Borehole Stratigraphy of Hinkley Valley and Vicinity, San Bernardino County, California, 2020

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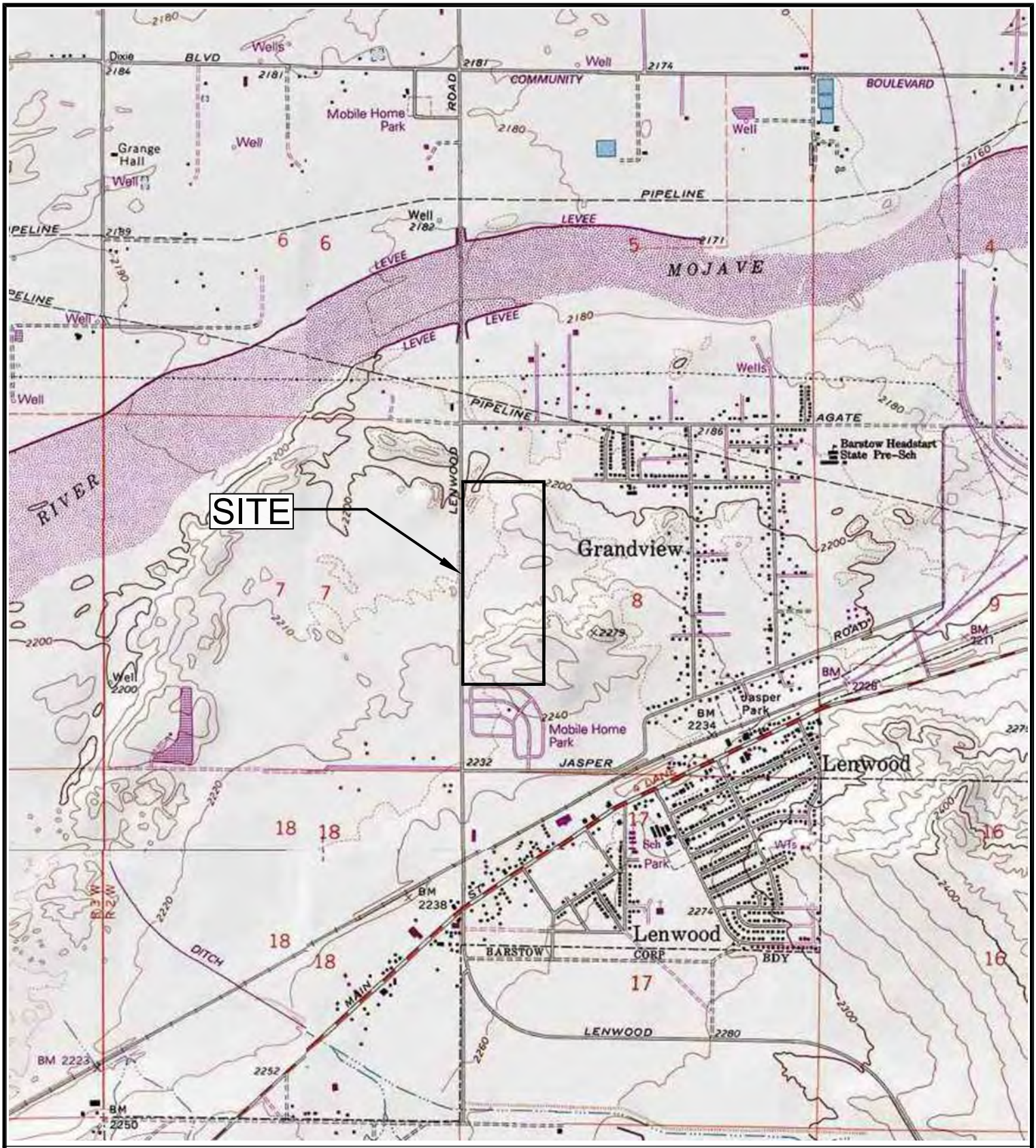
APPENDIX A

DRAWINGS

Drawing No. 1 - Site Location Map
Drawing No. 2 - Test Boring Location Map
Drawing No. 3 - Map of Active and Potentially Active Faults Relative to Site
Drawing No. 4 - Regional Map of Active and Potentially Active Faults Relative to Site
Drawing No. 5 - Regional Geologic Map
Drawing No. 6 - Historical Earthquake Epicenter Map
Drawing No. 7 - Site Geologic Map
Drawing No. 8 - Soil Profile Cross Section A-A’
Drawing No. 9 - Soil Profile Cross Section B-B’



SOURCE: U.S.G.S. TOPOGRAPHIC MAP, 7 ½ MINUTE SERIES
BARSTOW, CALIFORNIA QUADRANGLE 1993

0 2000
APPROXIMATE SCALE IN FEET

SITE LOCATION MAP
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
APN 0497-142-04, 0497-142-03, 0497-142-15, AND 0497-142-14
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

FILE NO.:	DATE:
07603-02-01	07/27/2022
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07603.02	DRAWING NO. 1

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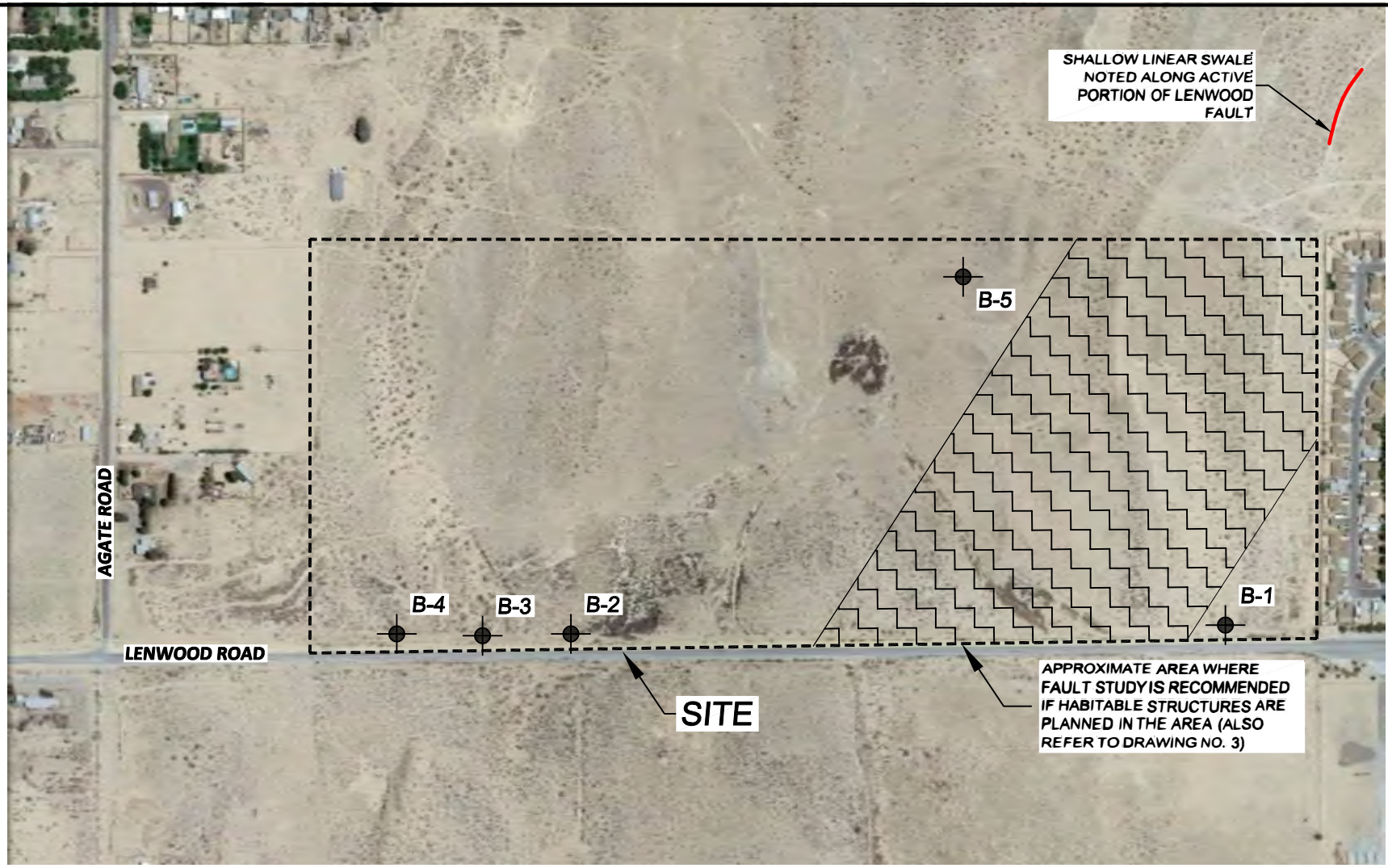


APPROXIMATE TEST BORING LOCATION FROM PRELIMINARY GEOTECHNICAL ENGINEERING REPORT

N

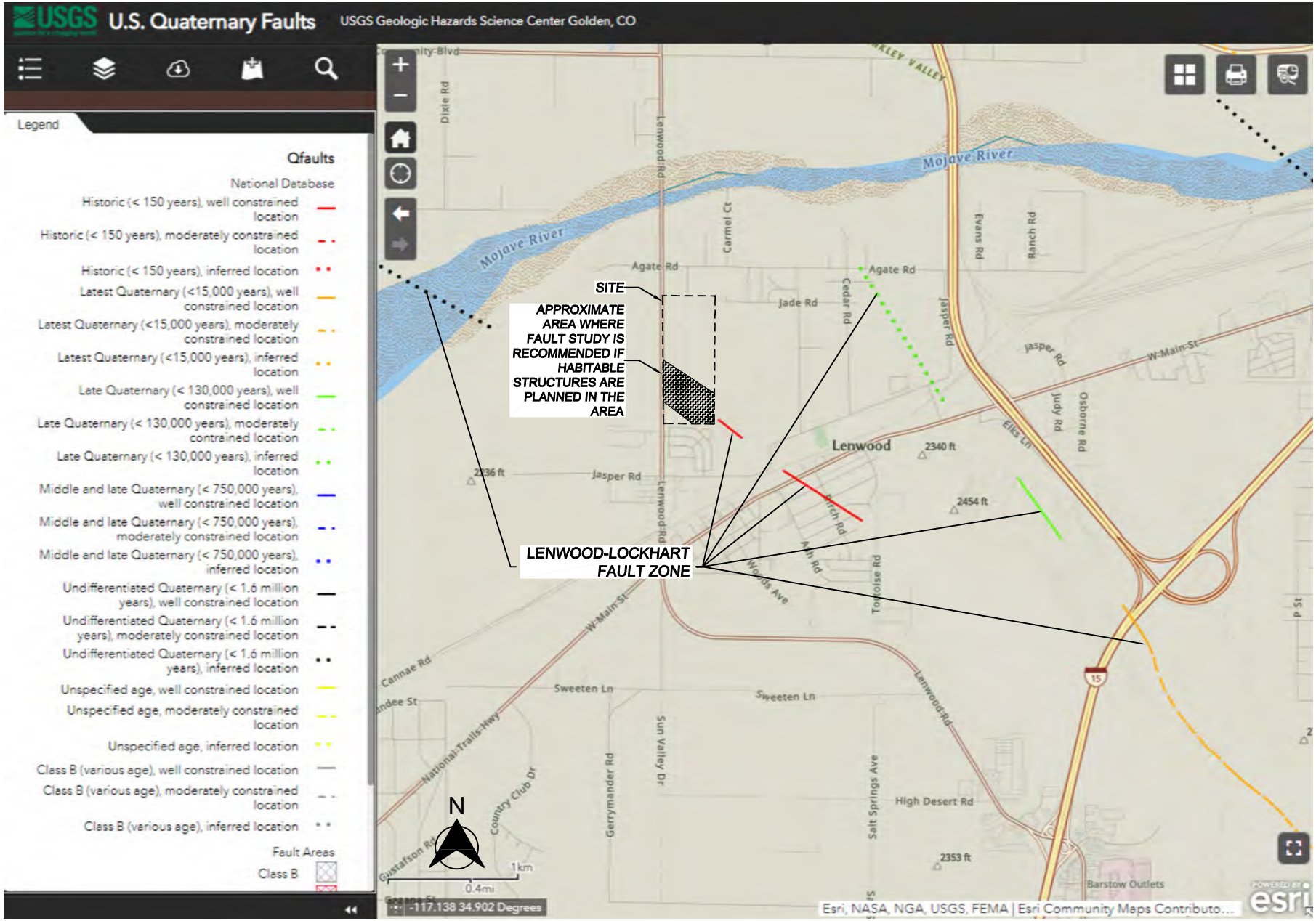
0 500

APPROXIMATE SCALE IN FEET

TEST BORING LOCATION MAP
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

FILE NO. 07603-02-02	DATE DRAWN: 05/28/2024
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07604.02	DRAWING NO. 2

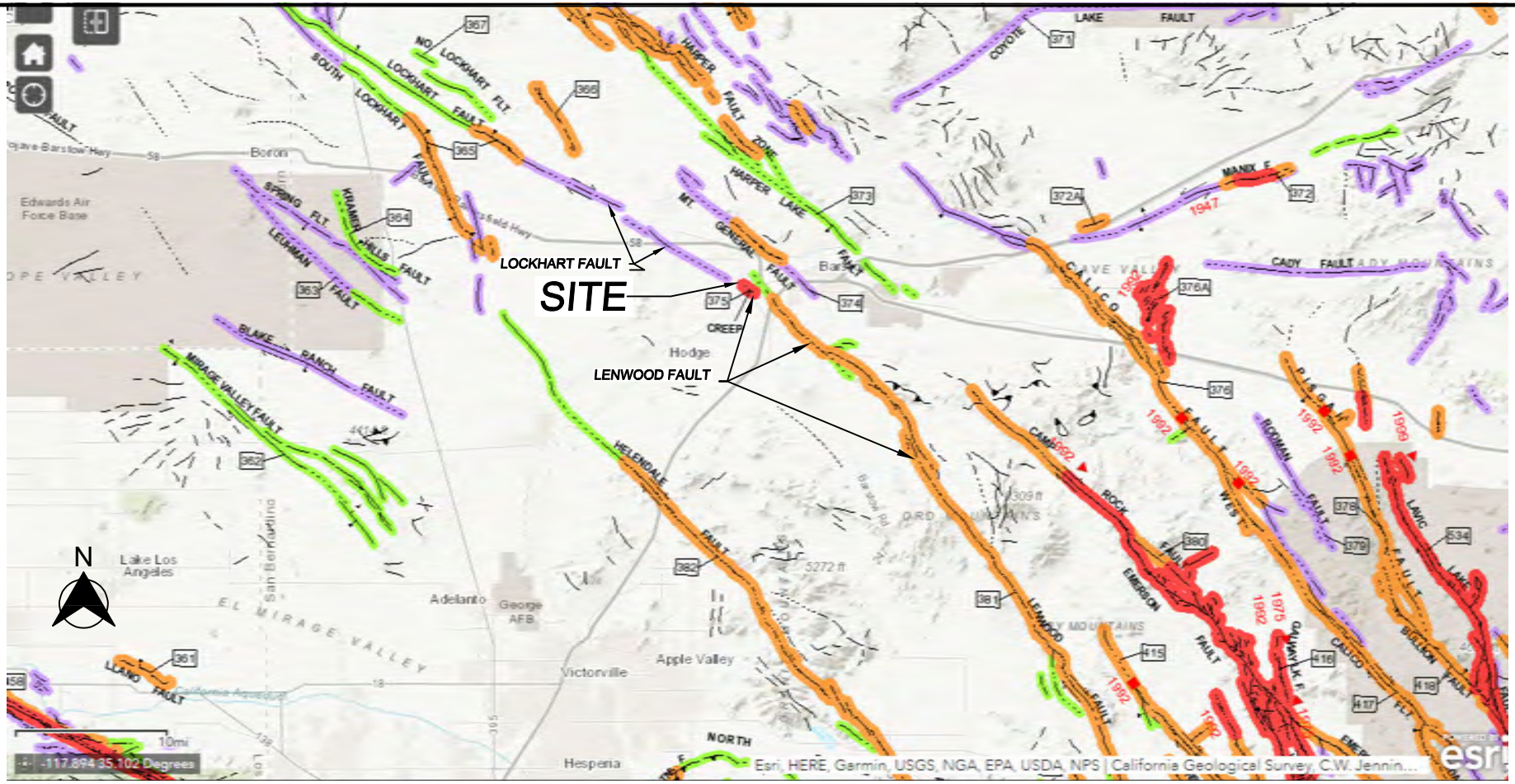
MOORE TWINING ASSOCIATES, INC.



MAP OF ACTIVE AND POTENTIALLY ACTIVE FAULTS RELATIVE TO SITE
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

FILE NO. 07603-02-02	DATE DRAWN: 05/28/2024
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07603.02	DRAWING NO. 3

MOORE TWINING ASSOCIATES, INC.
Since 1898



LEGEND

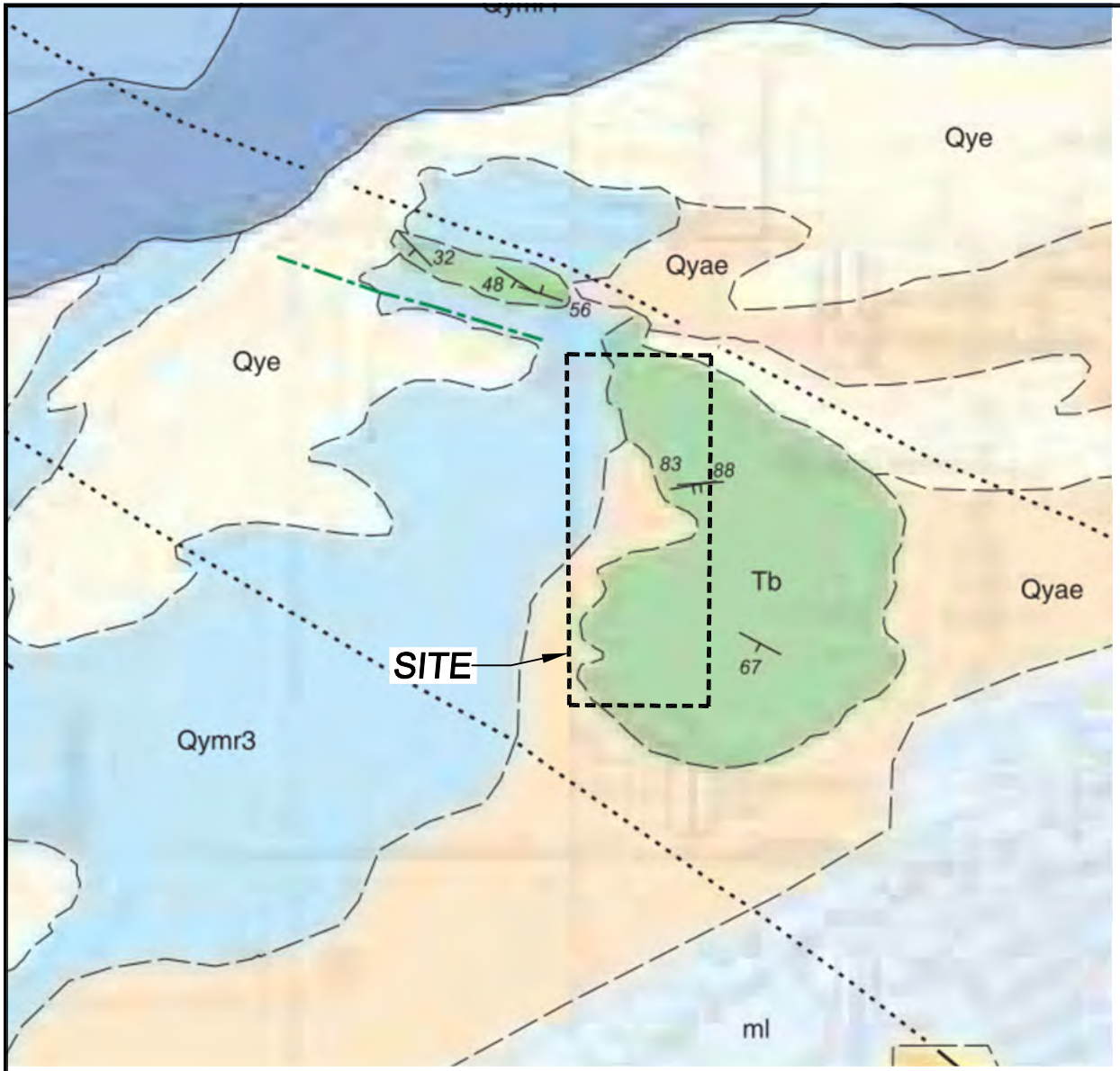
- **Fault along which historic (last 200 years) displacement has occurred**
- **Holocene fault displacement (during past 11,700 years) without historic record**
- **Late Quaternary fault displacement (during past 700,000 years)**
- **Quaternary fault (age undifferentiated)**

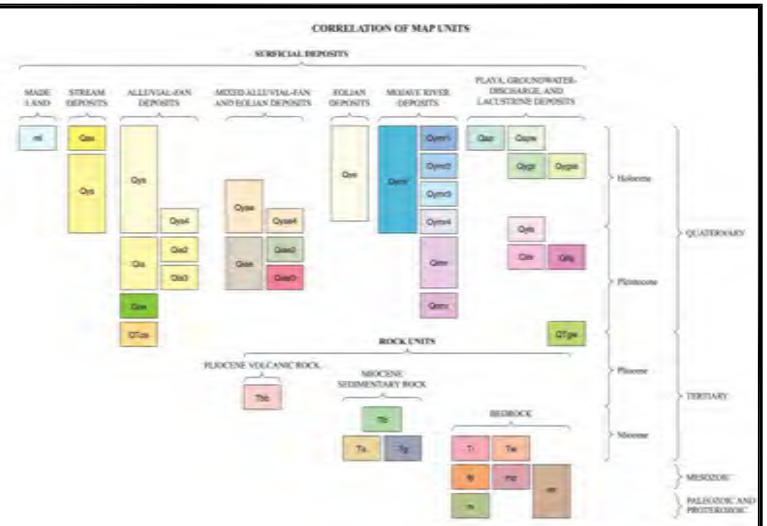
REFERENCE: JENNINGS, CW., AND BRYANT, W.A., 2010 FAULT ACTIVITY MAP OF CALIFORNIA: CALIFORNIA GEOLOGICAL SURVEY, GEOLOGIC DATA MAP NO. 6

REGIONAL MAP OF ACTIVE AND POTENTIALLY ACTIVE FAULTS RELATIVE TO SITE
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

FILE NO. 07603-02-02	DATE DRAWN: 05/28/2024
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07603.02	DRAWING NO. 4

MOORE TWINING ASSOCIATES, INC.
Since 1898





MIXED ALLUVIAL-FAN AND EOLIAN DEPOSITS

Qyae **Young mixed alluvial and eolian deposits (Holocene to latest Pleistocene)**—Deposit consists of alluvial and eolian sediments that are thoroughly mixed. These units are found mainly in the northeastern part of the map area, where significant eolian contribution stems from Harper Lake and local playas. Deposits are moderately sorted to well-sorted sand and gravel. Sediments are typically loose. Soil development and desert pavement are similar to or less pronounced than that exhibited by correlative alluvial-fan units. Deposits form more muted topographic surfaces than alluvial-fan surfaces lacking significant eolian sand. Surfaces are sparsely vegetated, generally supporting creosote bush, white bursage, and perennial grasses. Deposits grade complexly toward eolian-sand sources by increase of sand component and decrease of discrete alluvial beds

Qymr3 **Young Mojave River deposits, unit 3 (middle Holocene)**—Arkosic gravel, sand, and silt with reddish quartzite pebbles. Well bedded with typical fluvial stream-deposit characteristics, such as normal grading, cross-beds, and less common crevasse splay and floodplain sediment. Deposit displays bar and swale topography, lies 1–2 m above modern river channel elevation

MIOCENE SEDIMENTARY ROCK

Tb **Barstow Formation (Miocene)**—Sandstone, siltstone, and limestone in the Mud Hills area of the type Barstow Formation (MacFadden and others, 1990). Consists of sandstone, siltstone, limestone, and minor volcanic rocks near Lenwood. Rocks in type section are older than 19 Ma to as young as ~14 Ma (MacFadden and others, 1990)

EXPLANATION OF MAP SYMBOLS

Contact—Solid where location certain; dashed where location approximate

Quaternary fault—Solid where existence certain, location certain; dashed where existence probable, location approximate; dotted where existence probable, location concealed; queried where questionable

N

0 1600

APPROXIMATE SCALE IN FEET

REFERENCE: GEOLOGIC MAP AND BOREHOLE STRATIGRAPHY OF HINKLEY VALLEY AND VICINITY, SAN BERNARDINO COUNTY, CALIFORNIA

REGIONAL GEOLOGIC MAP
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

FILE NO. 07603-02-02	DATE DRAWN: 05/28/2024
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07603.02	DRAWING NO. 5

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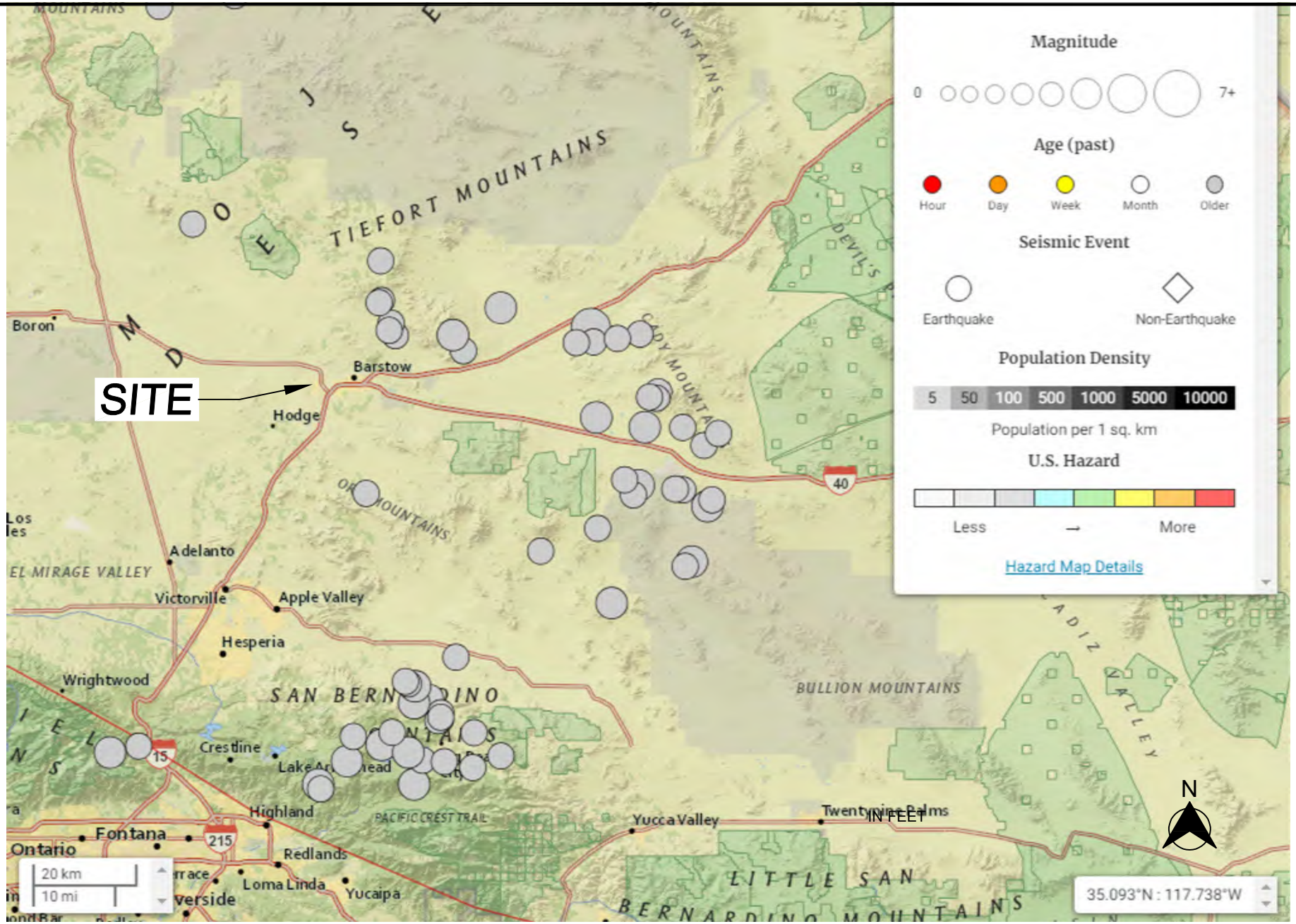

HISTORICAL EARTHQUAKE EPICENTER
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

FILE NO. 07603-02-02	DATE DRAWN: 05/28/2024
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07603.02	DRAWING NO. 6

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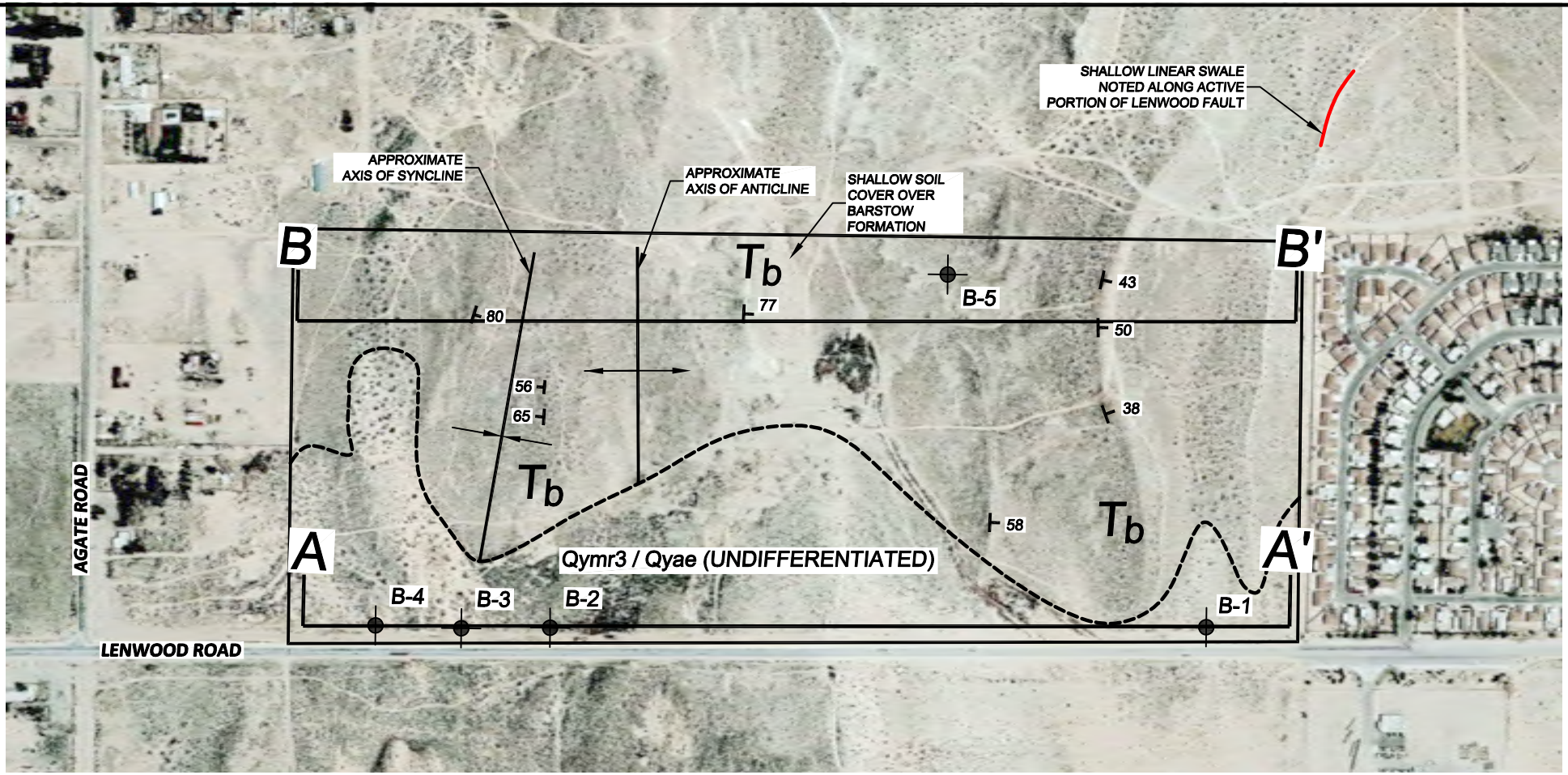


REFERENCE: GEOLOGIC MAP AND BOREHOLE STRATIGRAPHY OF HINKLEY VALLEY AND VICINITY, SAN BERNARDINO COUNTY, CALIFORNIA (GEOLOGIC CONTACTS MODIFIED PER GEOLOGIC SITE RECONNAISSANCE AND REVIEW OF AERIAL PHOTOGRAPH OF SITE)

T_b : Barstow Formation (Miocene)

Q_{yae} : Young mixed alluvial and eolian deposits (Holecene to latest Pleistocene)

Q_{ymr3} : Young Mojave River deposits, unit 3 (middle Holocene)

APPROXIMATE TEST BORING LOCATION

A A' CROSS SECTION

EXPLANATION OF MAP SYMBOLS

Contact—Solid where location certain; dashed where location approximate

Quaternary fault—Solid where existence certain, location certain; dashed where existence probable, location approximate; dotted where existence probable, location concealed; queried where questionable

N

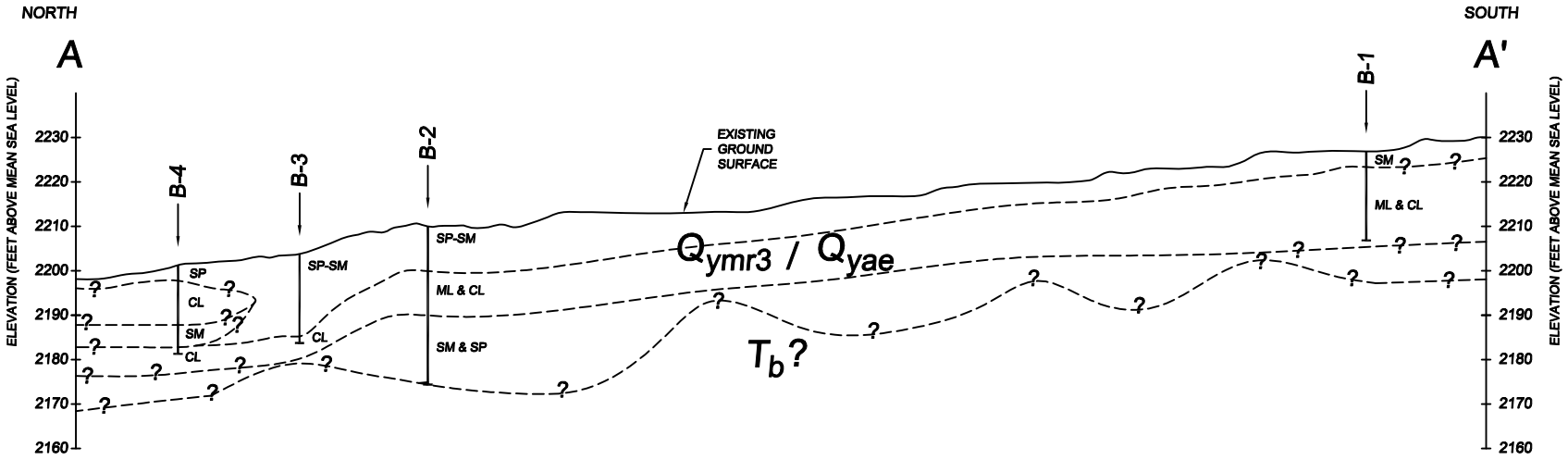
0 500

APPROXIMATE SCALE IN FEET

SITE GEOLOGIC MAP
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

FILE NO. 07603-02-02	DATE DRAWN: 05/28/2024
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07603.02	DRAWING NO. 7

MOORE TWINING ASSOCIATES, INC.



GEOLOGIC UNITS:

T_b : Barstow Formation (Miocene)

Q_{yae}: Young mixed alluvial and eolian deposits (Holecene to latest Pleistocene)

Q_{ymr3}: Young Mojave River deposits, unit 3 (middle Holocene)

SOIL CLASSIFICATION:

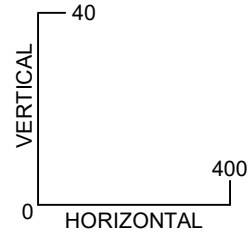
SP: POORLY GRADED SAND

SP-SM: POORLY GRADED SAND WITH SILT

SM: SILTY SAND

ML: SANDY SILT

CL: LEAN CLAY, LEAN CLAY WITH SAND, AND SANDY LEAN CLAY



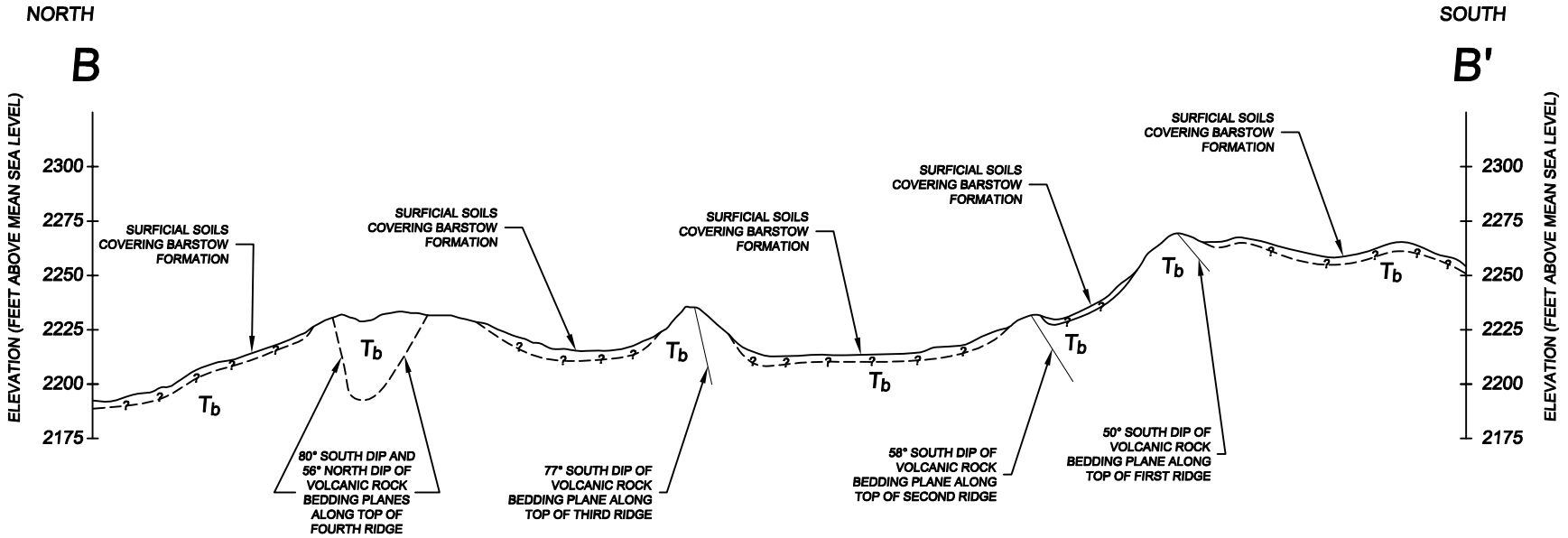
VERTICAL EXAGGERATION: 10X

APPROXIMATE SCALE IN FEET

CROSS SECTION A-A'
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

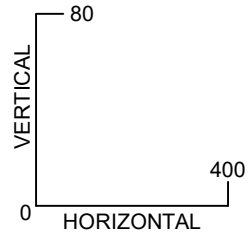
FILE NO. 07603-02-02	DATE DRAWN: 05/28/2024
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07603.02	DRAWING NO. 8

MOORE TWINING ASSOCIATES, INC.



GEOLOGIC UNITS:

T_b : Barstow Formation (Miocene)



VERTICAL EXAGGERATION: 5X

APPROXIMATE SCALE IN FEET

CROSS SECTION B-B'
PROPOSED ELECTRIC CHARGING TRUCK STATION WITH TRAVEL CENTER
SEC OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, SAN BERNARDINO COUNTY, CALIFORNIA

FILE NO. 07603-02-02	DATE DRAWN: 06/25/2024
DRAWN BY: RM	APPROVED BY:
PROJECT NO. H07603.02	DRAWING NO. 9

MOORE TWINING ASSOCIATES, INC.

APPENDIX B

LOGS OF BORINGS
FROM 2022 PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION

This appendix contains the final logs of borings. These logs represent our interpretation of the contents of the field logs and the results of the field and laboratory tests.

The logs and related information depict subsurface conditions only at these locations and at the particular time designated on the logs. Soil conditions at other locations may differ from conditions occurring at these test boring locations. Also, the passage of time may result in changes in the soil conditions at these test boring locations.

In addition, an explanation of the abbreviations used in the preparation of the logs and a description of the Unified Soil Classification System are provided at the end of Appendix B.

MOORE TWINING ASSOCIATES, INC.

Test Boring: B-1

Project: Proposed Electric Charging Truck Station with Travel Center

Project Number: H07603.02

Drilled By: James C.

Drill Type: CME 75

Auger Type: 6-5/8-Inch Hollow Stem Auger

Hammer Type: 140 Pound Auto Trip

Logged By: Jordi F.

Date: June 30, 2022

Elevation: N/A

Depth to Groundwater First Encountered During Drilling: N/E

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	Remarks	N-Values blows/ft.	Moisture Content %
0	2/6 7/6 10/6	SM	SILTY SAND; medium dense, moist, fine to medium grained, light brown, trace gravel		17	2.0
5	7/6 9/6 16/6	ML	SANDY SILT; very stiff, moist, low plasticity, grayish brown	+4=0.3% Sand=41.9% -200=57.8% Non-Viscous Non-Plastic	25	9.1
10	44/6 50/2	CL	SANDY LEAN CLAY; hard, moist, low plasticity, brown	DD=95.2 pcf	> 50	10.6
15	12/6 23/6 50/4		Decrease in sand content, increase in plasticity		> 73	
20	21/6 43/6 50/5		Increase in moisture content, iron oxide staining		> 93	
25			Bottom of boring B-1 at 20 feet			

Notes:

Figure Number

MOORE TWINING ASSOCIATES, INC.

Test Boring: B-2

Project: Proposed Electric Charging Truck Station with Travel Center

Project Number: H07603.02

Drilled By: James C.

Drill Type: CME 75

Auger Type: 6-5/8-Inch Hollow Stem Auger

Hammer Type: 140 Pound Auto Trip

Logged By: Jordi F.

Date: June 30, 2022

Elevation: N/A

Depth to Groundwater First Encountered During Drilling: N/E

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	Remarks	N-Values blows/ft.	Moisture Content %
0	10/6 16/6 13/6	SP-SM	POORLY GRADED SAND WITH SILT; medium dense, damp, fine to coarse grained, light brown	+3=0.3% Sand=88.4% -200=11.3%	27	0.5
5	11/6 13/6 13/6		Increase in fines content	DD=105.2 pcf	26	6.1
10	3/6 3/6 3/6	ML	SANDY SILT; soft, moist, non plastic, dark brown		6	8.4
15	8/6 14/6 15/6	CL	SANDY LEAN CLAY; very stiff, moist, low to medium plasticity, dark brown		29	9.9
20	11/6 13/6 10/6	SM	SILTY SAND; medium dense, moist, fine to coarse grained, dark brown		23	
25	14/6 21/6 18/6	SP	POORLY GRADE SAND; dense, damp, fine to coarse grained, light brown, trace gravel		39	

Notes:

Figure Number

MOORE TWINING ASSOCIATES, INC.

Test Boring: B-2

Project: Proposed Electric Charging Truck Station with Travel Center

Project Number: H07603.02

Drilled By: James C.

Drill Type: CME 75

Auger Type: 6-5/8-Inch Hollow Stem Auger

Hammer Type: 140 Pound Auto Trip

Logged By: Jordi F.

Date: June 30, 2022

Elevation: N/A

Depth to Groundwater First Encountered During Drilling: N/E

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	Remarks	N-Values blows/ft.	Moisture Content %
30	9/6 10/6 9/6		Medium dense, increase in fines content		19	
35	50/4	SC	CLAYEY SAND; very dense, moist, fine to coarse grained, grayish brown, trace gravel		> 50	
40			Refusal at boring B-2 at 35.5 feet			
45						
50						
55						

Notes:

Figure Number

MOORE TWINING ASSOCIATES, INC.

Test Boring: B-3

Project: Proposed Electric Charging Truck Station with Travel Center

Project Number: H07603.02

Drilled By: James C.

Drill Type: CME 75

Auger Type: 6-5/8-Inch Hollow Stem Auger

Hammer Type: 140 Pound Auto Trip

Logged By: Jordi F.

Date: June 30, 2022

Elevation: N/A

Depth to Groundwater First Encountered During Drilling: N/E

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	Remarks	N-Values blows/ft.	Moisture Content %
0	4/6 7/6 6/6	SP-SM	POORLY GRADED SAND WITH SILT; medium dense, moist, fine to medium grained, light brown	+4=0.2% Sans=91.7% -200=8.1%	13	2.3
5	2/6 9/6 11/6		Increase in fines content	DD=92.5 pcf	20	2.6
10	7/6 6/6 5/6		Dark brown		11	6.4
15	10/6 13/6 12/6		Increase in moisture content		25	
20	8/6 7/6 12/6	CL	SANDY LEAN CLAY; very stiff, moist, low plasticity, dark brown		19	
			Bottom of boring B-3 at 20 feet			
25						

Notes:

Figure Number

MOORE TWINING ASSOCIATES, INC.

Test Boring: B-4

Project: Proposed Electric Charging Truck Station with Travel Center

Project Number: H07603.02

Drilled By: James C.

Drill Type: CME 75

Auger Type: 6-5/8-Inch Hollow Stem Auger

Hammer Type: 140 Pound Auto Trip

Logged By: Jordi F.

Date: June 30, 2022

Elevation: N/A

Depth to Groundwater First Encountered During Drilling: N/E

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	Remarks	N-Values blows/ft.	Moisture Content %
0	6/6 5/6 5/6	SP	POORLY GRADED SAND; loose, damp, fine to coarse grained, light brown, trace gravel	EI=0	10	0.1
5	32/6 25/6 17/6	CL	LEAN CLAY WITH SAND; very stiff, moist, low plasticity, light brown	DD=90.8 pcf +4=0.1% sand=31.9% -200=68.0% LL=40 PI=19	42	5.3
10	4/6 9/6 12/6		LEAN CLAY; stiff, moist, low to medium plasticity, dark brown	DD=98.4 pcf	21	18.1
15	4/6 5/6 7/6	SM	SILTY SAND; medium dense, moist, fine grained, dark brown		12	
20	3/6 5/6 6/6	CL	LEAN CLAY; stiff, moist, low to medium plasticity, dark brown		11	
			Bottom of boring B-4 at 20 feet			
25						

Notes:

Figure Number

MOORE TWINING ASSOCIATES, INC.

Test Boring: B-5

Project: Proposed Electric Charging Truck Station with Travel Center

Project Number: H07603.02

Drilled By: James C.

Logged By: Jordi F.

Date: June 30, 2022

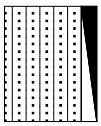
Drill Type:

Elevation: N/A

Auger Type: 6" Diameter Hand Auger

Hammer Type:

Depth to Groundwater First Encountered During Drilling: N/E

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	Remarks	N-Values blows/ft.	Moisture Content %
0		SM	SILTY SAND; damp, fine to medium grained, light brown, some gravel	+4=3.7% Sand=85.6% -200=13.7		0.6
			Bottom of boring B-5 at 3 feet			
5						
10						
15						
20						
25						

Notes:

Figure Number

KEY TO SYMBOLS

Symbol	Description
Strata symbols	
	Silty sand
	Silt
	Lean clay
	Poorly graded sand with silt
	Poorly graded sand
	Clayey sand
Misc. Symbols	
	Drill rejection

Symbol	Description
	Boring continues
Soil Samplers	
	Standard penetration test
	California Modified split barrel ring sampler
	Bulk/Grab sample

Notes:

1. Exploratory borings were drilled on June 30, 2022 using a CME 75 drill rig equipped with 6-5/8 inch outside diameter hollow stem augers.

2. Groundwater was not encountered.

3. Boring locations were measured or paced from existing features.

4. These logs are subject to the limitations, conclusions, and recommendations in this report.

5. The "N-Value" reported for the California Modified Split Barrel Sampler is the uncorrected field blow count. This value should not be interpreted as an SPT equivalent N-Value.

6. Results of tests conducted on samples recovered are reported on the logs.

DD =	Natural dry density (pcf)	LL =	Liquid Limit (%)
+4 =	Percent retained on #4 sieve (%)	PI =	Plasticity Index (%)
-200 =	Percent passing #200 sieve (%)	pH =	Soil pH
SS =	Soluble sulfates (%)	Cl =	Soluble chlorides (%)
SR =	Soil Resistivity (ohms-cm)	AMSL =	Above Mean Sea Level
ø =	Angle of Internal Friction (degrees)	c =	Cohesion (psf)
pcf =	pounds per cubic foot	O.D. =	Outside Diameter
N/A =	Not Applicable	N/E =	Not Encountered
EI =	Expansion Index		

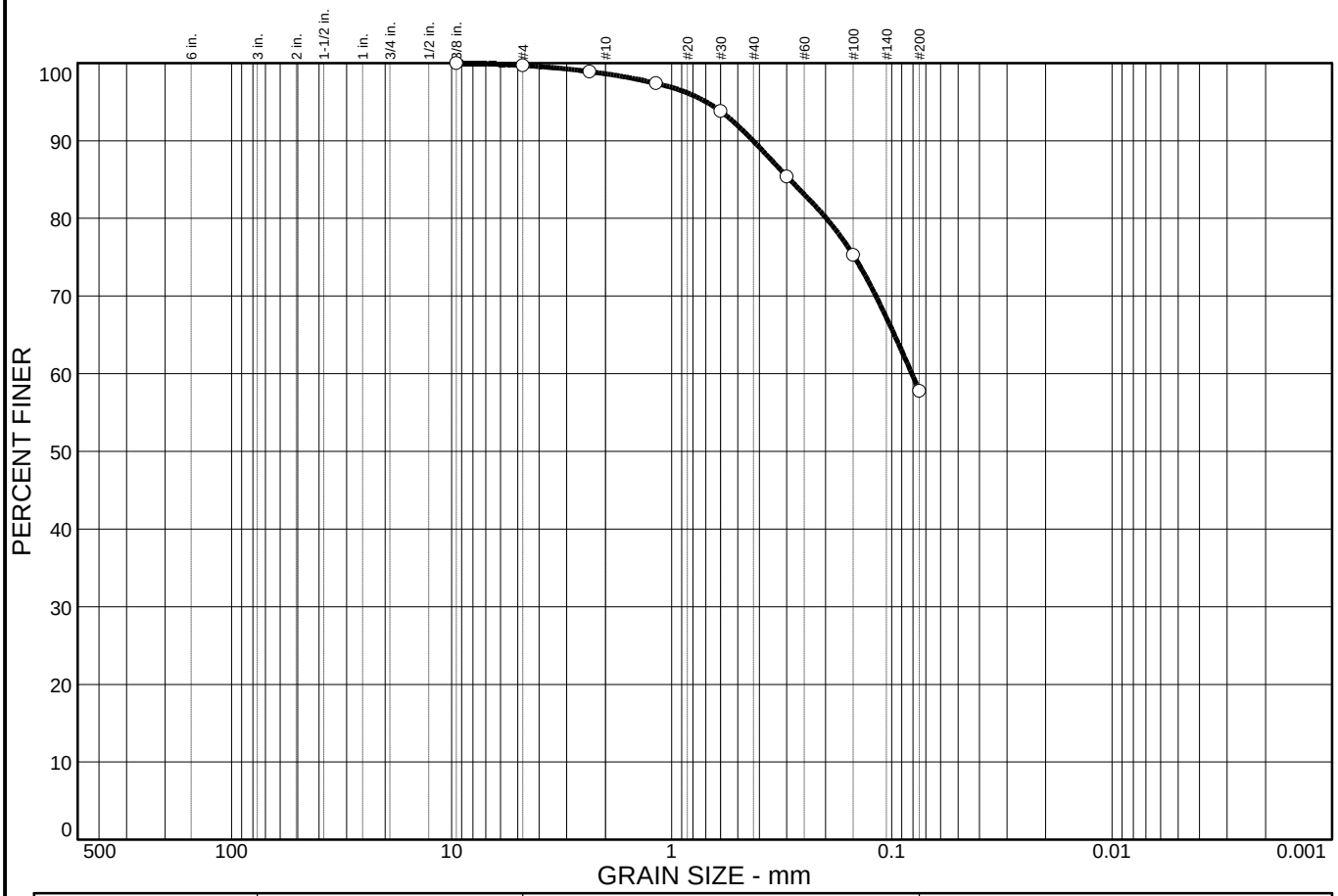
APPENDIX C

RESULTS OF LABORATORY TESTS FROM 2022 PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION

This appendix contains the individual results of the following tests. The results of the moisture content and dry density tests are included on the test boring logs in Appendix B. These data, along with the field observations, were used to prepare the final test boring logs in Appendix B.

These Included:	**To Determine:**
Moisture Content (ASTM D2216)	Moisture contents representative of field conditions at the time the sample was taken.
Dry Density (ASTM D2937)	Dry unit weight of sample representative of in-situ or in-place undisturbed condition.
Grain-Size Distribution (ASTM D422)	Size and distribution of soil particles, i.e., sand, gravel and fines (silt and clay).
Atterberg Limits (ASTM D4318)	Determines the moisture content where the soil behaves as a viscous material (liquid limit) and the moisture content at which the soil reaches a plastic state
Expansion Index (ASTM D4829)	Swell potential of soil with increases in moisture content.
Consolidation (ASTM 2435)	The amount and rate at which a soil sample compresses when loaded, and the influence of saturation on its behavior.
R-Value (ASTM 2844)	The capacity of a subgrade or subbase to support a pavement section designed to carry a specified traffic load.
Sulfate Content (Cal Test 417)	Percentage of water-soluble sulfate as (SO4) in soil samples. Used as an indication of the relative degree of sulfate attack on concrete and for selecting the cement type.
Chloride Content (Cal Test 422)	Percentage of soluble chloride in soil. Used to evaluate the potential attack on encased reinforcing steel.
Resistivity (ASTM G187)	The potential of the soil to corrode metal.
pH (Cal Test 643)	The acidity or alkalinity of subgrade material.

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.3	1.1	8.7	32.1	57.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8 in.	100.0		
#4	99.7		
#8	98.9		
#16	97.4		
#30	93.8		
#50	85.4		
#100	75.3		
#200	57.8		

* (no specification provided)

Material Description

Sandy silt

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{85}= 0.291 D_{60}= 0.0811 D_{50}=
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= ML AASHTO=

Remarks

Sample No.: B-1 **Source of Sample:** **Date:** 6/30/22
Location: **Elev./Depth:** 3.5-5'

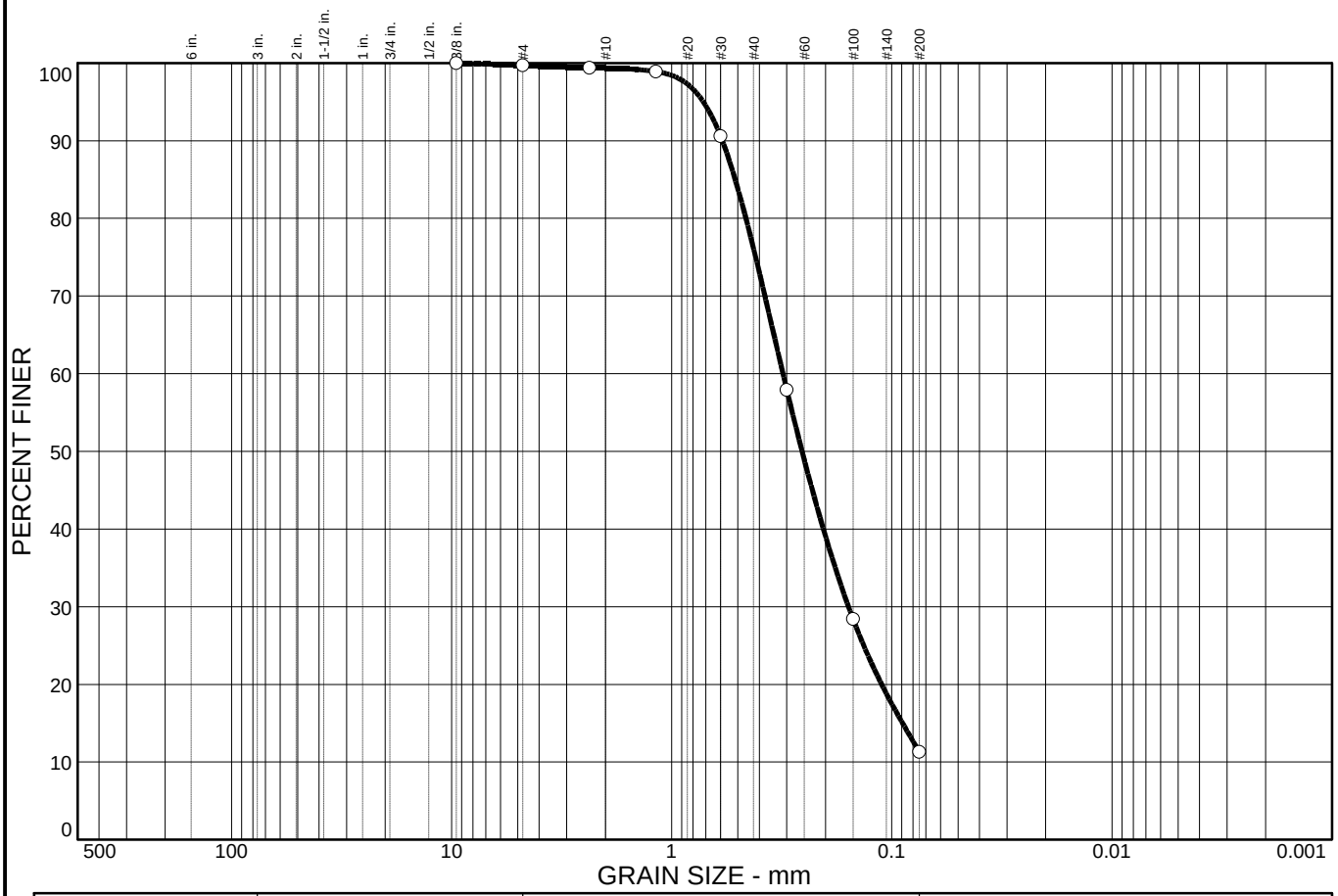
Moore Twining Associates, Inc.

Fresno, CA

Client:
Project: Electric Charging Station and Travel Center

Project No: H07603.02 **Figure**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.3	0.3	23.3	64.8	11.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8 in.	100.0		
#4	99.7		
#8	99.4		
#16	98.9		
#30	90.6		
#50	57.9		
#100	28.4		
#200	11.3		

* (no specification provided)

Material Description

Poorly graded sand with silt

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.515 D_{60}= 0.312 D_{50}= 0.256
D_{30}= 0.157 D_{15}= 0.0894 D_{10}=
C_u= C_c=

Classification

USCS= SP-SM AASHTO=

Remarks

Sample No.: B-2 **Source of Sample:** **Date:** 6/30/22
Location: **Elev./Depth:** 1-2.5'

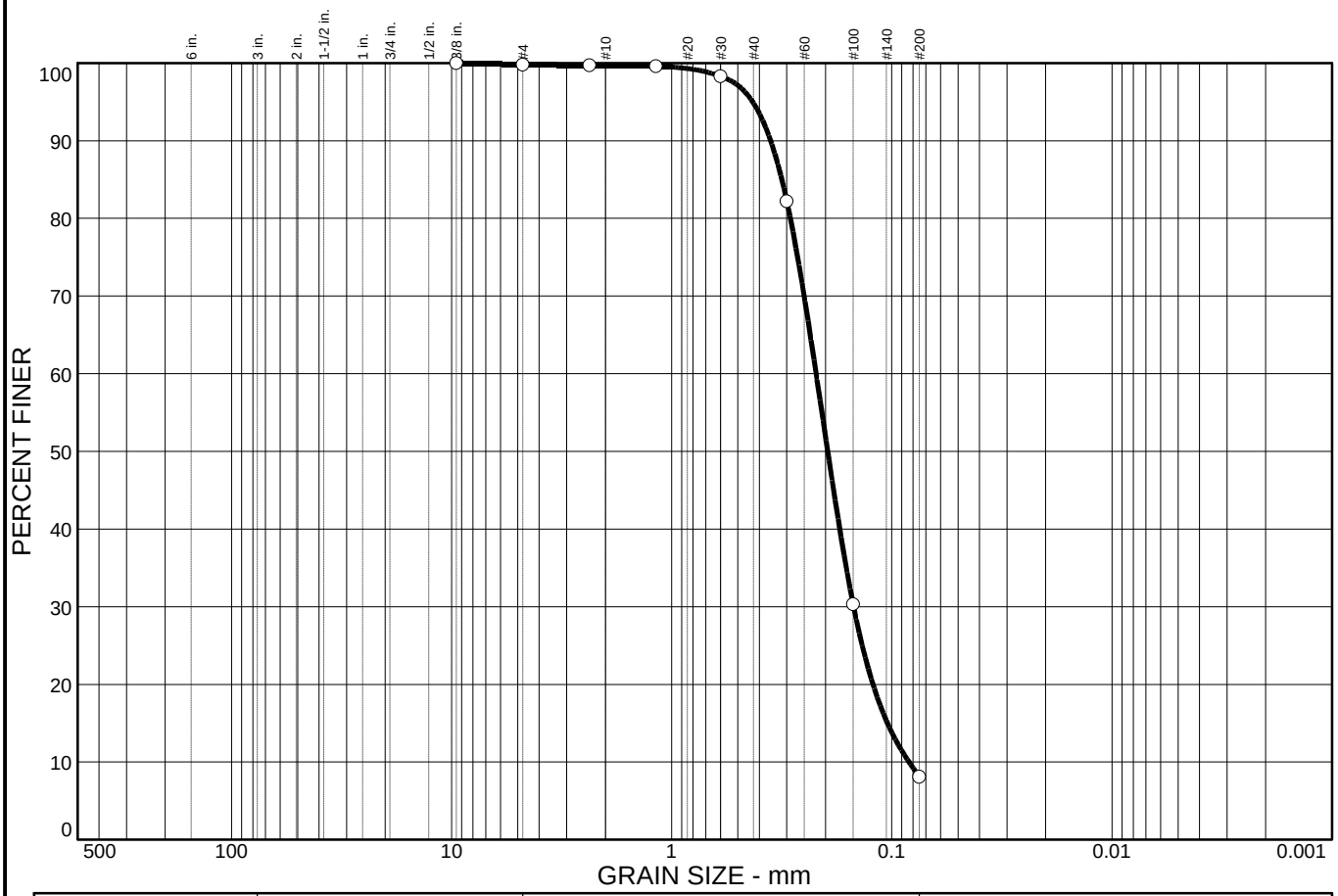
Moore Twining Associates, Inc.

Fresno, CA

Client:
Project: Electric Charging Station and Travel Center

Project No: H07603.02 **Figure**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.2	0.1	4.9	86.7	8.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8 in.	100.0		
#4	99.8		
#8	99.7		
#16	99.6		
#30	98.3		
#50	82.2		
#100	30.3		
#200	8.1		

* (no specification provided)

Material Description

Poorly graded sand with silt

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.316 D_{60}= 0.221 D_{50}= 0.196
D_{30}= 0.149 D_{15}= 0.105 D_{10}= 0.0836
C_u= 2.64 C_c= 1.21

Classification

USCS= SP-SM AASHTO=

Remarks

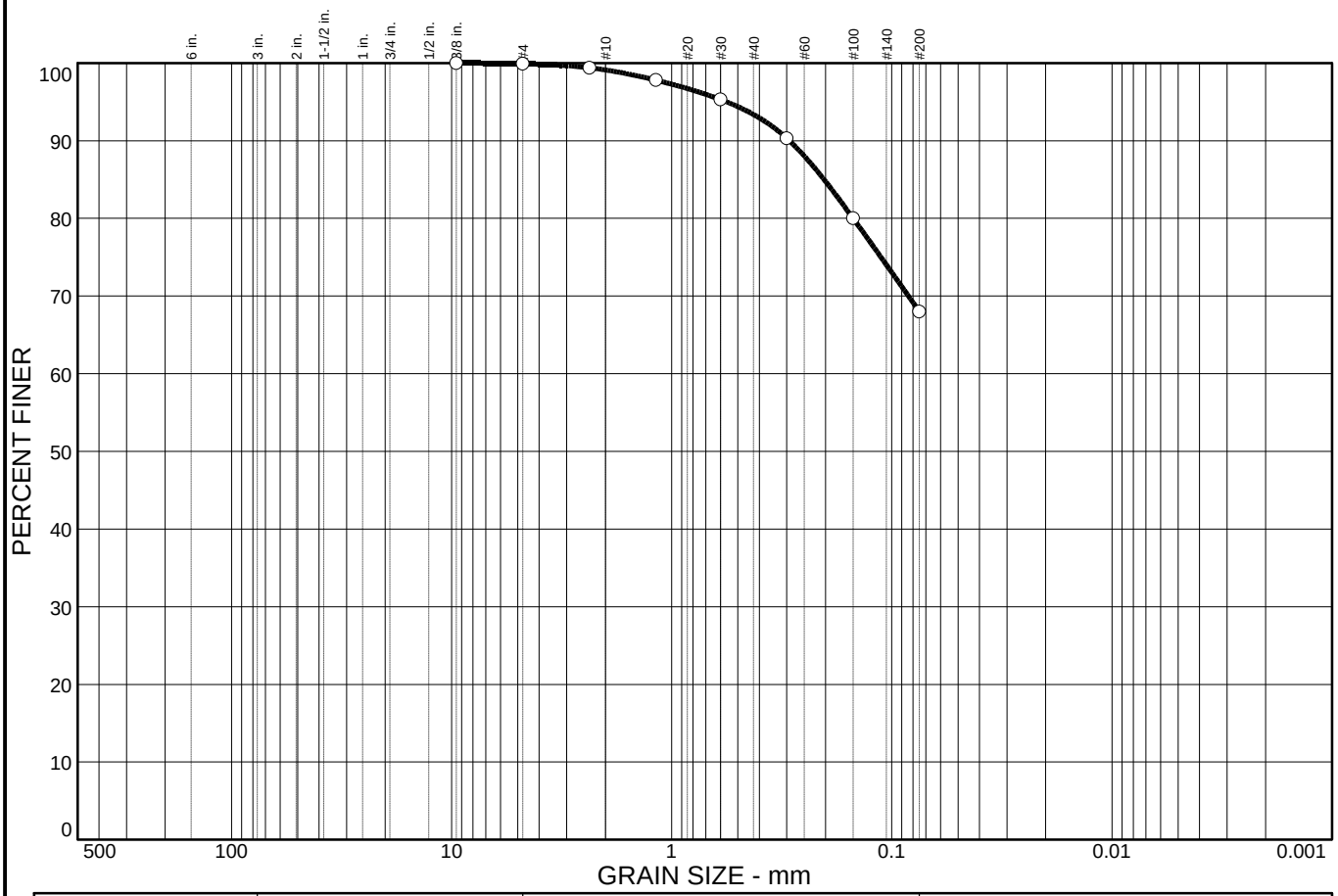
Sample No.: B-3 **Source of Sample:** **Date:** 6/30/22
Location: **Elev./Depth:** 1.5-3'

Moore Twining Associates, Inc.

Fresno, CA

Client:
Project: Electric Charging Station and Travel Center
Project No: H07603.02 **Figure**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.1	0.8	5.7	25.4	68.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8 in.	100.0		
#4	99.9		
#8	99.4		
#16	97.8		
#30	95.3		
#50	90.3		
#100	80.0		
#200	68.0		

* (no specification provided)

Material Description

Sandy lean clay

Atterberg Limits

PL= 21 LL= 40 PI= 19

Coefficients

D_{85}= 0.203 D_{60}= D_{50}=
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL AASHTO=

Remarks

Sample No.: B-4 **Source of Sample:** **Date:** 6/30/22
Location: **Elev./Depth:** 3.5-5'

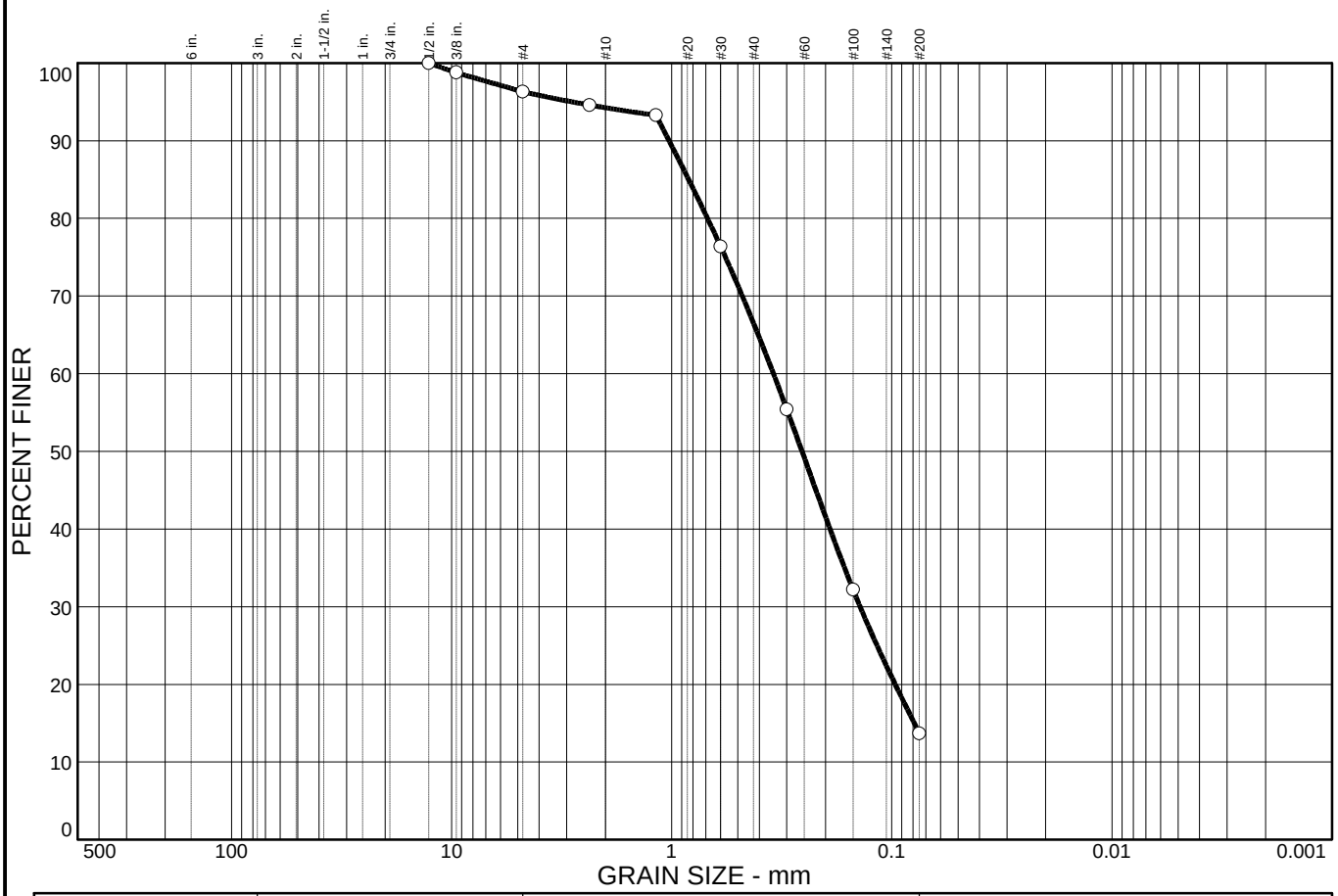
Moore Twining Associates, Inc.

Fresno, CA

Client:
Project: Electric Charging Station and Travel Center

Project No: H07603.02 **Figure**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	3.7	2.0	27.8	52.8	13.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1/2 in.	100.0		
3/8 in.	98.8		
#4	96.3		
#8	94.6		
#16	93.3		
#30	76.4		
#50	55.4		
#100	32.2		
#200	13.7		

* (no specification provided)

Material Description

Silty sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.838 D_{60}= 0.345 D_{50}= 0.256
D_{30}= 0.139 D_{15}= 0.0790 D_{10}=
C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

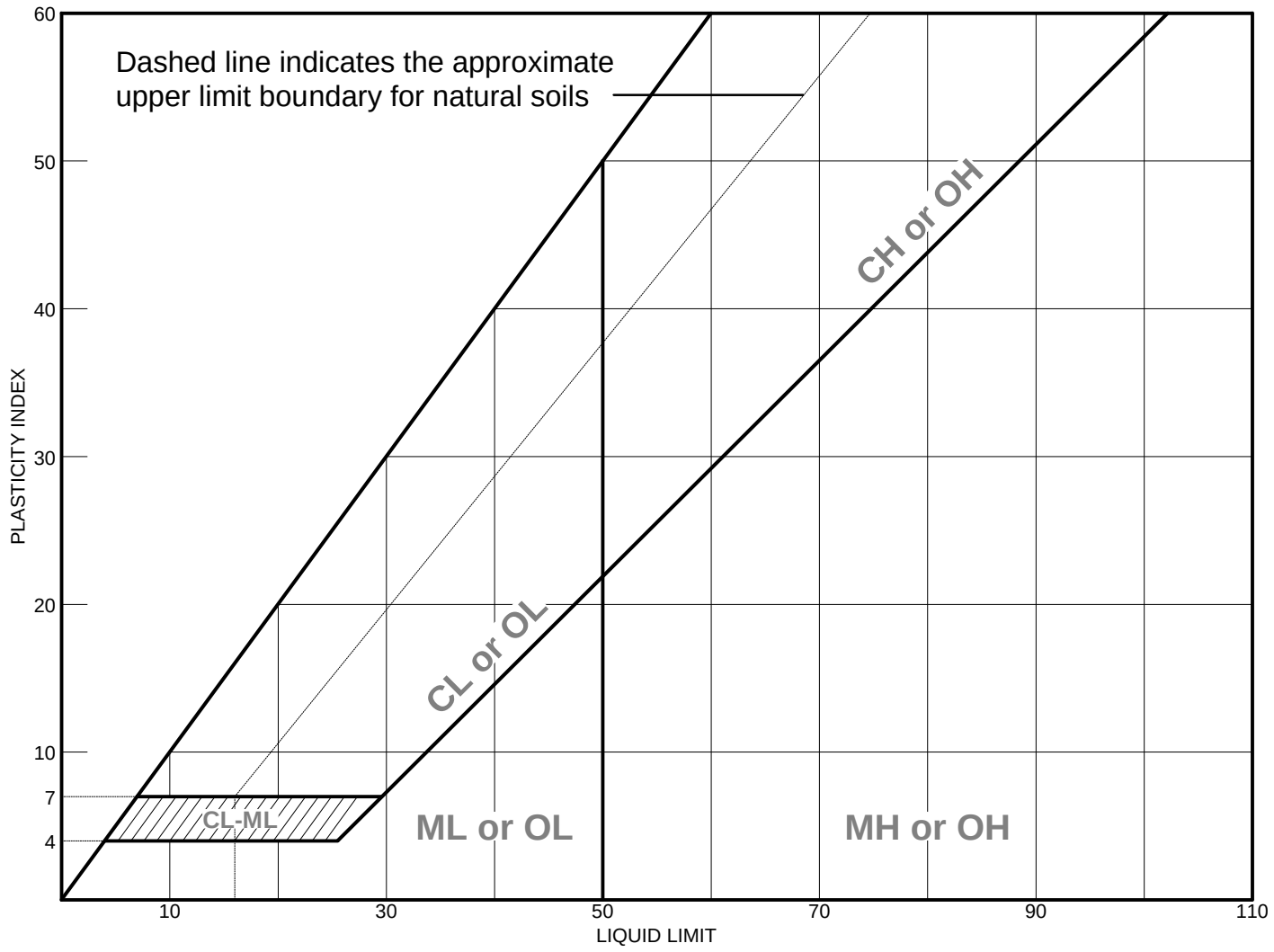
Sample No.: B-5 **Source of Sample:** **Date:** 6/30/22
Location: **Elev./Depth:** 0-3'

Moore Twining Associates, Inc.

Fresno, CA

Client:
Project: Electric Charging Station and Travel Center
Project No: H07603.02 **Figure**

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Sandy silt	NV	NP	NP	89.9	57.8	ML

Project No. H07603.02 **Client:**

Project: Electric Charging Station and Travel Center

● **Source:** **Sample No.:** B-1 **Elev./Depth:** 3.5-5'

Remarks:

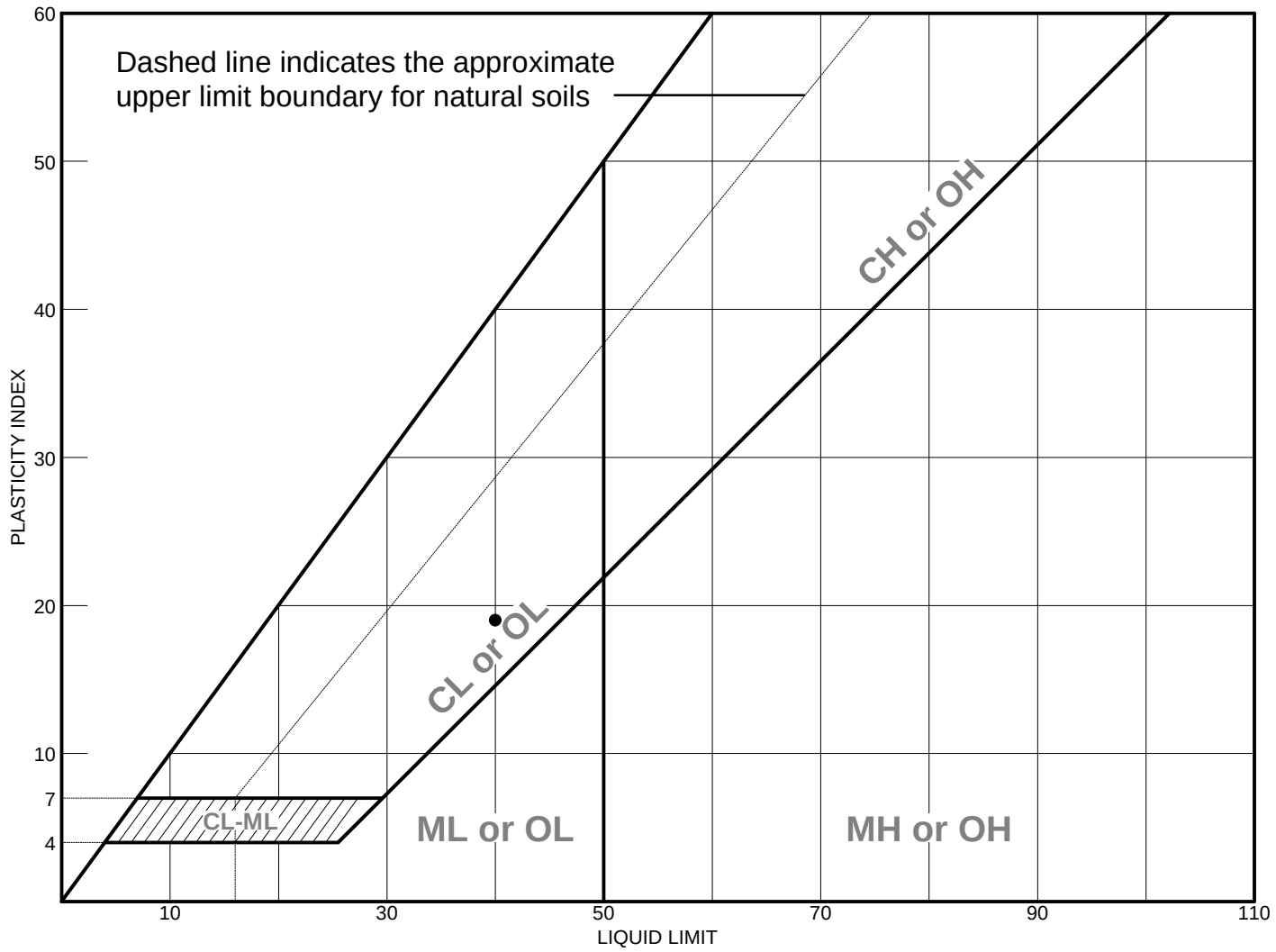
●

Moore Twining Associates, Inc.

Fresno, CA

Figure

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Sandy lean clay	40	21	19	93.4	68.0	CL

Project No. H07603.02 **Client:**

Project: Electric Charging Station and Travel Center

● **Source:** **Sample No.:** B-4 **Elev./Depth:** 3.5-5'

Remarks:

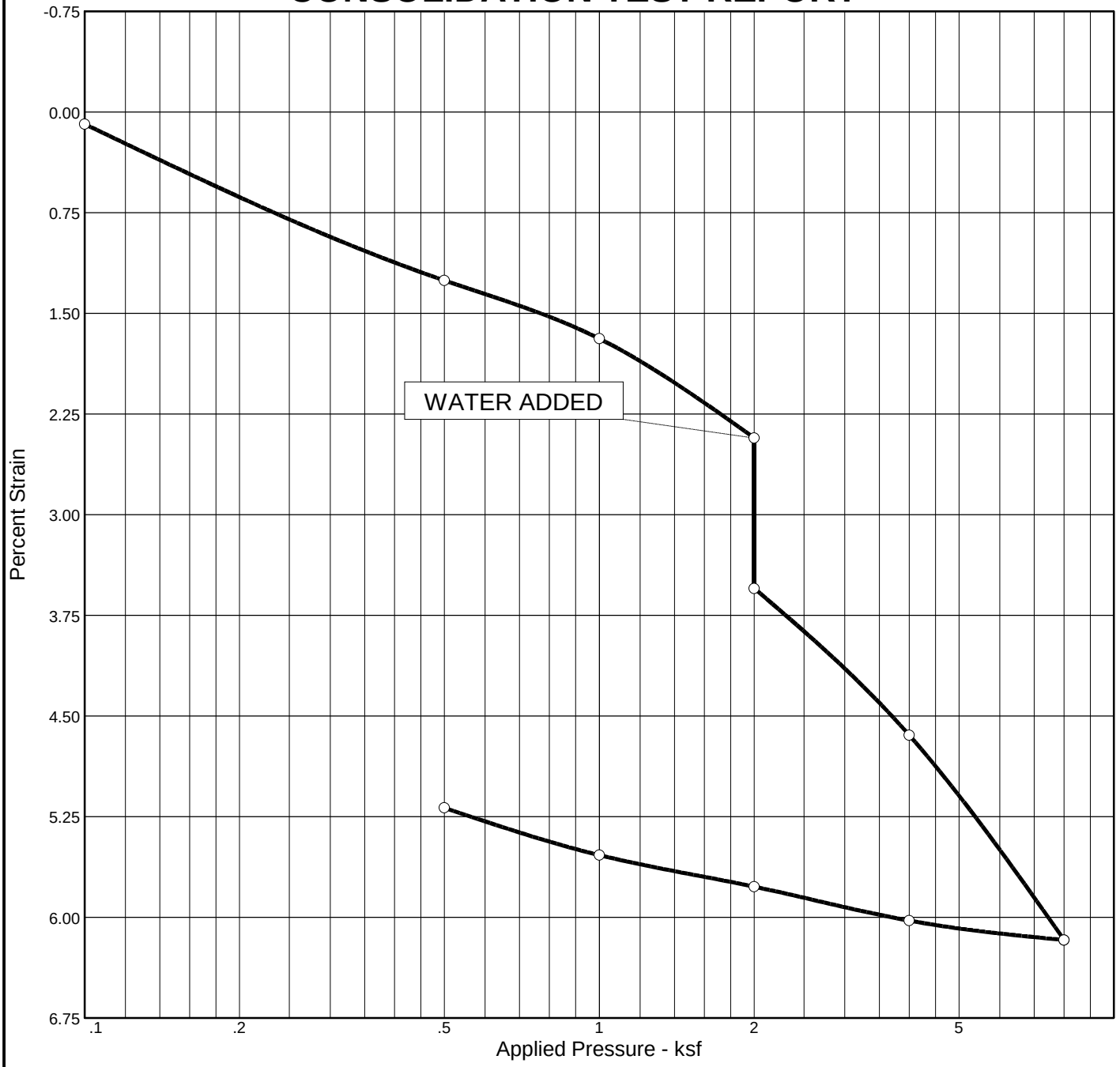
●

Moore Twining Associates, Inc.

Fresno, CA

Figure

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (ksf)	P_c (ksf)	C_c	C_s	Swell Press. (ksf)	Clpse. %	e_o
Sat.	Moist.											
8.3 %	2.6 %	91.0			2.65		1.12	0.09	0.01		1.2	0.818

MATERIAL DESCRIPTION	USCS	AASHTO
Silty sand		

Project No. H07603.02 **Client:**

Project: Electric Charging Station and Travel Center

Source: **Sample No.:** B-3 **Elev./Depth:** 5-6.5'

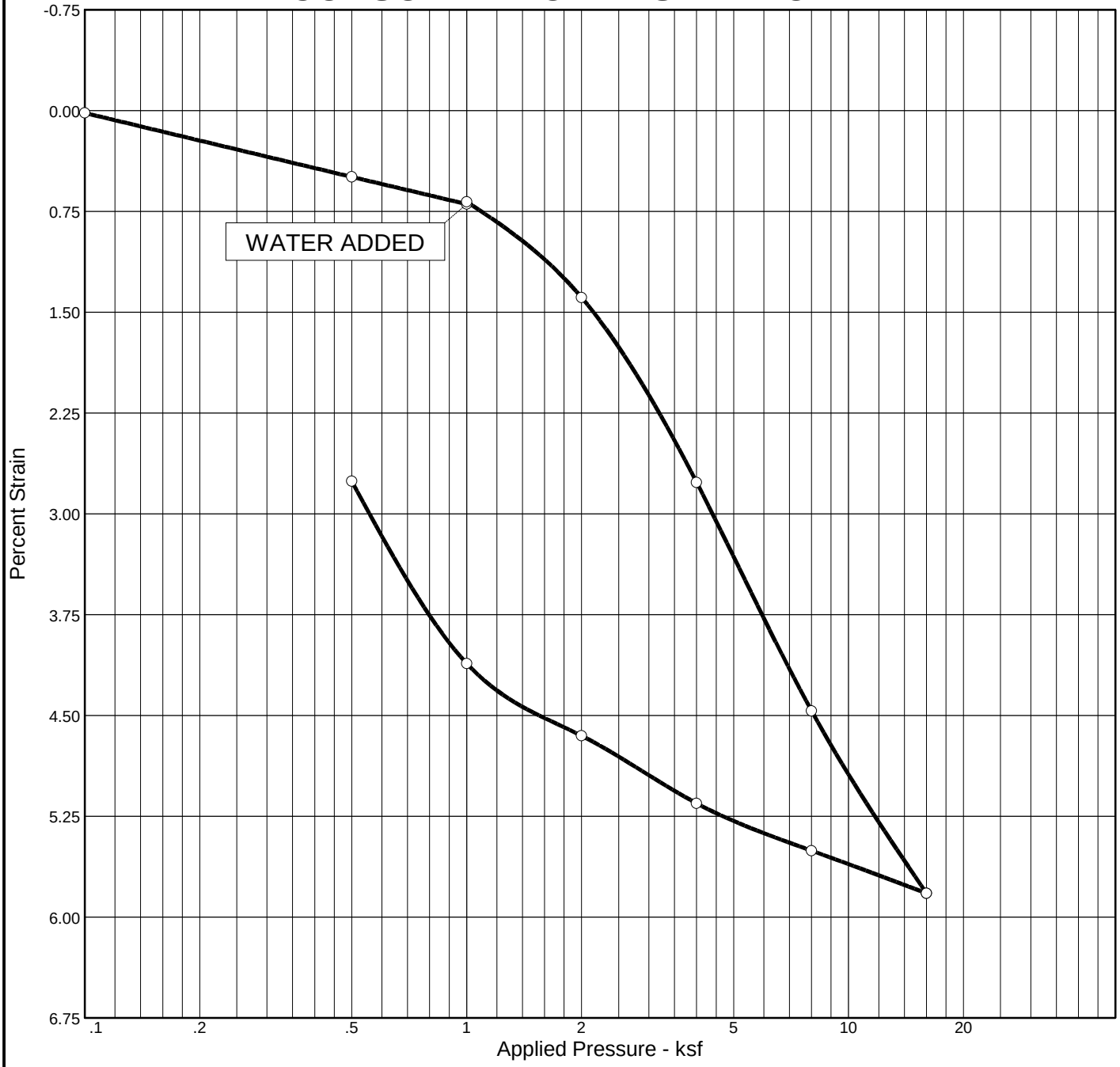
Moore Twining Associates, Inc.

Fresno, CA

Remarks:

Figure

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (ksf)	P_c (ksf)	C_c	C_s	Swell Press. (ksf)	Swell %	e_o
Sat.	Moist.											
24.1 %	6.7 %	95.4	40	19	2.65		1.35	0.08	0.04	1.02		0.734

MATERIAL DESCRIPTION	USCS	AASHTO
Sandy lean clay	CL	

Project No. H07603.02 **Client:**

Project: Electric Charging Station and Travel Center

Source: **Sample No.:** B-4 **Elev./Depth:** 3.5-5'

Moore Twining Associates, Inc.

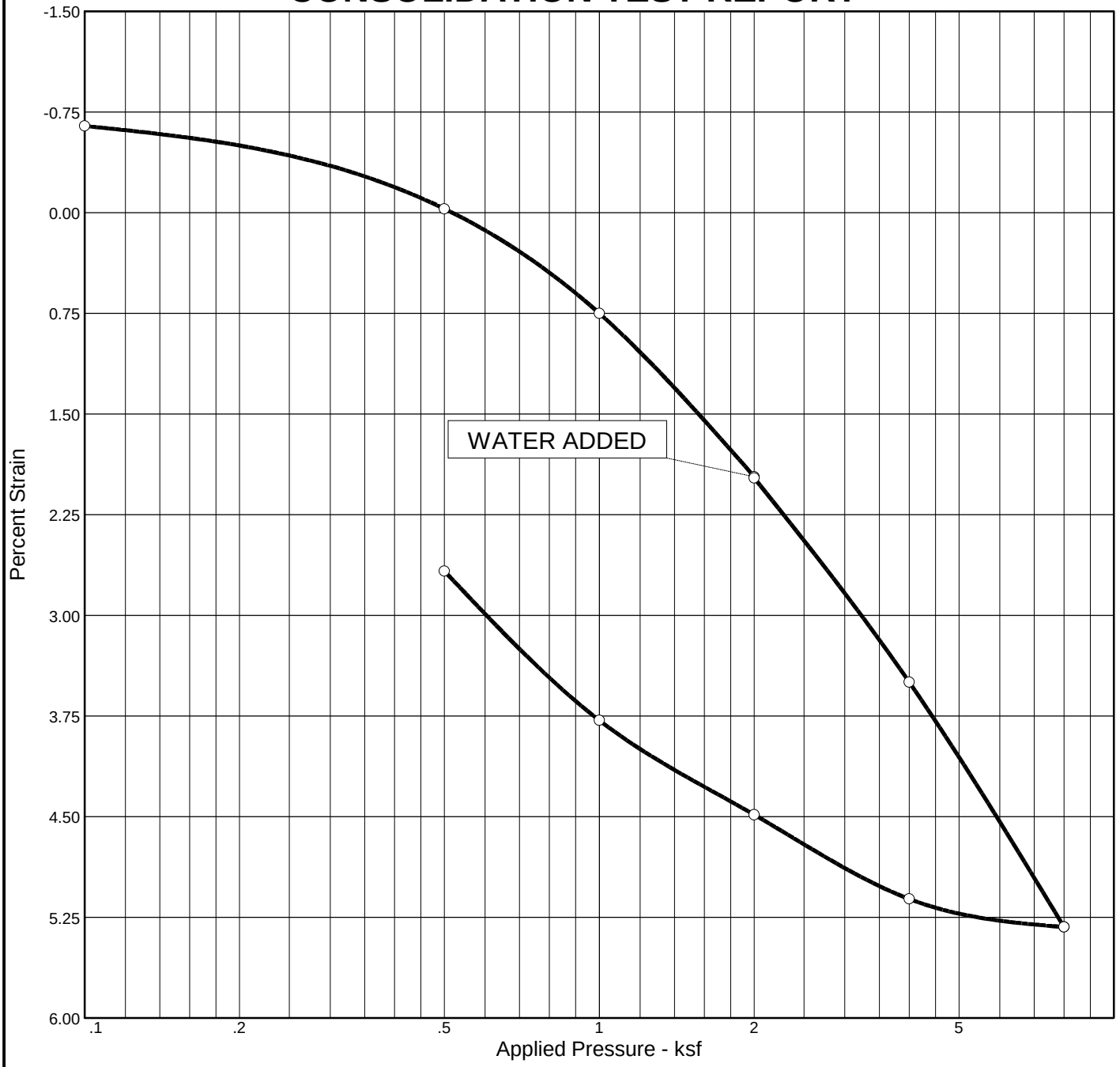
Fresno, CA

Remarks:

Sample strated to extrude @ 2KSF

Figure

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (ksf)	P_c (ksf)	C_c	C_s	Swell Press. (ksf)	Swell %	e_o
Sat.	Moist.											
94.4 %	20.8 %	104.4			2.65		1.46	0.10	0.03			0.584

MATERIAL DESCRIPTION	USCS	AASHTO
Sandy lean clay		

Project No. H07603.02 **Client:**

Project: Electric Charging Station and Travel Center

Source: **Sample No.:** B-4 **Elev./Depth:** 8.5-10'

Moore Twining Associates, Inc.

Fresno, CA

Remarks:

Figure

MOORE TWINING ASSOCIATES, INC.

EXPANSION INDEX TEST, ASTM D4829

MTA PROJECT NAME:	Proposed Charging Station and Travel Center	REPORT DATE:	7/18/2022
		TEST DATE:	7/15/2022
MTA PROJECT NO.:	H07603.02		
SAMPLE I.D.:	B-4 @ 0-5'		
SAMPLED BY:	JF		
SAMPLE DATE:	6/30/2022	TESTED BY:	AL
MATERIALS DESCRIPTION:	Sand with silt		
% PASSING # 4 SIEVE	100		

Initial Moisture Determination:		Final Moisture Determination:	
Pan + Wet Soil Wt., gm	250.0	Wet Soil Wt., lbs	0.9219
Pan + Dry Soil Wt., gm	227.2	Dry Soil Wt., lbs	0.7916
Pan Wt., gm	0.0		
Initial % Moisture Content	10.0	Final % Moisture Content	16.5

Initial Expansion Data:		**Final Expansion Data:**	
Ring + Sample Wt., lbs	0.8710	Ring + Sample Wt., lbs	0.9219
Ring Wt., lbs	0.0000	Ring Wt., lbs	0.0000
Remolded Wt., lbs	0.8710	Remolded Wt., lbs	0.9219
Remolded Wet Density, pcf	119.8	Remolded Wet Density, pcf	126.8
Remolded Dry Density, pcf	108.8	Remolded Dry Density, pcf	108.9

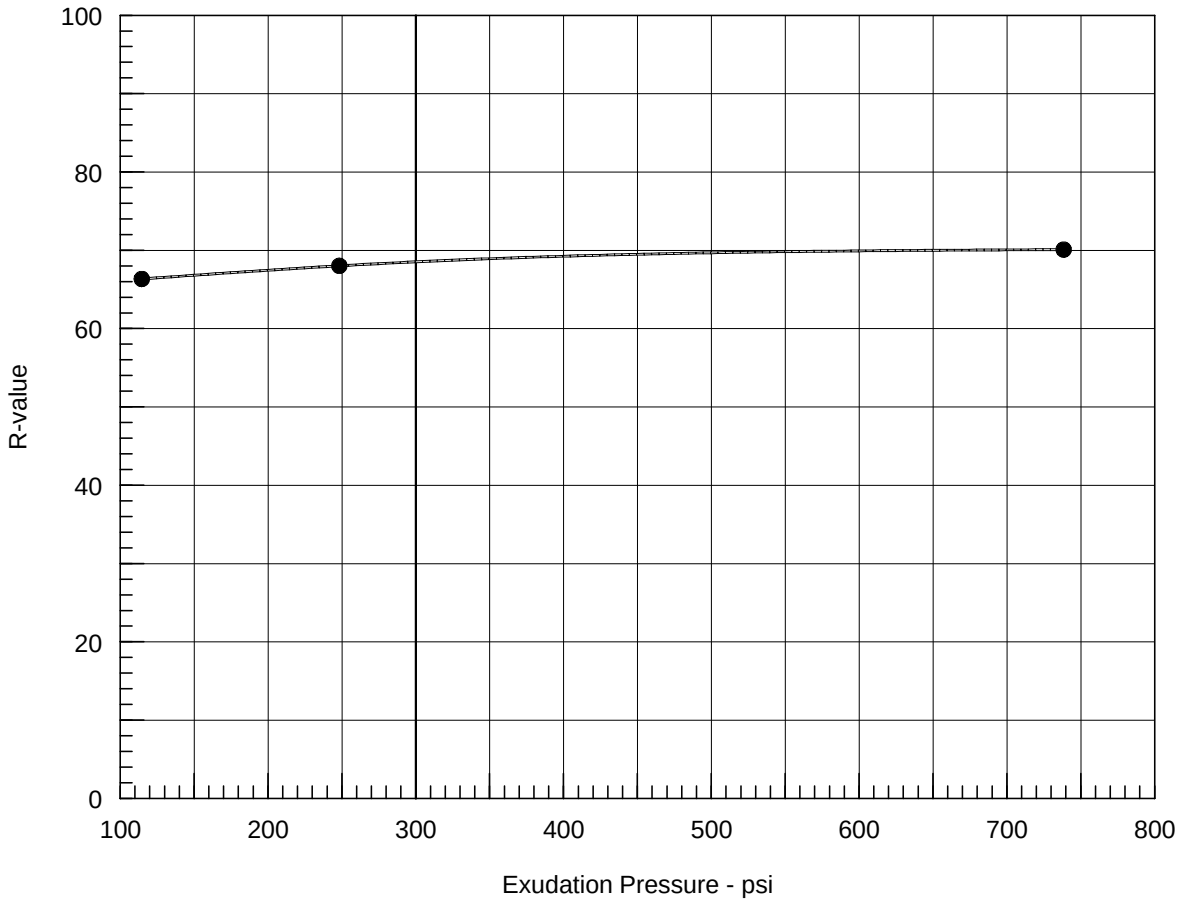
Expansion Data:		Initial Volume	Final Volume
		0.00727222	0.007269
Initial Gage Reading, in:	0.0561		
Final Gage Reading, in:	0.0556		
Expansion, in:	-0.0005		
Expansion Index	0	**Comments:**	**Ver Low Expansion Potential**

Classification of Expansive Soils. (Table No.1 From ASTM D4829)

Expansion Index	Potential Expansion
0-20	Very Low
21-50	Low
51-90	Medium
91-130	High
>130	Very High

PH: 559.268.7021
FX: 559.268.7126
2527 Fresno Street
Fresno, CA 93721

R-VALUE TEST REPORT



Resistance R-Value and Expansion Pressure - ASTM D 2844

No.	Compact. Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	350	106.7	13.4	0.00	26	2.47	248	68	68
2	350	105.4	12.6	0.00	26	2.48	738	70	70
3	350	106.4	14.0	0.00	26	2.47	115	66	66

Test Results	Material Description
R-value at 300 psi exudation pressure = 69	Sandy silt

Project No.: H07603.02
Project: Electric Charging Station and Travel Center
Sample Number: B-1 **Depth:** 0-5'
Date: 7/19/2022

Tested by: MP
Checked by: MS
Remarks:

R-VALUE TEST REPORT

Moore Twining Associates, Inc.

Figure NA

MOORE TWINING ASSOCIATES, INC.

Project Name:	Proposed Charging Station and Travel Center	Report Date:	7/18/2022
		Sample Date:	6/30/2022
Project Number:	H07603.02		
		Sampled By:	JF
Subject:	Minimum Resistivity, ASTM G187	Tested By:	AL
Material Description:	Sandy silt	Test Date:	7/15/2022
Location:	B-1 @ 0-5'		

Laboratory Test Results, Minimum Resistivity - ASTM G187

Total Water Added, mls	Resistivity, Ohm-cm
100 mls	5,500
125 mls	4,200
150 mls	3,300
175 mls	3,000
200 mls	2,900
225 mls	2,800
250 mls	2,700
275 mls	2,700
300 mls	2,800

Remarks: Min. Resistivity is 2,700 Ohm-cm

www.mooretwining.com
PH: 559.268.7021
FX: 559.268.7126
2527 Fresno Street
Fresno, CA 93721

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

July 19, 2022

Work Order #: **IG07028**

Alan Villegas
MTA Geotechnical Division
2527 Fresno Street
Fresno, CA 93721

RE: Electric Charging Station & Travel Center

Enclosed are the analytical results for samples received by our laboratory on **07/07/22** . For your reference, these analyses have been assigned laboratory work order number **IG07028**.

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Lauren Cox
Client Services Representative

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

MTA Geotechnical Division 2527 Fresno Street Fresno CA, 93721	**Project:** Electric Charging Station & Travel Center **Project Number:** H07603.02 **Project Manager:** Alan Villegas	**Reported:** 07/19/2022

Analytical Report for the Following Samples

Sample ID	Notes	Laboratory ID	Matrix	Date Sampled	Date Received
B1 @0-5'		IG07028-01	Soil	06/30/22 00:00	07/07/22 13:10

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

MTA Geotechnical Division 2527 Fresno Street Fresno CA, 93721	**Project:** Electric Charging Station & Travel Center **Project Number:** H07603.02 **Project Manager:** Alan Villegas	**Reported:** 07/19/2022

B1 @0-5'

IG07028-01 (Soil) Sampled: 06/30/22 00:00

Analyte	Flag	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics									
Chloride		**76**	6.0	mg/kg	3	B2G1117	07/11/22	07/12/22	Cal Test 422
Chloride		**0.0076**	0.00060	% by Weight	3	[CALC]	07/12/22	07/12/22	[CALC]
Sulfate as SO4		**0.0047**	0.00060	% by Weight	3	[CALC]	07/12/22	07/12/22	[CALC]
pH		**8.0**	0.10	pH Units	1	B2G1117	07/11/22	07/12/22	Cal Test 643
Sulfate as SO4		**47**	6.0	mg/kg	3	B2G1117	07/11/22	07/12/22	Cal Test 417

Notes and Definitions

µg/L	micrograms per liter (parts per billion concentration units)
mg/L	milligrams per liter (parts per million concentration units)
mg/kg	milligrams per kilogram (parts per million concentration units)
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

Analysis of pH, filtration, and residual chlorine is to take place immediately after sampling in the field.
If the test was performed in the laboratory, the hold time was exceeded. **(for aqueous matrices only)**

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MOORE TWINING

CHAIN OF CUSTODY / ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

WORK ORDER #: I607028
PAGE 1 **OF** 2

REPORT TO:	☐ INVOICE TO:	☐ REPORT COPY TO:	REPORTING:
ATTENTION: Alan Villegas	ATTENTION:		☒ STANDARD FORMAT ☐ PDF ☐ EDT (SWRCB) ☐ EXCEL ☐ GEOTRACKER/COELT (LUFT) GLOBAL ID:
COMPANY NAME: Geotechnical Division	COMPANY NAME:		☐ COUNTY ENVIRONMENTAL HEALTH:
ADDRESS:	ADDRESS:		☐ STATE WATER RESOURCES CONTROL BOARD:
PHONE:	PHONE:		☐ OTHER:
EMAIL / FAX:	EMAIL / FAX:		

SAMPLE INFORMATION

SAMPLED BY (PRINT): Jordi F.
SIGNATURE:

☐ PUBLIC SYSTEM ☒ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ REPLACEMENT

TURN AROUND TIME
☒ STANDARD
☐ RUSH, DUE ON: _____

SAMPLE TYPES

SOLID:
BS - BIOSOLID
CR - CERAMIC
SL - SOIL/SOLID
LIQUID:
DW - DRINKING WATER
GW - GROUND WATER
OL - OIL
SF - SURFACE WATER
ST - STORM WATER
WW - WASTEWATER

PROJECT INFORMATION

CONTRACT / P.O. NO.:
PROJECT: Electric Charging Station and Travel Center
PROJECT NUMBER: H07603.02
PROJECT MANAGER: Alan Villegas

ANALYSIS REQUESTED

LAB USE

NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLES(S) DAMAGED
☐ ON ICE ☒ AMBIENT TEMP. ☐ INCORRECT PRESERVATION

	CLIENT SAMPLE ID	DATE	TIME	TYPE	pH	Chloride	Sulfate	STATION CODE
1	B1@0-5'	6/30/22	NA	SL	x	x	x	

COMMENTS / ADDITIONAL INSTRUCTIONS:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
Adrian Lopez	MTA/Mat.	7/7/22	1310	[signature]	MTA

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in MTA's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody and agrees to MTA's terms and conditions for laboratory services unless contractually bound otherwise. MTA's current terms and conditions can be obtained by contacting our accounting department at (559) 268-7021.

Sample Integrity

Page 2 of 2

Moore Twining Associates
WO# 1GD7028

MTA Bottles: (Yes) or No

COC Info

Was temperature within range? Chemistry ≤6°C Micro <10°C Temp_____°C	Yes No (N/A)	Did all bottle labels agree with COC?	(Yes) No N/A
If samples were taken today, is there evidence that chilling has begun? Recvd 21.0°C	Yes (No) N/A	Was a sufficient amount of sample received?	(Yes) No N/A
Did all bottles arrive unbroken and intact?	(Yes) No N/A	Were correct containers and preservatives received for the tests requested?	(Yes) No N/A
Do samples have a hold time <72 hours?	Yes (No) N/A		

Were there bubbles in VOA vials? (**Volatiles Only**) — Yes No (N/A)

Was PM notified of discrepancies? PM: By/Time: — Yes (No) N/A

Bottles Received

125ml (A) 250ml (B) 1Liter (C) 40ml VOA (V)	1																		
Bacti $Na_2S_2O_3$																			
None (P)																			
None (AG)																			
None (CG) 500ml																			
Cr6 Buffer (P) Borate Carbonate Buffer																			
Dissolved Oxygen 300ml (P)																			
HNO_3 (P)																			
HCl (AG)																			
H_2SO_4 (P)																			
H_3PO_4 (AG)																			
NaOH (P)																			
NaOH + ZnAc (P)																			
$Na_2S_2O_3$ (AG)																			
$Na_2S_2O_3$ (CG)																			
$Na_2S_2O_3$ 250ml (Brown P) 549																			
Thio/K Citrate																			
NH_4Cl (AG) 552																			
Other:																			
Client Own																			
Low Level Hg/Metals Double Bag																			
Plastic Bag	1																		
Glass Jar: 125 / 250 / 500																			
Soil Tube: Brass / Steel / Plastic																			
5g Encore																			
1G Cubitaner																			

Filter or Split

	Container	Preservative	Date/Time/Initials
S P F			
S P F			
S P F			
S P F			
S P F			

Labeled by: ____ @ _____

Labels checked by: ____ @ 1515

FL-SC-0003-07

APPENDIX D

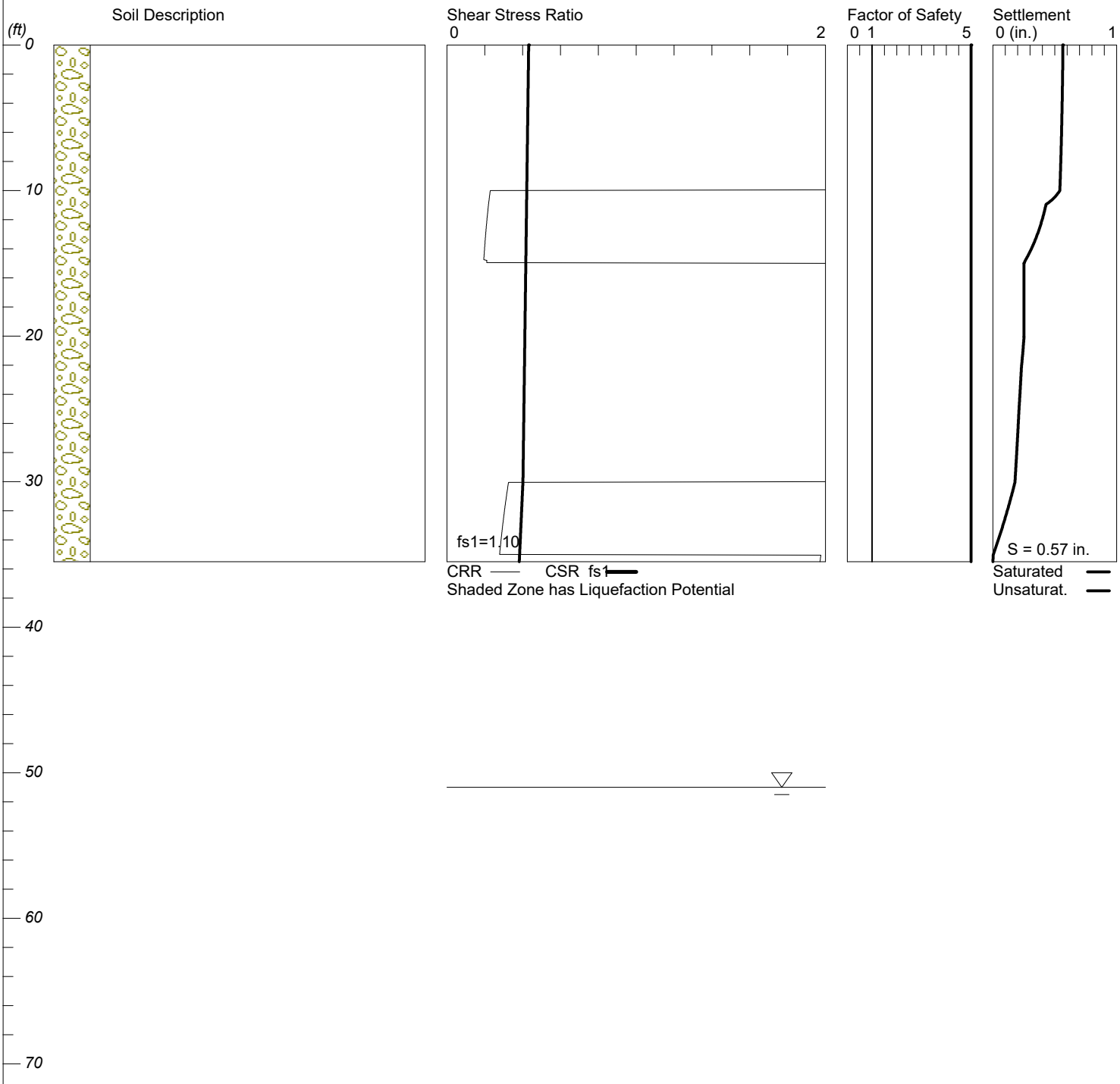
LIQUEFACTION ANALYSIS

LIQUEFACTION ANALYSIS

Proposed Electric Charging Truck Station and Travel Center

Hole No.=B-2 Water Depth=51 ft

Magnitude=7.45
Acceleration=0.604g



LiquefyPro CivilTech Software USA www.civiltech.com

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LIQUEFACTION ANALYSIS CALCULATION DETAILS

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Font: Courier New, Regular, Size 8 is recommended for this report.

Licensed to , 5/23/2024 5:06:24 PM

Input File Name: UNTITLED

Title: Proposed Electric Charging Truck Station and Travel Center

Subtitle: H07603.02

Input Data:

Surface Elev.=

Hole No.=B-2

Depth of Hole=35.50 ft

Water Table during Earthquake= 51.00 ft

Water Table during In-Situ Testing= 51.00 ft

Max. Acceleration=0.6 g

Earthquake Magnitude=7.45

No-Liquefiable Soils: CL, OL are Non-Liq. Soil

1. SPT or BPT Calculation.

2. Settlement Analysis Method: Ishihara / Yoshimine

3. Fines Correction for Liquefaction: Idriss/Seed

4. Fine Correction for Settlement: During Liquefaction*

5. Settlement Calculation in: All zones*

6. Hammer Energy Ratio, Ce = 1.5

7. Borehole Diameter, Cb= 1

8. Sampling Method, Cs= 1.2

9. User request factor of safety (apply to CSR) , User= 1.1
Plot one CSR curve (fs1=User)

10. Average two input data between two Depths: No

* Recommended Options

In-Situ Test Data:

Depth ft	SPT	Gamma pcf	Fines %
0.00	18.00	95.00	11.30
5.00	17.00	111.60	11.30
10.00	6.00	115.00	57.80
15.00	29.00	115.00	NoLiq
20.00	23.00	120.00	25.00
25.00	39.00	120.00	5.00
30.00	19.00	120.00	5.00
35.00	100.00	120.00	5.00
35.50	100.00	120.00	5.00

Output Results:

Calculation segment, dz=0.050 ft

User defined Print Interval, dp=1.00 ft

Peak Ground Acceleration (PGA), a_max = 0.60g

CSR Calculation:

Depth ft	gamma pcf	sigma atm	gamma' pcf	sigma' atm	rd	mZ g	a(z) g	CSR	x fs1	=CSRfs
0.00	95.00	0.000	95.00	0.000	1.00	0.000	0.604	0.39	1.10	0.43
1.00	95.00	0.045	95.00	0.045	1.00	0.000	0.604	0.39	1.10	0.43
2.00	95.00	0.090	95.00	0.090	1.00	0.000	0.604	0.39	1.10	0.43
3.00	95.00	0.135	95.00	0.135	0.99	0.000	0.604	0.39	1.10	0.43
4.00	95.00	0.180	95.00	0.180	0.99	0.000	0.604	0.39	1.10	0.43
5.00	111.60	0.224	111.60	0.224	0.99	0.000	0.604	0.39	1.10	0.43
6.00	111.60	0.277	111.60	0.277	0.99	0.000	0.604	0.39	1.10	0.43
7.00	111.60	0.330	111.60	0.330	0.98	0.000	0.604	0.39	1.10	0.42
8.00	111.60	0.383	111.60	0.383	0.98	0.000	0.604	0.39	1.10	0.42
9.00	111.60	0.435	111.60	0.435	0.98	0.000	0.604	0.38	1.10	0.42
10.00	115.00	0.488	115.00	0.488	0.98	0.000	0.604	0.38	1.10	0.42
11.00	115.00	0.542	115.00	0.542	0.97	0.000	0.604	0.38	1.10	0.42
12.00	115.00	0.597	115.00	0.597	0.97	0.000	0.604	0.38	1.10	0.42
13.00	115.00	0.651	115.00	0.651	0.97	0.000	0.604	0.38	1.10	0.42
14.00	115.00	0.706	115.00	0.706	0.97	0.000	0.604	0.38	1.10	0.42
15.00	115.00	0.760	115.00	0.760	0.97	0.000	0.604	0.38	1.10	0.42
16.00	115.00	0.814	115.00	0.814	0.96	0.000	0.604	0.38	1.10	0.42
17.00	115.00	0.869	115.00	0.869	0.96	0.000	0.604	0.38	1.10	0.41
18.00	115.00	0.923	115.00	0.923	0.96	0.000	0.604	0.38	1.10	0.41
19.00	115.00	0.977	115.00	0.977	0.96	0.000	0.604	0.38	1.10	0.41
20.00	115.00	1.032	115.00	1.032	0.95	0.000	0.604	0.37	1.10	0.41
21.00	120.00	1.088	120.00	1.088	0.95	0.000	0.604	0.37	1.10	0.41
22.00	120.00	1.145	120.00	1.145	0.95	0.000	0.604	0.37	1.10	0.41
23.00	120.00	1.202	120.00	1.202	0.95	0.000	0.604	0.37	1.10	0.41
24.00	120.00	1.258	120.00	1.258	0.94	0.000	0.604	0.37	1.10	0.41
25.00	120.00	1.315	120.00	1.315	0.94	0.000	0.604	0.37	1.10	0.41
26.00	120.00	1.372	120.00	1.372	0.94	0.000	0.604	0.37	1.10	0.41
27.00	120.00	1.428	120.00	1.428	0.94	0.000	0.604	0.37	1.10	0.40
28.00	120.00	1.485	120.00	1.485	0.93	0.000	0.604	0.37	1.10	0.40
29.00	120.00	1.542	120.00	1.542	0.93	0.000	0.604	0.37	1.10	0.40
30.00	120.00	1.599	120.00	1.599	0.93	0.000	0.604	0.37	1.10	0.40
31.00	120.00	1.655	120.00	1.655	0.92	0.000	0.604	0.36	1.10	0.40
32.00	120.00	1.712	120.00	1.712	0.91	0.000	0.604	0.36	1.10	0.39
33.00	120.00	1.769	120.00	1.769	0.91	0.000	0.604	0.36	1.10	0.39
34.00	120.00	1.825	120.00	1.825	0.90	0.000	0.604	0.35	1.10	0.39
35.00	120.00	1.882	120.00	1.882	0.89	0.000	0.604	0.35	1.10	0.38

CSR is based on water table at 51.00 during earthquake

CRR Calculation from SPT or BPT data:

Depth ft	SPT	Cebs	Cr	sigma' atm	Cn	(N1)60	Fines %	d(N1)60	(N1)60f	CRR7.5
0.00	18.00	1.80	0.75	0.000	1.70	41.31	11.30	2.47	43.78	2.00
1.00	18.00	1.80	0.75	0.045	1.70	41.31	11.30	2.47	43.78	2.00
2.00	18.00	1.80	0.75	0.090	1.70	41.31	11.30	2.47	43.78	2.00
3.00	18.00	1.80	0.75	0.135	1.70	41.31	11.30	2.47	43.78	2.00
4.00	18.00	1.80	0.75	0.180	1.70	41.31	11.30	2.47	43.78	2.00
5.00	17.00	1.80	0.75	0.224	1.70	39.02	11.30	2.40	41.42	2.00
6.00	17.00	1.80	0.75	0.277	1.70	39.02	11.30	2.40	41.42	2.00
7.00	17.00	1.80	0.75	0.330	1.70	39.02	11.30	2.40	41.42	2.00
8.00	17.00	1.80	0.75	0.383	1.62	37.10	11.30	2.35	39.45	2.00
9.00	17.00	1.80	0.85	0.435	1.52	39.42	11.30	2.42	41.83	2.00
10.00	6.00	1.80	0.85	0.488	1.43	13.14	57.80	7.63	20.77	0.23
11.00	6.00	1.80	0.85	0.542	1.36	12.46	57.80	7.49	19.96	0.22
12.00	6.00	1.80	0.85	0.597	1.29	11.88	57.80	7.38	19.26	0.21
13.00	6.00	1.80	0.85	0.651	1.24	11.38	57.80	7.28	18.65	0.20
14.00	6.00	1.80	0.85	0.706	1.19	10.93	57.80	7.19	18.12	0.20
15.00	29.00	1.80	0.95	0.760	1.15	56.89	NoLiq	16.38	73.27	2.00
16.00	29.00	1.80	0.95	0.814	1.11	54.96	NoLiq	15.99	70.95	2.00
17.00	29.00	1.80	0.95	0.869	1.07	53.21	NoLiq	15.64	68.85	2.00
18.00	29.00	1.80	0.95	0.923	1.04	51.62	NoLiq	15.32	66.94	2.00
19.00	29.00	1.80	0.95	0.977	1.01	50.16	NoLiq	15.03	65.20	2.00
20.00	29.00	1.80	0.95	1.032	0.98	48.83	NoLiq	14.77	63.59	2.00
21.00	23.00	1.80	0.95	1.088	0.96	37.70	25.00	8.62	46.33	2.00
22.00	23.00	1.80	0.95	1.145	0.93	36.76	25.00	8.52	45.27	2.00
23.00	23.00	1.80	0.95	1.202	0.91	35.88	25.00	8.41	44.29	2.00
24.00	23.00	1.80	0.95	1.258	0.89	35.06	25.00	8.32	43.38	2.00
25.00	23.00	1.80	0.95	1.315	0.87	34.30	25.00	8.23	42.53	2.00
26.00	39.00	1.80	0.95	1.372	0.85	56.94	5.00	0.00	56.94	2.00
27.00	39.00	1.80	0.95	1.428	0.84	55.80	5.00	0.00	55.80	2.00
28.00	39.00	1.80	1.00	1.485	0.82	57.60	5.00	0.00	57.60	2.00
29.00	39.00	1.80	1.00	1.542	0.81	56.54	5.00	0.00	56.54	2.00
30.00	39.00	1.80	1.00	1.599	0.79	55.52	5.00	0.00	55.52	2.00
31.00	19.00	1.80	1.00	1.655	0.78	26.58	5.00	0.00	26.58	0.31
32.00	19.00	1.80	1.00	1.712	0.76	26.14	5.00	0.00	26.14	0.30
33.00	19.00	1.80	1.00	1.769	0.75	25.72	5.00	0.00	25.72	0.29
34.00	19.00	1.80	1.00	1.825	0.74	25.31	5.00	0.00	25.31	0.29
35.00	19.00	1.80	1.00	1.882	0.73	24.93	5.00	0.00	24.93	0.28

CRR is based on water table at 51.00 during In-Situ Testing

Factor of Safety, - Earthquake Magnitude= 7.45:

Depth ft	sigC' atm	CRR7.5	x Ksig	=CRRv	x MSF	=CRRm	CSRfs	F.S.=CRRm/CSRfs
0.00	0.00	2.00	1.00	2.00	1.02	2.03	0.43	5.00
1.00	0.03	2.00	1.00	2.00	1.02	2.03	0.43	5.00
2.00	0.06	2.00	1.00	2.00	1.02	2.03	0.43	5.00
3.00	0.09	2.00	1.00	2.00	1.02	2.03	0.43	5.00
4.00	0.12	2.00	1.00	2.00	1.02	2.03	0.43	5.00
5.00	0.15	2.00	1.00	2.00	1.02	2.03	0.43	5.00
6.00	0.18	2.00	1.00	2.00	1.02	2.03	0.43	5.00
7.00	0.21	2.00	1.00	2.00	1.02	2.03	0.42	5.00
8.00	0.25	2.00	1.00	2.00	1.02	2.03	0.42	5.00
9.00	0.28	2.00	1.00	2.00	1.02	2.03	0.42	5.00
10.00	0.32	0.23	1.00	0.23	1.02	0.23	0.42	5.00
11.00	0.35	0.22	1.00	0.22	1.02	0.22	0.42	5.00
12.00	0.39	0.21	1.00	0.21	1.02	0.21	0.42	5.00
13.00	0.42	0.20	1.00	0.20	1.02	0.20	0.42	5.00
14.00	0.46	0.20	1.00	0.20	1.02	0.20	0.42	5.00
15.00	0.49	2.00	1.00	2.00	1.02	2.00	0.42	5.00 ^
16.00	0.53	2.00	1.00	2.00	1.02	2.00	0.42	5.00 ^
17.00	0.56	2.00	1.00	2.00	1.02	2.00	0.41	5.00 ^
18.00	0.60	2.00	1.00	2.00	1.02	2.00	0.41	5.00 ^
19.00	0.64	2.00	1.00	2.00	1.02	2.00	0.41	5.00 ^
20.00	0.67	2.00	1.00	2.00	1.02	2.00	0.41	5.00 ^
21.00	0.71	2.00	1.00	2.00	1.02	2.03	0.41	5.00
22.00	0.74	2.00	1.00	2.00	1.02	2.03	0.41	5.00
23.00	0.78	2.00	1.00	2.00	1.02	2.03	0.41	5.00
24.00	0.82	2.00	1.00	2.00	1.02	2.03	0.41	5.00
25.00	0.85	2.00	1.00	2.00	1.02	2.03	0.41	5.00
26.00	0.89	2.00	1.00	2.00	1.02	2.03	0.41	5.00
27.00	0.93	2.00	1.00	2.00	1.02	2.03	0.40	5.00
28.00	0.97	2.00	1.00	2.00	1.02	2.03	0.40	5.00
29.00	1.00	2.00	1.01	2.01	1.02	2.05	0.40	5.00
30.00	1.04	2.00	1.00	2.00	1.02	2.03	0.40	5.00
31.00	1.08	0.31	0.99	0.31	1.02	0.31	0.40	5.00
32.00	1.11	0.30	0.99	0.30	1.02	0.30	0.39	5.00
33.00	1.15	0.29	0.98	0.29	1.02	0.29	0.39	5.00
34.00	1.19	0.29	0.98	0.28	1.02	0.29	0.39	5.00
35.00	1.22	0.28	0.97	0.27	1.02	0.28	0.38	5.00

* F.S.<1: Liquefaction Potential Zone. (If above water table: F.S.=5)
^ No-liquefiable Soils or above Water Table.
(F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

CPT convert to SPT for Settlement Analysis:
Fines Correction for Settlement Analysis:

Depth ft	Ic	qc/N60	qc1 atm	(N1)60	Fines %	d(N1)60	(N1)60s
0.00	-	-	-	43.78	11.30	0.00	43.78
1.00	-	-	-	43.78	11.30	0.00	43.78
2.00	-	-	-	43.78	11.30	0.00	43.78
3.00	-	-	-	43.78	11.30	0.00	43.78
4.00	-	-	-	43.78	11.30	0.00	43.78
5.00	-	-	-	41.42	11.30	0.00	41.42
6.00	-	-	-	41.42	11.30	0.00	41.42
7.00	-	-	-	41.42	11.30	0.00	41.42
8.00	-	-	-	39.45	11.30	0.00	39.45
9.00	-	-	-	41.83	11.30	0.00	41.83
10.00	-	-	-	20.77	57.80	0.00	20.77
11.00	-	-	-	19.96	57.80	0.00	19.96
12.00	-	-	-	19.26	57.80	0.00	19.26
13.00	-	-	-	18.65	57.80	0.00	18.65
14.00	-	-	-	18.12	57.80	0.00	18.12
15.00	-	-	-	73.27	NoLiq	0.00	73.27
16.00	-	-	-	70.95	NoLiq	0.00	70.95
17.00	-	-	-	68.85	NoLiq	0.00	68.85
18.00	-	-	-	66.94	NoLiq	0.00	66.94
19.00	-	-	-	65.20	NoLiq	0.00	65.20
20.00	-	-	-	63.59	NoLiq	0.00	63.59
21.00	-	-	-	46.33	25.00	0.00	46.33
22.00	-	-	-	45.27	25.00	0.00	45.27
23.00	-	-	-	44.29	25.00	0.00	44.29
24.00	-	-	-	43.38	25.00	0.00	43.38
25.00	-	-	-	42.53	25.00	0.00	42.53
26.00	-	-	-	56.94	5.00	0.00	56.94
27.00	-	-	-	55.80	5.00	0.00	55.80
28.00	-	-	-	57.60	5.00	0.00	57.60
29.00	-	-	-	56.54	5.00	0.00	56.54
30.00	-	-	-	55.52	5.00	0.00	55.52
31.00	-	-	-	26.58	5.00	0.00	26.58
32.00	-	-	-	26.14	5.00	0.00	26.14
33.00	-	-	-	25.72	5.00	0.00	25.72
34.00	-	-	-	25.31	5.00	0.00	25.31
35.00	-	-	-	24.93	5.00	0.00	24.93

(N1)60s has been fines corrected in liquefaction analysis, therefore d(N1)60=0.
Fines=NoLiq means the soils are not liquefiable.

Settlement of Saturated Sands:
Settlement Analysis Method: Ishihara / Yoshimine

Depth ft	CSRsf	/ MSF*	=CSRm	F.S.	Fines %	(N1)60s	Dr %	ec %	dsz in.	dsp in.	S in.
No Settlement of Saturated Sands											

Settlement of Saturated Sands=0.000 in.
qc1 and (N1)60 is after fines correction in liquefaction analysis
dsz is per each segment, dz=0.05 ft
dsp is per each print interval, dp=1.00 ft
S is cumulated settlement at this depth

Settlement of Unsaturated Sands:

Depth ft	sigma' atm	sigC' atm	(N1)60s	CSRsf	Gmax atm	g*Ge/Gm	g_eff	ec7.5 %	Cec	ec %	dsz in.	dsp in.	S in.
35.45	1.91	1.24	100.00	0.38	2307.87	3.2E-4	0.0647	0.0205	1.04	0.0214	2.56E-4	0.000	0.000
35.00	1.88	1.22	24.93	0.38	1443.41	5.0E-4	0.2204	0.1627	1.04	0.1700	2.04E-3	0.004	0.004
34.00	1.83	1.19	25.31	0.39	1428.76	5.0E-4	0.2121	0.1534	1.04	0.1602	1.92E-3	0.040	0.044
33.00	1.77	1.15	25.72	0.39	1413.80	4.9E-4	0.2037	0.1443	1.04	0.1507	1.81E-3	0.037	0.081
32.00	1.71	1.11	26.14	0.39	1398.52	4.8E-4	0.1953	0.1353	1.04	0.1413	1.70E-3	0.035	0.116
31.00	1.66	1.08	26.58	0.40	1382.90	4.8E-4	0.1869	0.1265	1.04	0.1321	1.59E-3	0.033	0.149
30.00	1.60	1.04	55.52	0.40	1736.77	3.7E-4	0.0922	0.0292	1.04	0.0305	3.66E-4	0.029	0.178
29.00	1.54	1.00	56.54	0.40	1715.97	3.6E-4	0.0876	0.0277	1.04	0.0289	3.47E-4	0.007	0.185
28.00	1.49	0.97	57.60	0.40	1694.66	3.5E-4	0.0830	0.0263	1.04	0.0274	3.29E-4	0.007	0.192
27.00	1.43	0.93	55.80	0.40	1644.47	3.5E-4	0.0818	0.0259	1.04	0.0270	3.24E-4	0.007	0.199
26.00	1.37	0.89	56.94	0.41	1622.40	3.4E-4	0.0774	0.0245	1.04	0.0255	3.07E-4	0.006	0.205
25.00	1.31	0.85	42.53	0.41	1441.42	3.7E-4	0.0930	0.0294	1.04	0.0307	3.69E-4	0.006	0.211
24.00	1.26	0.82	43.38	0.41	1419.34	3.6E-4	0.0874	0.0276	1.04	0.0289	3.46E-4	0.007	0.218
23.00	1.20	0.78	44.29	0.41	1396.63	3.5E-4	0.0819	0.0259	1.04	0.0270	3.25E-4	0.007	0.225
22.00	1.14	0.74	45.27	0.41	1373.24	3.4E-4	0.1396	0.0442	1.04	0.0461	5.53E-4	0.007	0.232
21.00	1.09	0.71	46.33	0.41	1349.10	3.3E-4	0.1241	0.0392	1.04	0.0410	4.92E-4	0.010	0.243
20.00	1.03	0.67	63.59	0.41	1459.66	2.9E-4	0.0797	0.0252	1.04	0.0263	0.00E0	0.009	0.252
19.00	0.98	0.64	65.20	0.41	1432.55	2.8E-4	0.0722	0.0228	1.04	0.0238	0.00E0	0.000	0.252
18.00	0.92	0.60	66.94	0.41	1404.46	2.7E-4	0.0653	0.0207	1.04	0.0216	0.00E0	0.000	0.252
17.00	0.87	0.56	68.85	0.41	1375.30	2.6E-4	0.0591	0.0187	1.04	0.0195	0.00E0	0.000	0.252
16.00	0.81	0.53	70.95	0.42	1344.94	2.5E-4	0.0534	0.0169	1.04	0.0176	0.00E0	0.000	0.252
15.00	0.76	0.49	73.27	0.42	1313.27	2.4E-4	0.0482	0.0153	1.04	0.0159	0.00E0	0.000	0.252
14.00	0.71	0.46	18.12	0.42	794.61	3.7E-4	0.1973	0.2210	1.04	0.2308	2.77E-3	0.059	0.311
13.00	0.65	0.42	18.65	0.42	770.85	3.5E-4	0.1609	0.1735	1.04	0.1812	2.17E-3	0.049	0.360
12.00	0.60	0.39	19.26	0.42	745.90	3.4E-4	0.1308	0.1353	1.04	0.1413	1.70E-3	0.038	0.398
11.00	0.54	0.35	19.96	0.42	719.61	3.2E-4	0.1060	0.1047	1.04	0.1093	1.31E-3	0.030	0.428

10.00	0.49	0.32	20.77	0.42	691.72	3.0E-4	0.3210	0.3010	1.04	0.3144	3.77E-3	0.113	0.541
9.00	0.44	0.28	41.83	0.42	824.88	2.2E-4	0.0483	0.0153	1.04	0.0160	1.91E-4	0.004	0.545
8.00	0.38	0.25	39.45	0.42	758.35	2.1E-4	0.0436	0.0143	1.04	0.0149	1.79E-4	0.004	0.549
7.00	0.33	0.21	41.42	0.42	715.68	2.0E-4	0.0385	0.0122	1.04	0.0127	1.53E-4	0.003	0.552
6.00	0.28	0.18	41.42	0.43	656.00	1.8E-4	0.0340	0.0107	1.04	0.0112	1.35E-4	0.003	0.555
5.00	0.22	0.15	41.42	0.43	590.31	1.6E-4	0.0339	0.0107	1.04	0.0112	1.34E-4	0.003	0.557
4.00	0.18	0.12	43.78	0.43	537.82	1.4E-4	0.0271	0.0086	1.04	0.0090	1.08E-4	0.002	0.560
3.00	0.13	0.09	43.78	0.43	465.77	1.2E-4	0.0230	0.0073	1.04	0.0076	9.10E-5	0.002	0.561
2.00	0.09	0.06	43.78	0.43	380.31	1.0E-4	0.0204	0.0065	1.04	0.0067	8.09E-5	0.002	0.563
1.00	0.04	0.03	43.78	0.43	268.93	7.2E-5	0.0120	0.0038	1.04	0.0040	4.75E-5	0.001	0.565
0.00	0.00	0.00	43.78	0.43	4.01	1.1E-6	0.0010	0.0003	1.04	0.0003	4.03E-6	0.001	0.565

Settlement of Unsaturated Sands=0.565 in.
dsz is per each segment, dz=0.05 ft
dsp is per each print interval, dp=1.00 ft
S is cumulated settlement at this depth

Total Settlement of Saturated and Unsaturated Sands=0.565 in.

Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

1 atm (atmosphere) = 1.0581 tsf(1 tsf = 1 ton/ft2 = 2 kip/ft2)
1 atm (atmosphere) = 101.325 kPa(1 kPa = 1 kN/m2 = 0.001 Mpa)

SPT	Field data from Standard Penetration Test (SPT)
BPT	Field data from Becker Penetration Test (BPT)
qc	Field data from Cone Penetration Test (CPT) [atm (tsf)]
fs	Friction from CPT testing [atm (tsf)]
Rf	Ratio of fs/qc (%)
gamma	Total unit weight of soil
gamma'	Effective unit weight of soil
Fines	Fines content [%]
D50	Mean grain size
Dr	Relative Density
sigma	Total vertical stress [atm]
sigma'	Effective vertical stress [atm]
sigC'	Effective confining pressure [atm]
rd	Acceleration reduction coefficient by Seed
a_max.	Peak Ground Acceleration (PGA) in ground surface
mZ	Linear acceleration reduction coefficient X depth
a_min.	Minimum acceleration under linear reduction, mZ
CRRv	CRR after overburden stress correction, CRRv=CRR7.5 * Ksig
CRR7.5	Cyclic resistance ratio (M=7.5)
Ksig	Overburden stress correction factor for CRR7.5
CRRm	After magnitude scaling correction CRRm=CRRv * MSF
MSF	Magnitude scaling factor from M=7.5 to user input M
CSR	Cyclic stress ratio induced by earthquake
CSRfs	CSRfs=CSR*fs1 (Default fs1=1)
fs1	First CSR curve in graphic defined in #9 of Advanced page
fs2	2nd CSR curve in graphic defined in #9 of Advanced page
F.S.	Calculated factor of safety against liquefaction F.S.=CRRm/CSRsf
Cebs	Energy Ratio, Borehole Dia., and Sampling Method Corrections
Cr	Rod Length Corrections
Cn	Overburden Pressure Correction
(N1)60	SPT after corrections, (N1)60=SPT * Cr * Cn * Cebs
d(N1)60	Fines correction of SPT
(N1)60f	(N1)60 after fines corrections, (N1)60f=(N1)60 + d(N1)60
Cq	Overburden stress correction factor
qc1	CPT after Overburden stress correction
dqc1	Fines correction of CPT
qc1f	CPT after Fines and Overburden correction, qc1f=qc1 + dqc1
qc1n	CPT after normalization in Robertson's method
Kc	Fine correction factor in Robertson's Method
qc1f	CPT after Fines correction in Robertson's Method
Ic	Soil type index in Suzuki's and Robertson's Methods
(N1)60s	(N1)60 after settlement fines corrections
CSRm	After magnitude scaling correction for Settlement calculation CSRm=CSRsf / MSF*
CSRfs	Cyclic stress ratio induced by earthquake with user inputed fs
MSF*	Scaling factor from CSR, MSF*=1, based on Item 2 of Page C.
ec	Volumetric strain for saturated sands
dz	Calculation segment, dz=0.050 ft
dsz	Settlement in each segment, dz
dp	User defined print interval
dsp	Settlement in each print interval, dp
Gmax	Shear Modulus at low strain
g_eff	gamma_eff, Effective shear Strain
g*Ge/Gm	gamma_eff * G_eff/G_max, Strain-modulus ratio
ec7.5	Volumetric Strain for magnitude=7.5
Cec	Magnitude correction factor for any magnitude
ec	Volumetric strain for unsaturated sands, ec=Cec * ec7.5
NoLiq	No-Liquefy Soils

References:

1. NCEER Workshop on Evaluation of Liquefaction Resistance of Soils. Youd, T.L., and Idriss, I.M., eds., Technical Report NCEER 97-0022.
SP117. Southern California Earthquake Center. Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Liquefaction in California. University of Southern California. March 1999.
2. RECENT ADVANCES IN SOIL LIQUEFACTION ENGINEERING AND SEISMIC SITE RESPONSE EVALUATION, Paper No. SPL-2, PROCEEDINGS: Fourth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, CA, March 2001.
3. RECENT ADVANCES IN SOIL LIQUEFACTION ENGINEERING: A UNIFIED AND CONSISTENT FRAMEWORK, Earthquake Engineering Research Center, Report No. EERC 2003-06 by R.B Seed and etc. April 2003.

Note: Print Interval you selected does not show complete results. To get complete results, you should select 'Segment' in Print Interval (Item 12, Page C).

APPENDIX E

PHOTOGRAPH LOG

Photograph No. 1: Viewing southeast along the trace of the Lenwood fault on the south side of the Interstate 15 freeway. Clipboard placed along the trace of the fault.

Photograph No. 2: Viewing northwest along the trace of the Lenwood fault on the south side of the Interstate 15 freeway. Soil with coarse gravel, cobbles and boulders with very little sparse grasses vegetation growth are shown on the northeast side of the fault while the southwest side of the fault includes soil with fine gravel and abundant dried grasses vegetation growth.

Photograph No. 3: Viewing southeast along the trace of the Lenwood fault on the south side of the Interstate 15 freeway.

Photograph No. 4: Viewing in a southwest direction on the south side of the Interstate I-15 freeway, perpendicular to the Lenwood fault, where offset of a drainage was observed along the trace of the Lenwood fault. Drainage shows a few feet of right-lateral strike-slip offset from the Lenwood fault.

Photograph No. 5: Viewing northwest along shallow linear swale on the right side of an unpaved dirt road. This linear swale was mapped by others as being an active trace of the Lenwood fault. Sandstone on left side of the fault trace is absent on the right side of the fault trace (linear swale).

Photograph No. 6: Viewing southeast (opposite direction of picture above) along linear swale on the left of unpaved dirt road. Sandstone shown on right side of the Lenwood fault trace is absent on the left side of the fault trace (linear swale).

Photograph No. 7: Viewing west from southeast corner of subject site while standing on elevated ridge of volcanic rocks.

Photograph No. 8: Viewing north from southeast corner of subject site while standing on elevated ridge of volcanic rocks.

Photograph No. 9: Viewing east along top of S-shaped ridge in southeastern portion of the subject site where bedding planes of steeply dipping volcanic rocks were observed. This volcanic bed dipped down about 50 degrees to the south.

Photograph No. 10: Viewing west (opposite direction of picture above) at another bedding plane of steeply dipping volcanic rocks. Two distinct layers of steeply dipping volcanic rock were noted along the top of the S-shaped ridge and followed the shape of the ridge. Where the clipboard is shown, this volcanic bed dipped down about 43 degrees to the south. No evidence of offset of the steeply dipping volcanic beds was observed that would be indicative of faulting at the ground surface.

Photograph No. 11: Viewing east along S-shaped ridge where bedding plane of volcanic rock dipping down about 38 degrees to the south was observed in south-central portion of the subject site.

Photograph No.12: Viewing north at a second ridge of volcanic rock that is about 475 feet north of the first ridge shown in Photograph Nos. 9 through 11. This ridge also had volcanic rock that trended east to west along the top of the ridge and dipped down 58 degrees to the south. No evidence of offset of the steeply dipping volcanic beds was observed that would be indicative of faulting at the ground surface.

Photograph No. 13: Viewing west along a third ridge of volcanic rock dipping down 77 degrees to the south with spray painted graffiti and located in the central-eastern portion of the site. No evidence of faulting of this steeply dipping volcanic bed was observed.

Photograph No. 14: Viewing west along the south side of a fourth ridge of steeply dipping volcanic rock located in the northern portion of the site. Unlike most areas of the site, the volcanic beds along the south side of this ridge dipped down 56 to 65 degrees to the north.

Photograph No. 15: Viewing west along the north side of the fourth ridge of steeply dipping volcanic rock located in the northern portion of the site. These beds dipped 80 degrees to the south. No evidence of faulting of the steeply dipping volcanic beds was observed along this fourth ridge.

Photograph No. 16: Viewing east from the central-western portion of the site. Areas of the site lower in elevation were either covered by sand and scattered gravel-size pieces of rock or by eolian 'dune-like" fine-grained sands as shown in the photograph above. No evidence of faulting was observed along the ground surface in any of the areas of the site lower in elevation.

Photograph No. 17: Google Earth aerial image from 2009 showing strike and dip bedding attitudes recorded along bedding planes of volcanic rock along the top of four different ridges and linear swale noted along an active portion of the Lenwood fault.

Lenwood Road Logistics Facility

Fault Rupture Hazard Investigation Report

August 8, 2025 | Terracon Project No. CB255099

Barstow, California

Prepared for:

Dudek, Inc.
605 Third Street
Encinitas, CA 92024

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August 8, 2025

Dudek, Inc.
605 Third Street
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Attn: Mr. Kevin DiSabatino
P: (760) 415-9520
E: kdisabatino@dudek.com

Re: Fault Rupture Hazard Investigation Report
Lenwood Road Logistics Facility
North of Camino del Norte, East of Lenwood Road
Barstow, California
Terracon Project No. CB255099

Dear Mr. DiSabatino:

We have completed the scope of Fault Rupture Hazard Investigation services for the above referenced project in general accordance with a revised proposal dated July 1, 2025. This report presents the findings of the subsurface exploration and provides a summary of findings regarding fault rupture potential for the proposed project. Our investigation found that the project is not affected by potentially hazardous fault traces and may be developed as proposed.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.

Sincerely,

Terracon

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Attachments

Site Location Plan and Maps
Exploration Results

Note: This report was originally delivered in a web-based format. Blue Bold text in the report indicates a referenced section heading. The PDF version also includes hyperlinks which direct the reader to that section and clicking on the Terracon logo will bring you back to this page. For more interactive features, please view your project online at client.terracon.com.

Refer to each individual Attachment for a listing of contents.

Introduction

This report presents the results of fault trench excavation and logging performed to address the potential for fault rupture hazard at a proposed logistics project site located in Barstow, San Bernardino County, California.

The project is located north of Camino del Norte and east of Lenwood Road approximately ½ mile north of Main Street. State Route 58 is approximately 1.6 miles north of the site. The site area is approximately 96 acres.

A consultant's report (Moore Twining, 2024) postulated a projection of mapped faulting toward the site and recommended further study for habitable structures planned within a hypothetical northwest zone of projection. Exploration of the projected fault trend within the southeastern portion of the site is the subject of this report.

The subject fault feature is listed in the pamphlet to accompany California Geologic Survey Fault Activity Map of California (2010) as #375, 'Lenwood Fault Creep'. It also appears on the web-based application https://maps.conservation.ca.gov/cgs/fam/ that is a digitized version of the Fault Activity Map.

The site is not within a State-designated fault hazard zone (AP Fault Zone Map) or County-designated fault zone (County Fault Map).

We referenced the following documents in developing the scope of this investigation:

- County of San Bernardino Fault-Rupture Hazard Investigation and Report Standards No. A-146.
- California Geological Survey Special Publication 42, Earthquake Fault Zones, A Guide for Government Agencies, Property Owners/Developers, and Geoscience Practitioners for Assessing Fault Rupture Hazards in California (2018).
- California Geological Survey Note 49, Guidelines for Evaluating and Mitigating Seismic Hazards in California (2002).

We excavated and logged fault trenches oriented perpendicular to the projection of the mapped fault feature to evaluate the presence/absence of hazardous faults associated with the mapped fault zone (see Trench Location Map).

Scope of Services

Our scope of services, as outlined in the revised proposal dated July 1, 2025 included the following:

- We examined available aerial imagery dating back to the 1920s, including false-color frames
- We examined LiDAR imagery from https://apps.nationalmap.gov/3depdem/.
- We reviewed geologic maps and reports for information regarding faults associated with the mapped fault zone identified in the Moore Twining (2024) report
- Dudek marked site limits and notified Underground Service Alert of southern California for utility clearance
- We directed excavation of two exploratory trenches located to intercept the projected trend of faulting identified on the consultant's and original source map, cleaned, and logged the trenches
- We notified the authorizing agency (County of San Bernardino Land Use Services) prior to backfilling the trench exposure. Agency representatives visited the site on July 25, 2025 to examine the open trench
- We prepared this report

Maps showing the site location and trench locations are attached as Site Location and Trench Location Map, respectively. An AP Fault Zone Map showing the site in relation to State-designated fault hazard zones is attached. A County Fault Map showing the site relative to County-designated fault zones is also included.

Geologic Setting

The site is located in an unincorporated area of Barstow, California on the northwest flank of a broad regional uplift that exposes sedimentary rocks. The uplift lies within the Mojave Desert Geomorphic Province, a region of broad alluviated basins receiving sediments from adjacent uplands. The normally dry channel of the Mojave River forms a sandy flatland with associated dune features northwest of the site.

The subject fault feature lies within a zone of transition between the Lenwood and Lockhart faults that is covered by young alluvium of the Mojave River and deposits of a low-lying valley. The Lenwood-Lockhart fault zone (LLFZ) is one of a series of northwest-trending strike slip faults that comprise the Eastern California Shear Zone (ECSZ) - a zone of subparallel, right-lateral strike slip faults estimated to accommodate up to 25% of Pacific/North American Plates slip. The ECSZ is associated with historical earthquakes including the magnitude 7.3 Landers and magnitude 7.1 Hector Mine events in 1992 1999, respectively. A Regional Fault Map showing the site location in relation to regional faults is attached.

Based on geologic mapping by Miller and others (2020), the geologic materials beneath the trench site consist of sedimentary beds of the Barstow Formation (see Geologic Map 1). Geologic mapping by Dibblee and Minch (2008) provides greater detail of bedding and describes site materials as: (Ts) interbedded shale and sandstone (Pliocene); (Tsl) limestone, tan, hard (Pliocene); and (Trb) rhyolite breccia (Miocene).

As encountered in trench exposures, the Barstow Formation includes massive to locally well-bedded arkosic fine-grained sandstone with minor siltstone beds and well-bedded siltstone with coarse-grained sandstone intervals. All of the clastic materials are derived from volcanic sources with siltstone and localized claystone beds appearing lacustrine in origin. Arcuate ridgelines within the site are formed by resistant limestone beds within the Barstow Formation. Examination of the ridgelines revealed tan limestone beds with siliceous lenses (locally chert). Bedding is consistently southwest-dipping at moderate to locally steep angles.

Review of Published Data and Maps

Documents and publications reviewed for this evaluation include:

- Bryant, W.A., and the California Division of Mines and Geology, July 20, 1987, Fault Evaluation Report FER-189, Recently Active Traces of the Blackwater, Harper, Lockhart and Related Faults near Barstow, San Bernardino County.
- Dibblee, T.W., 1960, Geologic map of the Barstow quadrangle, San Bernardino County, California, U.S. Geological Survey, Mineral Investigations Field Studies Map MF-233, 1:62,500
- Dibblee, T.W. and Minch, J.A., 2008, Geologic map of the Barstow & Daggett 15-minute quadrangles, San Bernardino County, California, Dibblee Geological Foundation, Dibblee Foundation Map DF-393, 1:62,500.
- Jennings, C.W., and Bryant, W.A., 2010 Fault Activity Map of California: California Geological Survey, Geologic Data Map No. 6.
- Manson, M., California Division of Mines and Geology, June 11, 1986, Fault Evaluation Report FER-177, Lenwood Fault, Old Woman Springs Fault, and Silver Reef Fault, San Bernardino County.
- Miller, D.M., Langenheim, V.E., and Haddon, E.K., 2020, Geologic map and borehole stratigraphy of Hinkley Valley and vicinity, San Bernardino County, California, U.S. Geological Survey, Scientific Investigations Map SIM-3458, 1:24,000.
- Moore Twining Associates, 2024, Geologic/Seismic Hazards Report, Proposed Electric Charging Truck Station with Travel Center, APNs 0497-142-(03, 04, 14, and 15), Southeast of Lenwood Road and Agate Road, Barstow, San Bernardino County, California, report dated June 25, 2024.

- Moore Twining Associates, 2024, Response to San Bernardino County Review, Preliminary Geotechnical Engineering Investigation, Proposed Electric Charging Truck Station with Travel Center, APNs 0497-142-(03, 04, 14, and 15), Southeast of Lenwood Road and Agate Road, Barstow, San Bernardino County, California, report dated July 29, 2022.
- Moore Twining Associates, 2022, Preliminary Geotechnical Engineering Investigation, Proposed Electric Charging Truck Station with Travel Center, APNs 0497-142-(03, 04, 14, and 15), Southeast of Lenwood Road and Agate Road, Barstow, San Bernardino County, California, report dated July 29, 2022.
- Morton, D.M., Miller, F.K., and Smith, C.C., 1980, Photoreconnaissance Maps Showing Young-Looking Fault Features in the Southern Mojave Desert, California, U.S. Geological Survey Miscellaneous Field Studies Map MF-1051, Sheets 1 and 2 of 7.
- U.S. Geological Survey, U.S. Quaternary Faults, web-based map application, https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=5a6038b3a1684561a9b0aadf88412fcf.

The U.S. Quaternary Faults map application includes the fault trend projected toward the southeast portion of the site parcel (labeled as ‘shallow linear swale’). The original source of this mapped trace appears to be the Morton and others (1980) map, sheet 2. Morton and others based their work on examination of aerial imagery and did not field check their map.

The 1980 Morton map labels a northwest-trending fault as ‘shallow linear swale’ and is included in FER 177 (Manson, 1986) with annotations describing features within a housing tract south of Main Street and southeast of the site. Offset and cracked walls/street features and building damage are noted. Manson (1986) states in FER 177 that evidence of possible fault creep (damage to housing tract) in Lenwood was examined in the field but could not be verified as being fault-related. The Barstow quadrangle topographic map panel that includes the site and projected fault (shallow linear swale) was not recommended for zoning per the conclusions of Manson (1986).

FER 189 (Bryant, 1987) utilized a geologic base map by Dibblee (1960) to summarize fault features associated with the Lockhart fault near Barstow. An inferred/buried fault trace is shown by Dibblee trending beyond (outside of) the northeast corner of the site parcel. No feature is included in FER 189 that corresponds with the ‘shallow linear swale’ feature identified by Morton and others (1980).

Aerial Photographs

Aerial imagery dating from 1929 through 2024 was examined for evidence of faulting and past land usage for this investigation. A list of aerial imagery is attached. The following were noted in the imagery examined:

- The greater project parcel appears undeveloped and sparsely vegetated in all imagery.
- Vehicle tracks and paths are visible within the parcel
- A prominent set of arcuate ridgelines are visible in the southern portion of the parcel that correspond with resistant bedrock outcrops (limestone) observed during site reconnaissance.
- Tonal, topographic, or vegetative lineaments were not noted along or near the trend of the 'shallow linear swale' feature indicated by Morton and others (1980) southeast of the site.
- Development of the residential tract south of the site is evident after September 1995.

Evidence for faults or fault-related features was not observed within or southeast of the site parcel in the area of the 'shallow linear swale'.

Regulatory Considerations

The mapped fault trend identified in Morton and others (1980) as 'shallow linear swale' is not included in State or County fault hazard zone maps. Therefore, investigation of the feature as recommended by Moore Twining is at the discretion of the authorizing agency (County of San Bernardino). Representatives of the County examined the fault trench excavations prior to backfill.

Trench Exploration

Two exploratory fault trenches were extended across the trend of the mapped 'shallow linear swale' feature as projected within the southeastern portion of the site. The trenches were approximately 300 feet (T-1) and 100 feet (T-2) long and 10 feet to 5 feet deep and were configured as benched excavations where necessary for safety and access considerations. The trench locations were staked in the field by Terracon prior to excavation. The trench locations are shown on Trench Location Map.

The trenches were excavated with a track-mounted excavator using a 42-inch-wide bucket. The trenches were cleaned and examined for indications of shear/fault features and logged. Horizontal stationing was established with a tape and relative vertical control was provided with a manometer-type level.

Logs of the trenches are included in Exploration Results. The Barstow Formation, as exposed in the site trenches, includes massive to locally well-bedded arkosic fine-grained sandstone with minor siltstone beds and well-bedded siltstone with coarse-grained sandstone intervals. All of the clastic materials are derived from volcanic sources with siltstone and localized claystone beds appearing of lacustrine origin. Bedding is

consistently southwest dipping at moderate to steep angles. A fold in bedding was observed at Station 297 in T-1 and Station 095 in T-2. The fold axis trend is approximately 282 degrees.

The strata in the trench exposures included surface soil profiles developed in alluvium and on underlying bedrock. Rock strata included sandstone and siltstone locally overlain/cut by paleochannel deposits. Surface soils along the southern portion of Trench T-1 included a veneer of eolian deposits overlying and older soil horizon that extends throughout the trenched area.

The observed pedogenic materials are considered to be pre-Holocene in age based on:

- Presence of argillic coatings and associated color hues
- Degree of cementation
- secondary carbonate content
- Development of blocky pedogenic structure
- Character of lag gravel/cobble clasts on the ground surface

The paleochannel deposits exhibit soil development and carbonate features/content consistent with a pre-Holocene age. This was verified by project personnel trained in soils age estimation for archaeological assessment.

We estimate a minimum age range from approximately 100K years bp to 15K years bp for the argillic soils mantling the trenched area.

The exposures were observed by a Certified Engineering Geologist from Terracon and County of San Bernardino. It was agreed by both parties that the argillic soils exhibit pre-Holocene age characteristics and that no evidence of active faulting was observed in the trenches.

The trenches were backfilled without moisture condition or compactive effort. The trench backfill is not considered suitable for structural support of buildings or flatwork. All trench backfill should be removed and replaced with engineered compacted backfill prior to any construction on or near it.

Discussion and Conclusions

The subject mapped fault-related feature, originally identified as ‘shallow linear swale’ by Morton and others (1980), is defined on a photoreconnaissance map that was not field checked. Examination of aerial photographs and field observations did not reveal a feature(s) consistent with faulting at the location of the subject feature. The feature was not included in the figures in FER 177 that identify faults recommended for zoning under the AP Act. The State and County do not recognize the feature on maps delineating potentially hazardous faults.

Evidence for the presence of active/hazardous faulting was not observed in the trenches placed across the project trend of the mapped feature.

The subject feature is listed as #375, 'Lenwood Fault Creep', in the pamphlet to accompany California Geologic Survey Fault Activity Map of California (2010). It also appears on the web-based application https://maps.conservation.ca.gov/cgs/fam/.

Based on the trench exposures placed within the site, active faulting associated with the projection of the subject feature is not present within the site. Geomorphic or erosional features on trend with the subject feature may have been observed by Morton and others (1980) in their photoreconnaissance work; however, we were not able to duplicate such a feature in aerial imagery we examined.

With regard to faulting or seismic hazards for the project site, the potential for strong ground shaking is the higher hazard and can be addressed by design and construction consistent with applicable building codes. This report addresses the potential for surface fault rupture and does not include other geologic or geohazards considerations such as landsliding, seismic shaking, engineering properties of soils/rock. The geohazards report by Moore Twining (2024) provides a discussion of these topics.

The trench was backfilled without compaction with the excavated materials and moisture for dust control. The trench backfill is not considered suitable for structural support of buildings or flatwork. All trench backfill should be removed and replaced with engineered compacted backfill prior to any construction on or near it.

General Comments

Our analysis and opinions are based upon our understanding of the project, the geotechnical conditions in the area, and the data obtained from our site exploration. Variations will occur between exploration point locations or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. Terracon should be retained as the Geotechnical Engineer, where noted in this report, to provide observation and testing services during pertinent construction phases. If variations appear, we can provide further evaluation and supplemental recommendations. If variations are noted in the absence of our observation and testing services on-site, we should be immediately notified so that we can provide evaluation and supplemental recommendations.

Our Scope of Services does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner

is concerned about the potential for such contamination or pollution, other studies should be undertaken.

Our services and any correspondence are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices with no third-party beneficiaries intended. Any third-party access to services or correspondence is solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

Site characteristics as provided are for design purposes and not to estimate excavation cost. Any use of our report in that regard is done at the sole risk of the excavating cost estimator as there may be variations on the site that are not apparent in the data that could significantly affect excavation cost. Any parties charged with estimating excavation costs should seek their own site characterization for specific purposes to obtain the specific level of detail necessary for costing. Site safety and cost estimating including excavation support and dewatering requirements/design are the responsibility of others. Construction and site development have the potential to affect adjacent properties. Such impacts can include damages due to vibration, modification of groundwater/surface water flow during construction, foundation movement due to undermining or subsidence from excavation, as well as noise or air quality concerns. Evaluation of these items on nearby properties are commonly associated with contractor means and methods and are not addressed in this report. The owner and contractor should consider a preconstruction/precondition survey of surrounding development. If changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.

References

California Geological Survey Earthquake Zones of Required Investigation, accessed 2024, https://maps.conservation.ca.gov/cgs/EQZApp/app.

California Geological Survey Special Publication 42, Earthquake Fault Zones, A Guide for Government Agencies, Property Owners/Developers, and Geoscience Practitioners for Assessing Fault Rupture Hazards in California (2018).

California Geological Survey Note 49, Guidelines for Evaluating and Mitigating Seismic Hazards in California (2002).

United States Geological Survey, Faults, Quaternary Fault and Fold Database of the United States: U.S. Geological Survey website, https://earthquake.usgs.gov/hazards/qfaults/, accessed 11/27/2019 9:00am.

List of Aerial Images

Google Earth: web-based software application, aerial imagery dated September 30, 1995; June 27, 2003; December 31, 2004; December 31, 2005; January 31, 2009; May 24, 2009; April 27, 2013; August 29, 2014; January 7, 2021; May 7, 2022; June 3, 2023.

Terracon Collection:

July 12, 1983, black and white aerial photograph no. 117.

March 18, 1989. Black and white aerial photograph no. 437.

Fairchild Aerial Photograph Collection, University of California, Santa Barbara

Fairchild, 1929, black and white aerial photograph nos. 57, 58, and 59, dated 10/1/1929, flight no. C-679.

Fairchild, 1953, black and white aerial photograph nos. AXL 1953B, 25K-54 and -55, dated 1/9/1953.

Fairchild, 1959, black and white aerial photograph nos. AXL-5W-70 and -71, dated 7/26/1959

Fairchild, 1989, false color aerial photograph no. NAPP 1830-171, dated 7/16/1989.

National Agricultural Imagery Program (NAIP)

Aerial images dated: 2005, 2009, 2010, 2012, 2014, 2016, 2018, 2020, and 2022. False color images were available for dates from 2014 to 2022.

Attachments

Site Location Plan and Maps

Contents:

Site Location
AP Fault Zone Map
County Fault Map
Regional Fault Map
Trench Location Map
Trench Location Topographic Map
Geologic Map 1
Geologic Map 2
USGS Fault Map 1980

Note: All attachments are one page unless noted above.

Site Location

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES MAP PROVIDED BY MICROSOFT BING MAPS

AP Fault Zone Map

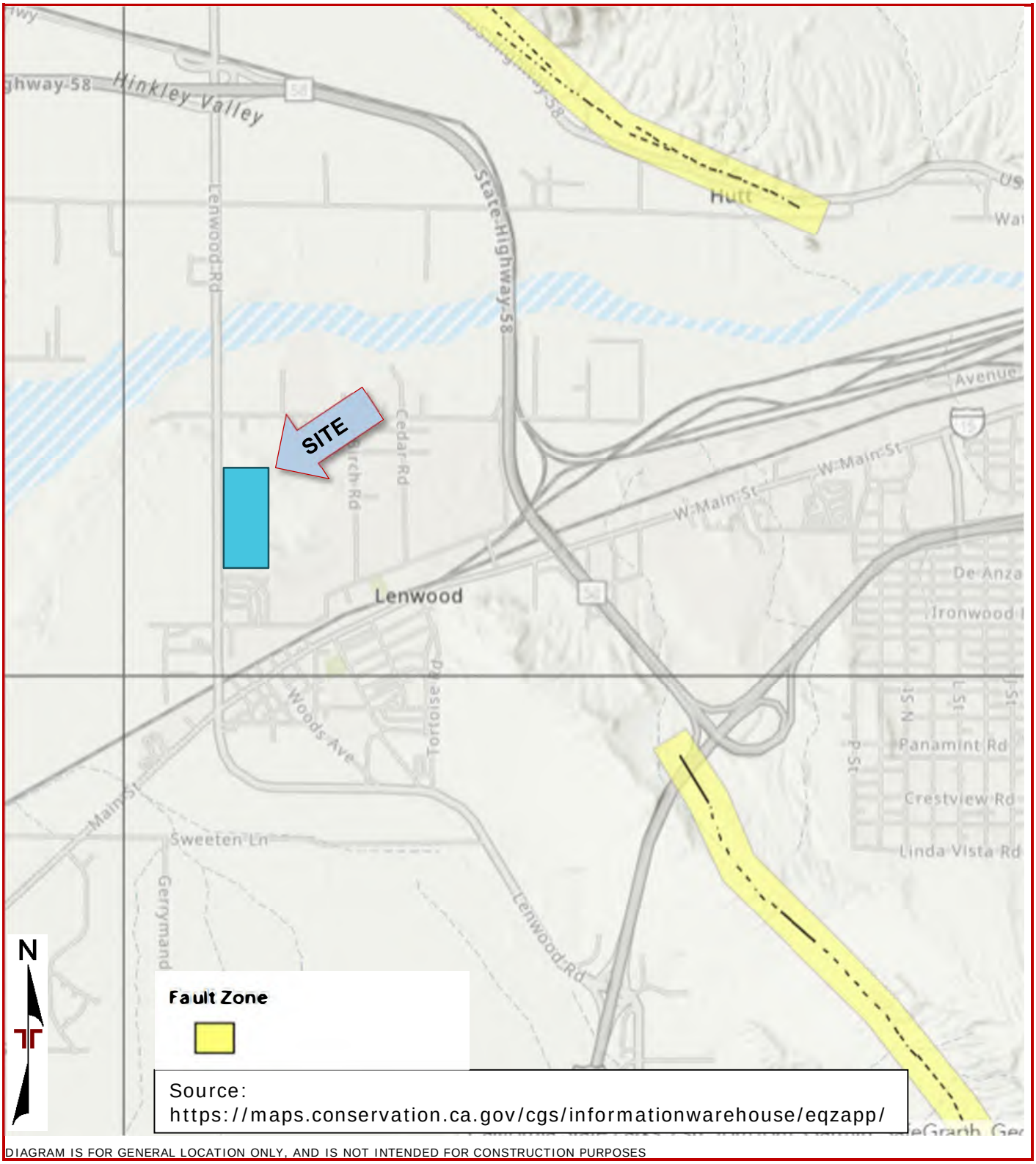


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

County Fault Map

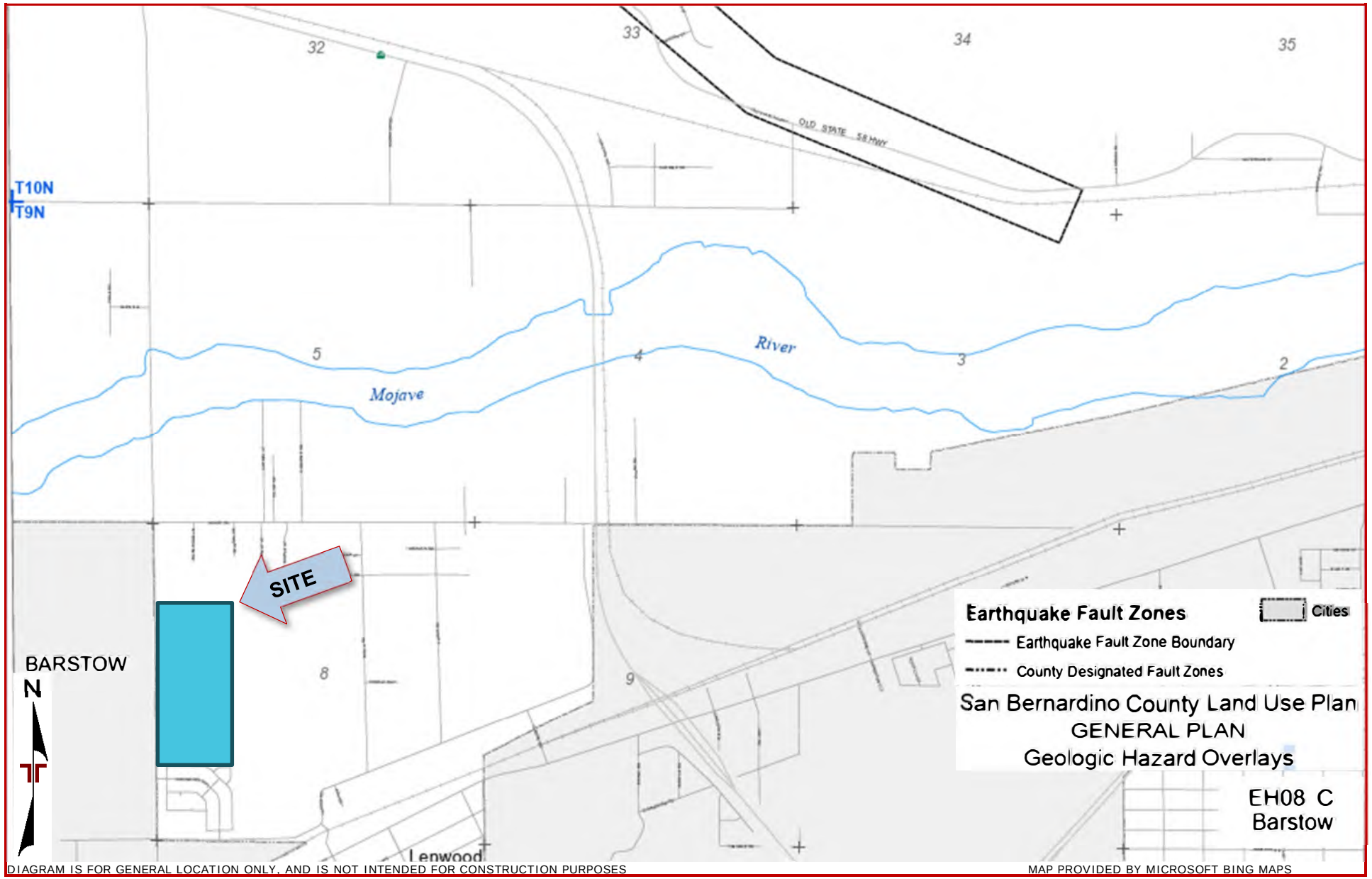


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

Regional Fault Map

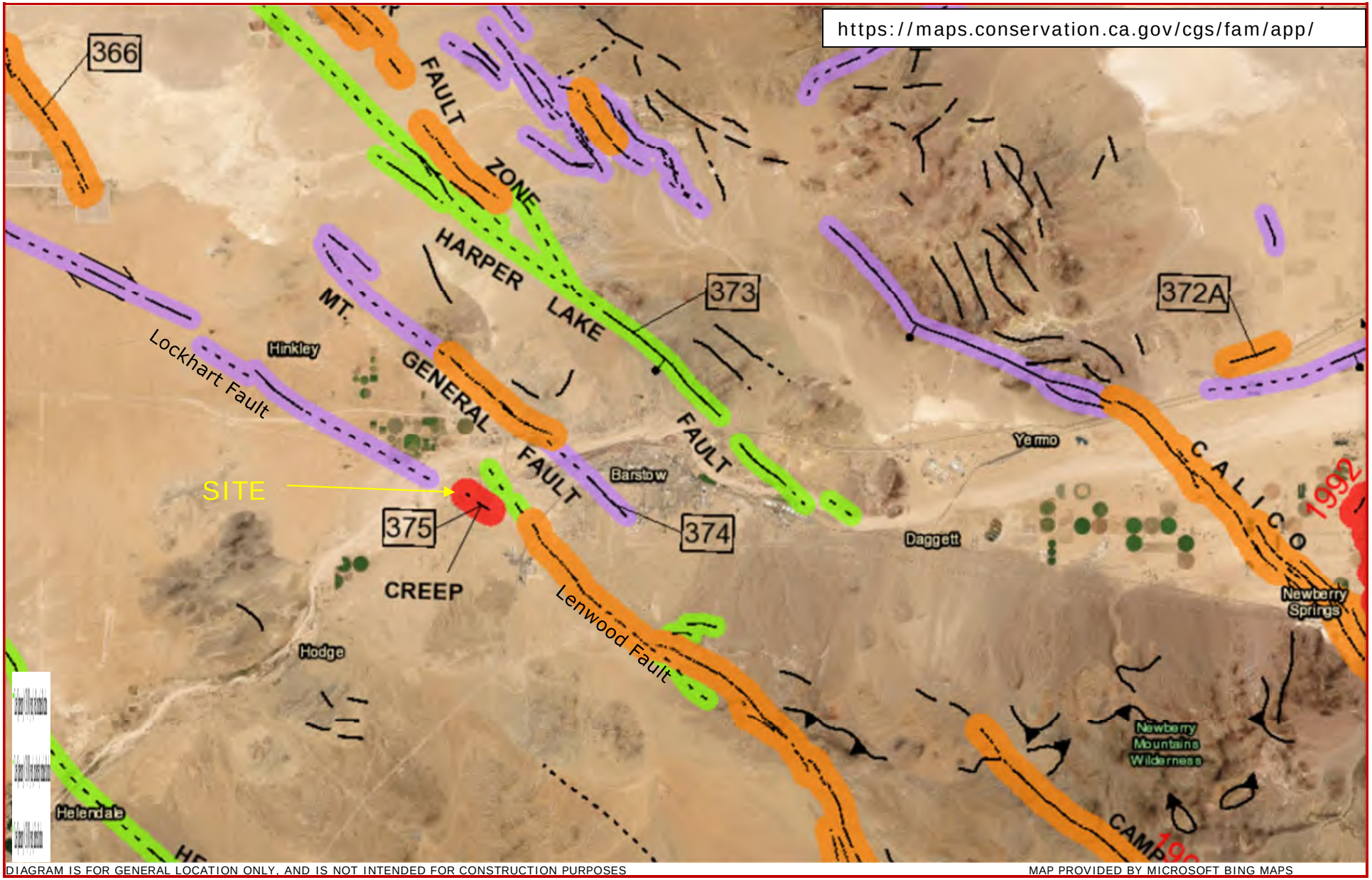
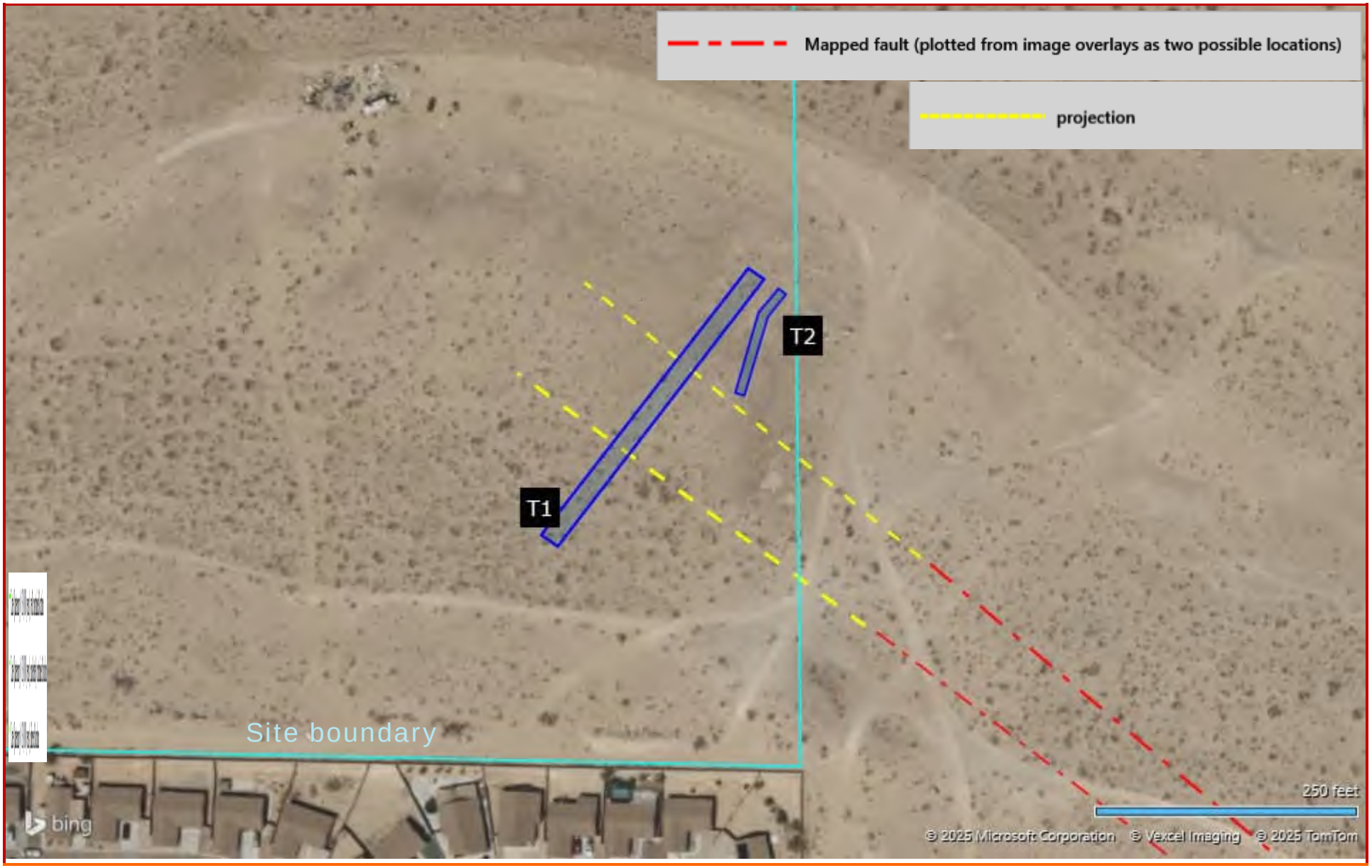


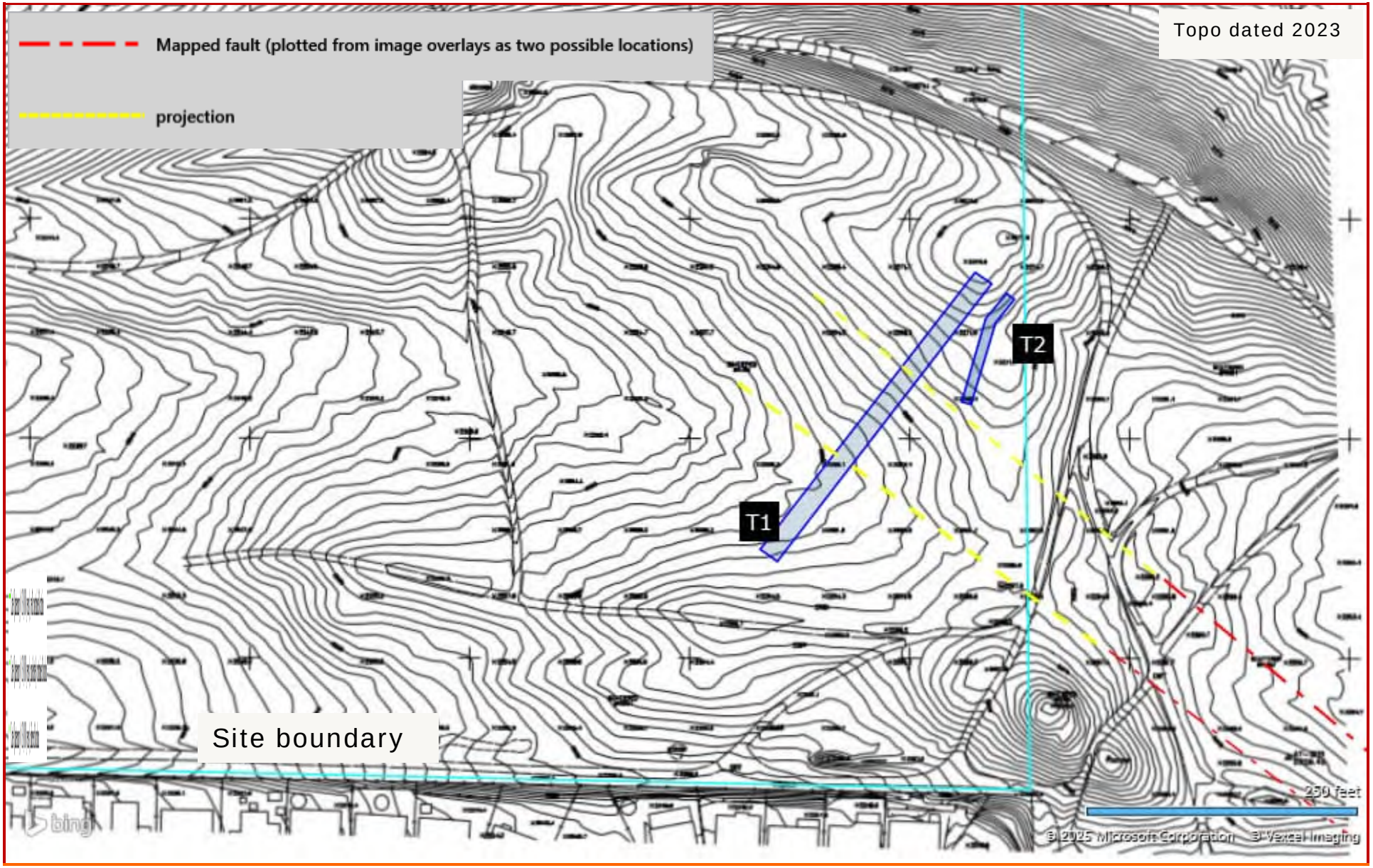
DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

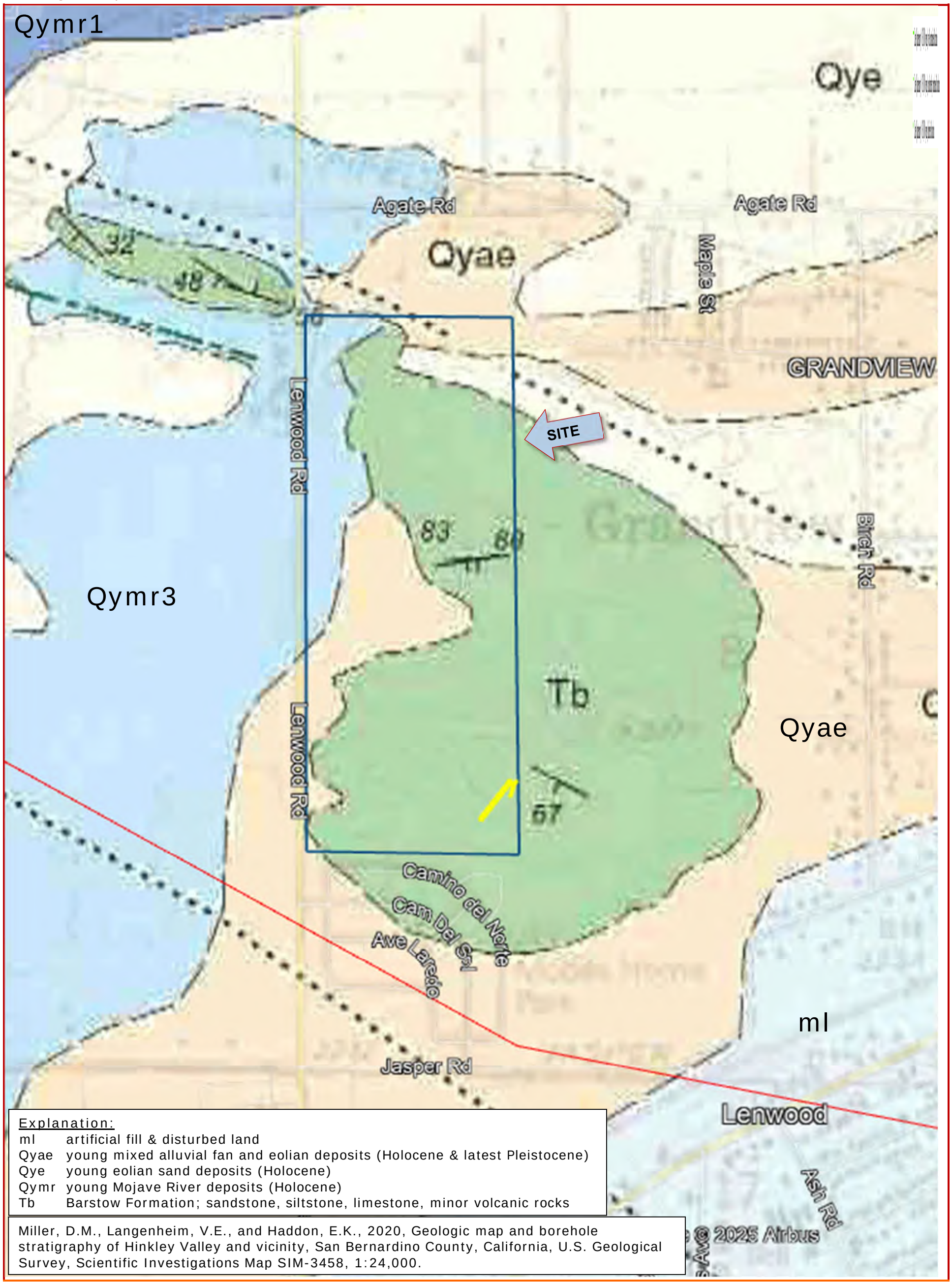
Trench Location Map



Trench Location Topographic Map



Geologic Map 1

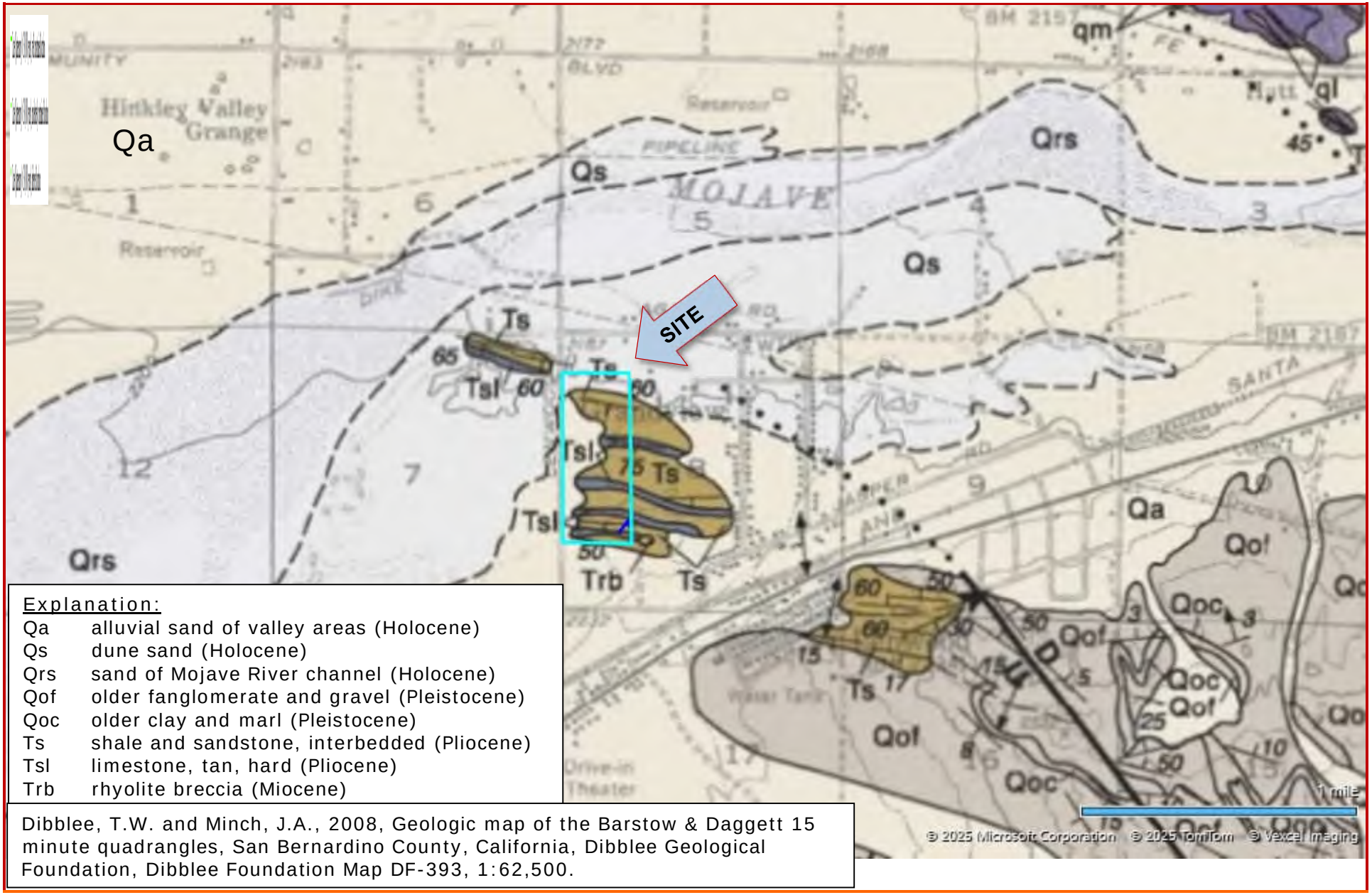


Explanation:

ml	artificial fill & disturbed land
Qyae	young mixed alluvial fan and eolian deposits (Holocene & latest Pleistocene)
Qye	young eolian sand deposits (Holocene)
Qymr	young Mojave River deposits (Holocene)
Tb	Barstow Formation; sandstone, siltstone, limestone, minor volcanic rocks

Miller, D.M., Langenheim, V.E., and Haddon, E.K., 2020, Geologic map and borehole stratigraphy of Hinkley Valley and vicinity, San Bernardino County, California, U.S. Geological Survey, Scientific Investigations Map SIM-3458, 1:24,000.

Geologic Map 2

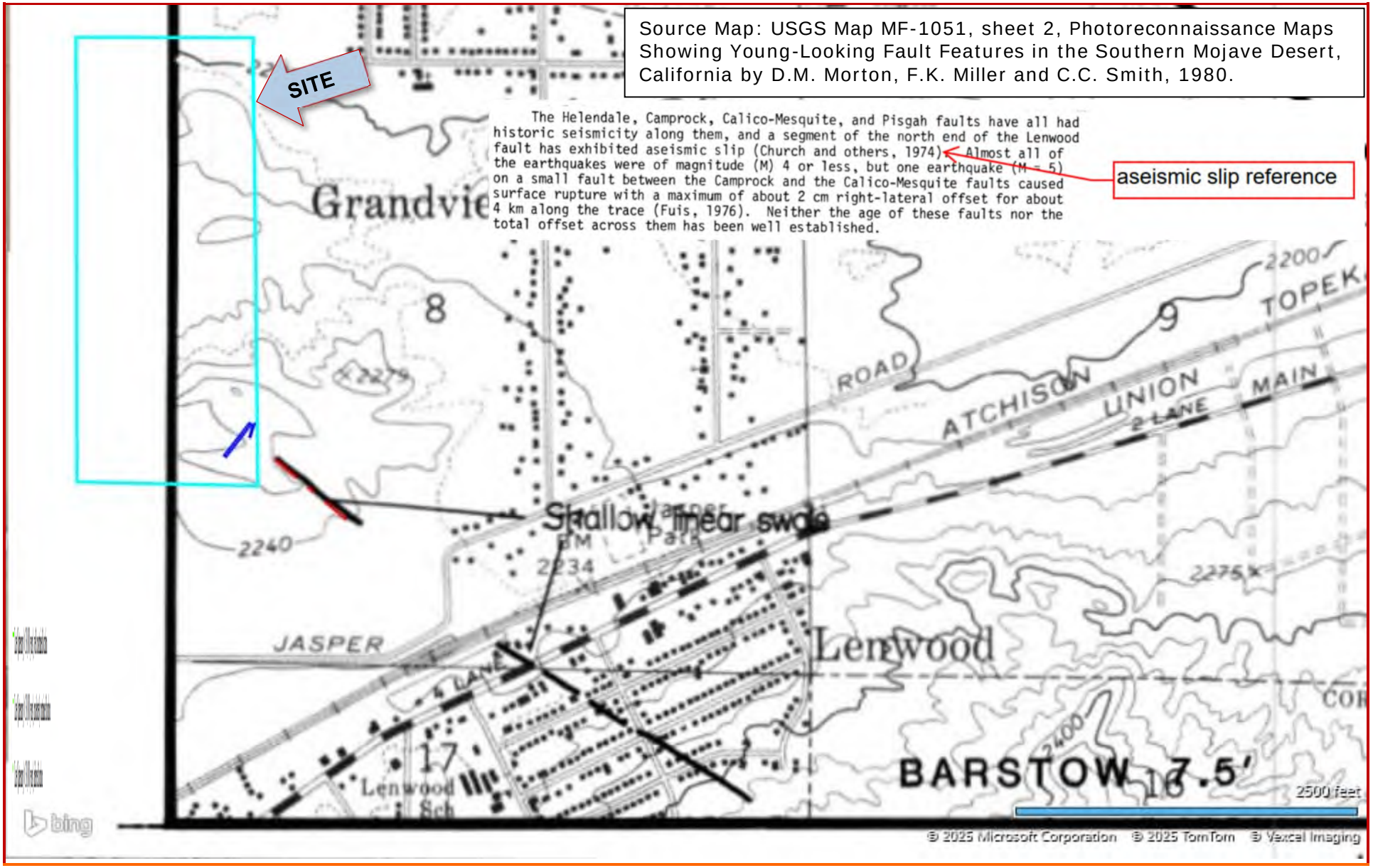


Explanation:

Qa	alluvial sand of valley areas (Holocene)
Qs	dune sand (Holocene)
Qrs	sand of Mojave River channel (Holocene)
Qof	older fanglomerate and gravel (Pleistocene)
Qoc	older clay and marl (Pleistocene)
Ts	shale and sandstone, interbedded (Pliocene)
Tsl	limestone, tan, hard (Pliocene)
Trb	rhyolite breccia (Miocene)

Dibblee, T.W. and Minch, J.A., 2008, Geologic map of the Barstow & Daggett 15 minute quadrangles, San Bernardino County, California, Dibblee Geological Foundation, Dibblee Foundation Map DF-393, 1:62,500.

USGS Fault Map 1980

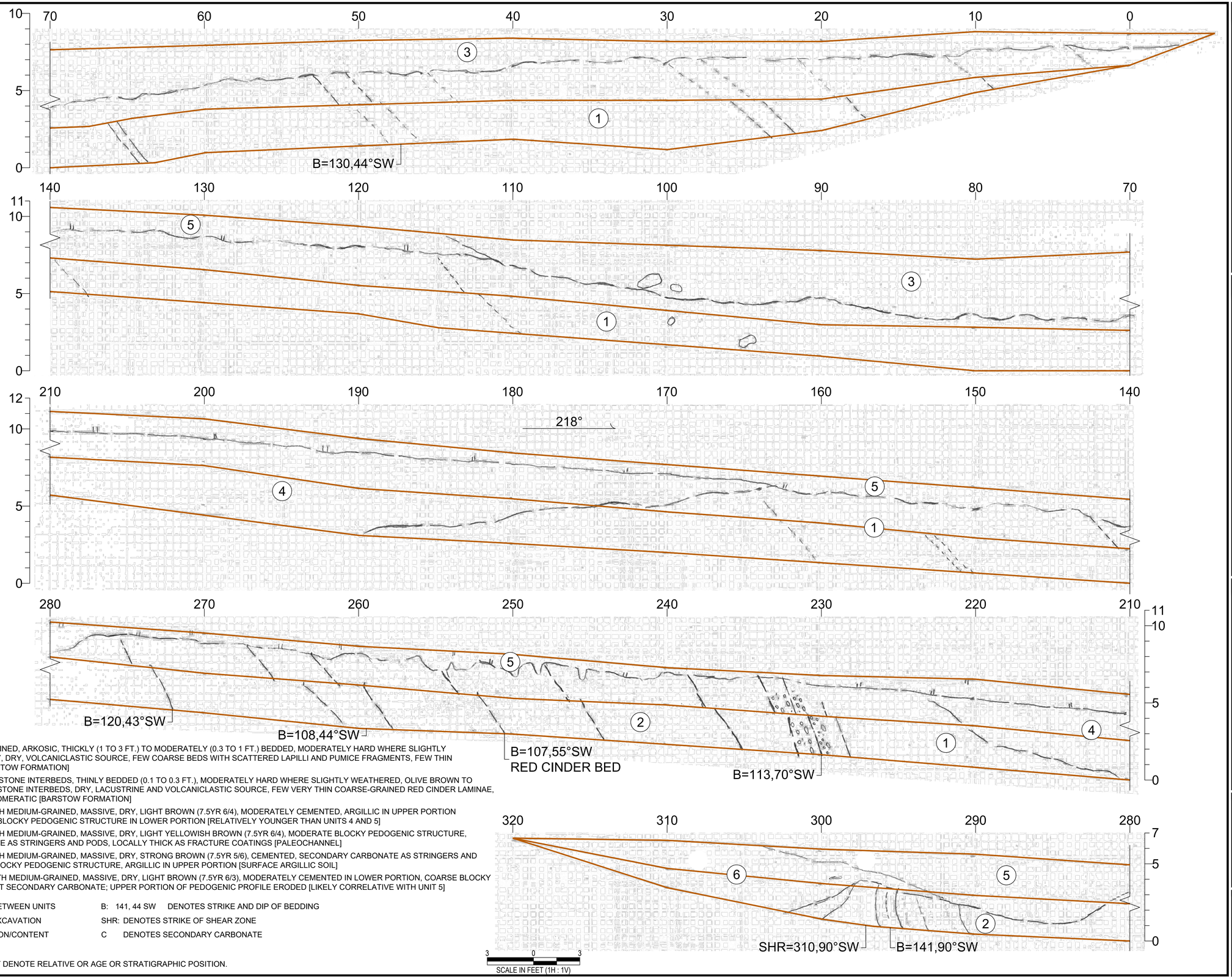


Exploration Results

Contents:

Trench Log – T-1 graphic
Trench Log – T-2 graphic
Trench Log – T-2 photographic (3)

Note: All attachments are one page unless noted above.



EXPLANATION OF UNITS

1 SANDSTONE, FINE- TO MEDIUM-GRAINED, ARKOSIC, THICKLY (1 TO 3 FT.) TO MODERATELY (0.3 TO 1 FT.) BEDDED, MODERATELY HARD WHERE SLIGHTLY WEATHERED, GRAY TO LIGHT GRAY, DRY, VOLCANICLASTIC SOURCE, FEW COARSE BEDS WITH SCATTERED LAPILLI AND PUMICE FRAGMENTS, FEW THIN SILT/CLAYSTONE INTERBEDS [BARSTOW FORMATION]

2 SILTSTONE/CLAYSTONE WITH SANDSTONE INTERBEDS, THINLY BEDDED (0.1 TO 0.3 FT.), MODERATELY HARD WHERE SLIGHTLY WEATHERED, OLIVE BROWN TO REDDISH BROWN WITH GRAY SANDSTONE INTERBEDS, DRY, LACUSTRINE AND VOLCANICLASTIC SOURCE, FEW VERY THIN COARSE-GRAINED RED CINDER LAMINAE, SANDSTONE IS COMMONLY CONGLOMERATIC [BARSTOW FORMATION]

3 SILTY SAND (SM) FINE-GRAINED WITH MEDIUM-GRAINED, MASSIVE, DRY, LIGHT BROWN (7.5YR 6/4), MODERATELY CEMENTED, ARGILLIC IN UPPER PORTION GRADING DOWNWARD TO COARSE BLOCKY PEDOGENIC STRUCTURE IN LOWER PORTION [RELATIVELY YOUNGER THAN UNITS 4 AND 5]

4 SILTY SAND (SM) FINE-GRAINED WITH MEDIUM-GRAINED, MASSIVE, DRY, LIGHT YELLOWISH BROWN (7.5YR 6/4), MODERATE BLOCKY PEDOGENIC STRUCTURE, ABUNDANT SECONDARY CARBONATE AS STRINGERS AND PODS, LOCALLY THICK AS FRACTURE COATINGS [PALEOCHANNEL]

5 SILTY SAND (SM) FINE-GRAINED WITH MEDIUM-GRAINED, MASSIVE, DRY, STRONG BROWN (7.5YR 5/6), CEMENTED, SECONDARY CARBONATE AS STRINGERS AND PODS, LOCALLY ABUNDANT, FINE BLOCKY PEDOGENIC STRUCTURE, ARGILLIC IN UPPER PORTION [SURFACE ARGILLIC SOIL]

6 SILTY SAND (SM) FINE-GRAINED, WITH MEDIUM-GRAINED, MASSIVE, DRY, LIGHT BROWN (7.5YR 6/3), MODERATELY CEMENTED IN LOWER PORTION, COARSE BLOCKY PEDOGENIC STRUCTURE, ABUNDANT SECONDARY CARBONATE; UPPER PORTION OF PEDOGENIC PROFILE ERODED [LIKELY CORRELATIVE WITH UNIT 5]

— — — — DENOTES CONTACT BETWEEN UNITS

——— DENOTES BENCH IN EXCAVATION

HACHURES DENOTE PEDOGENIC HORIZON/CONTENT

B: 141, 44 SW DENOTES STRIKE AND DIP OF BEDDING

SHR: DENOTES STRIKE OF SHEAR ZONE

C DENOTES SECONDARY CARBONATE

NOTE: UNIT NUMBERING DOES NOT DENOTE RELATIVE OR AGE OR STRATIGRAPHIC POSITION.

LAST SAVED: 8/1/2025

REV.	DATE	BY	DESCRIPTION

LOG OF TRENCH 1 - SOUTHEAST WALL

LENWOOD LOGISTICS FACILITY FAULT INVESTIGATION

LENWOOD ROAD

BARSTOW CALIFORNIA

Terracon
Explore with us
21905 64th Avenue W, Suite 100 Mountlake Terrace, WA 98043
PH: (425) 771-3304 FAX: (425) 771-3549

NOT FOR CONSTRUCTION

SH1.0	
DESIGNED BY:	JM
DRAWN BY:	AP
APPVD. BY:	JM
SCALE:	AS SHOWN
DATE:	AUG. 2025
JOB NO.	CB255099
SHEET NO.:	1 OF 2

EXPLANATION OF UNITS

1 SANDSTONE, FINE- TO MEDIUM-GRAINED, ARKOSIC, THICKLY (1 TO 3 FT.) TO MODERATELY (0.3 TO 1 FT.) BEDDED, MODERATELY HARD WHERE SLIGHTLY WEATHERED, GRAY TO LIGHT GRAY, DRY, VOLCANICLASTIC SOURCE, FEW COARSE BEDS WITH SCATTERED LAPILLI AND PUMICE FRAGMENTS, FEW THIN SILT/CLAYSTONE INTERBEDS [BARSTOW FORMATION]

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3 SILTY SAND (SM) FINE-GRAINED WITH MEDIUM-GRAINED, MASSIVE, DRY, LIGHT BROWN (7.5YR 6/4), MODERATELY CEMENTED, ARGILLIC IN UPPER PORTION GRADING DOWNWARD TO COARSE BLOCKY PEDOGENIC STRUCTURE IN LOWER PORTION [RELATIVELY YOUNGER THAN UNITS 4 AND 5]

4 SILTY SAND (SM) FINE-GRAINED WITH MEDIUM-GRAINED, MASSIVE, DRY, LIGHT YELLOWISH BROWN (7.5YR 6/4), MODERATE BLOCKY PEDOGENIC STRUCTURE, ABUNDANT SECONDARY CARBONATE AS STRINGERS AND PODS, LOCALLY THICK AS FRACTURE COATINGS [PALEOCHANNEL]

5 SILTY SAND (SM) FINE-GRAINED WITH MEDIUM-GRAINED, MASSIVE, DRY, STRONG BROWN (7.5YR 5/6), CEMENTED, SECONDARY CARBONATE AS STRINGERS AND PODS, LOCALLY ABUNDANT, FINE BLOCKY PEDOGENIC STRUCTURE, ARGILLIC IN UPPER PORTION [SURFACE ARGILLIC SOIL]

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— — — — DENOTES CONTACT BETWEEN UNITS

——— DENOTES BENCH IN EXCAVATION

HACHURES DENOTE PEDOGENIC HORIZON/CONTENT

B: 141, 44 SW DENOTES STRIKE AND DIP OF BEDDING

SHR: DENOTES STRIKE OF SHEAR ZONE

C DENOTES SECONDARY CARBONATE

NOTE: UNIT NUMBERING DOES NOT DENOTE RELATIVE OR AGE OR STRATIGRAPHIC POSITION.

3 0 3
SCALE IN FEET (1H : 1V)

LAST SAVED: 8/1/2025

REV.	DATE	BY	DESCRIPTION

LOG OF TRENCH 2 - SOUTHEAST WALL

LENWOOD LOGISTICS FACILITY FAULT INVESTIGATION

LENWOOD ROAD

BARSTOW CALIFORNIA

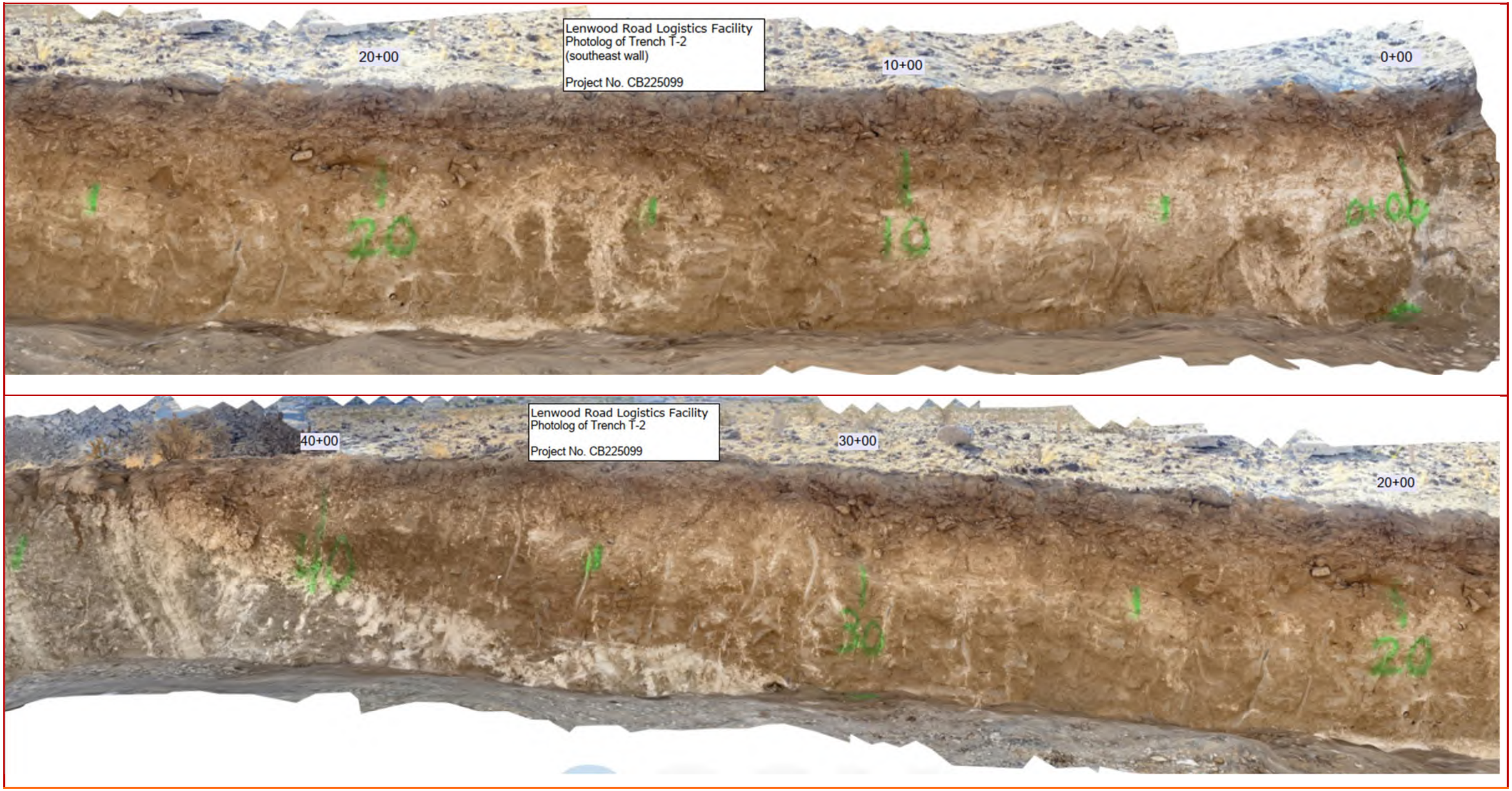
Terracon
Explore with us
21905 64th Avenue W. Suite 100 Mountlake Terrace, WA 98043
PH. (425) 771-3304 FAX. (425) 771-3549

NOT FOR CONSTRUCTION

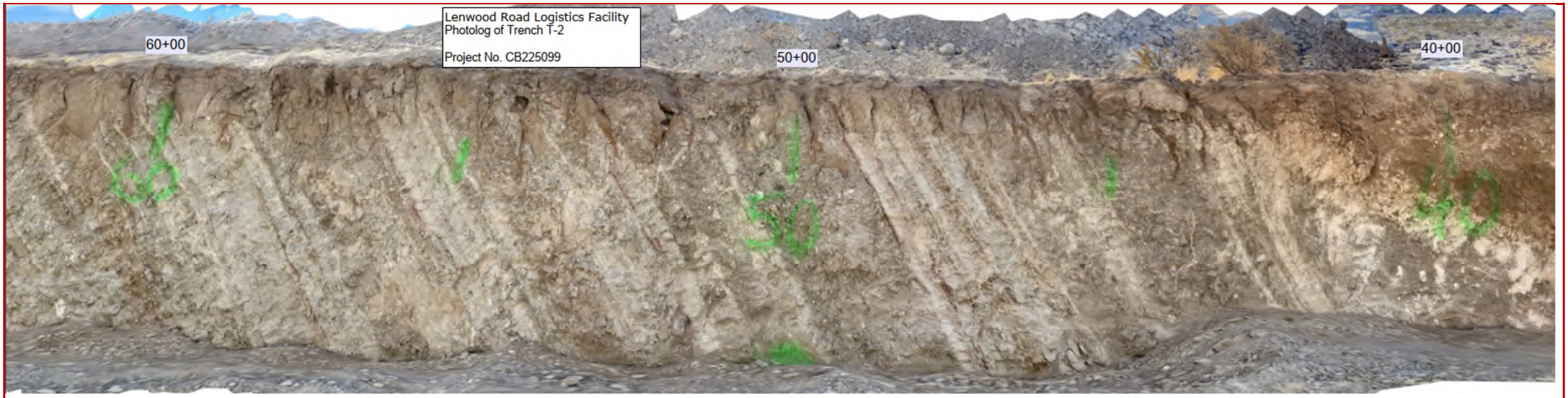
SH2.0

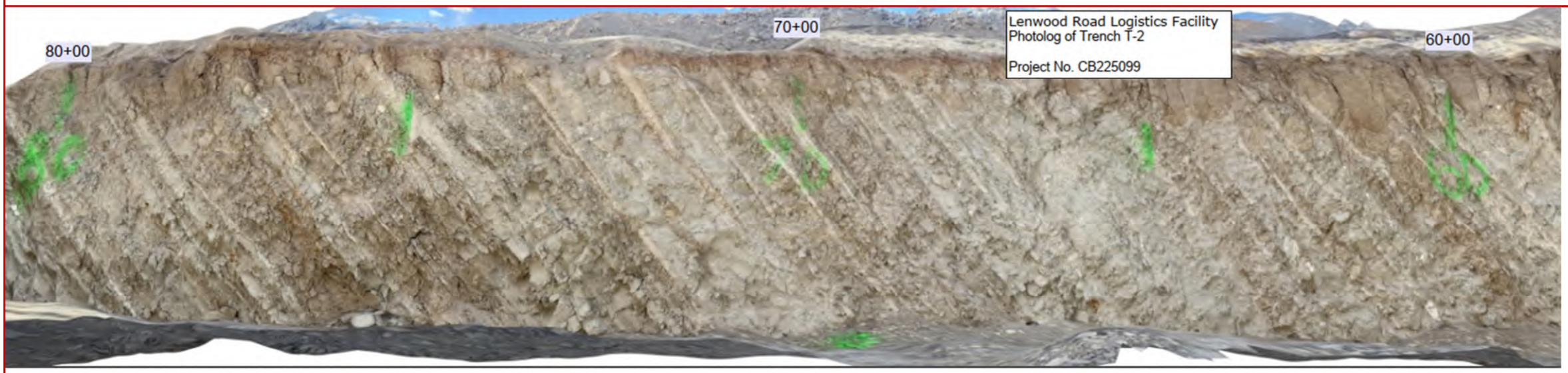
DESIGNED BY:	JM
DRAWN BY:	AP
APPVD. BY:	JM
SCALE:	AS SHOWN
DATE:	AUG. 2025
JOB NO.	CB255099
SHEET NO.:	2 OF 2

Trench T-2 Photographic Log

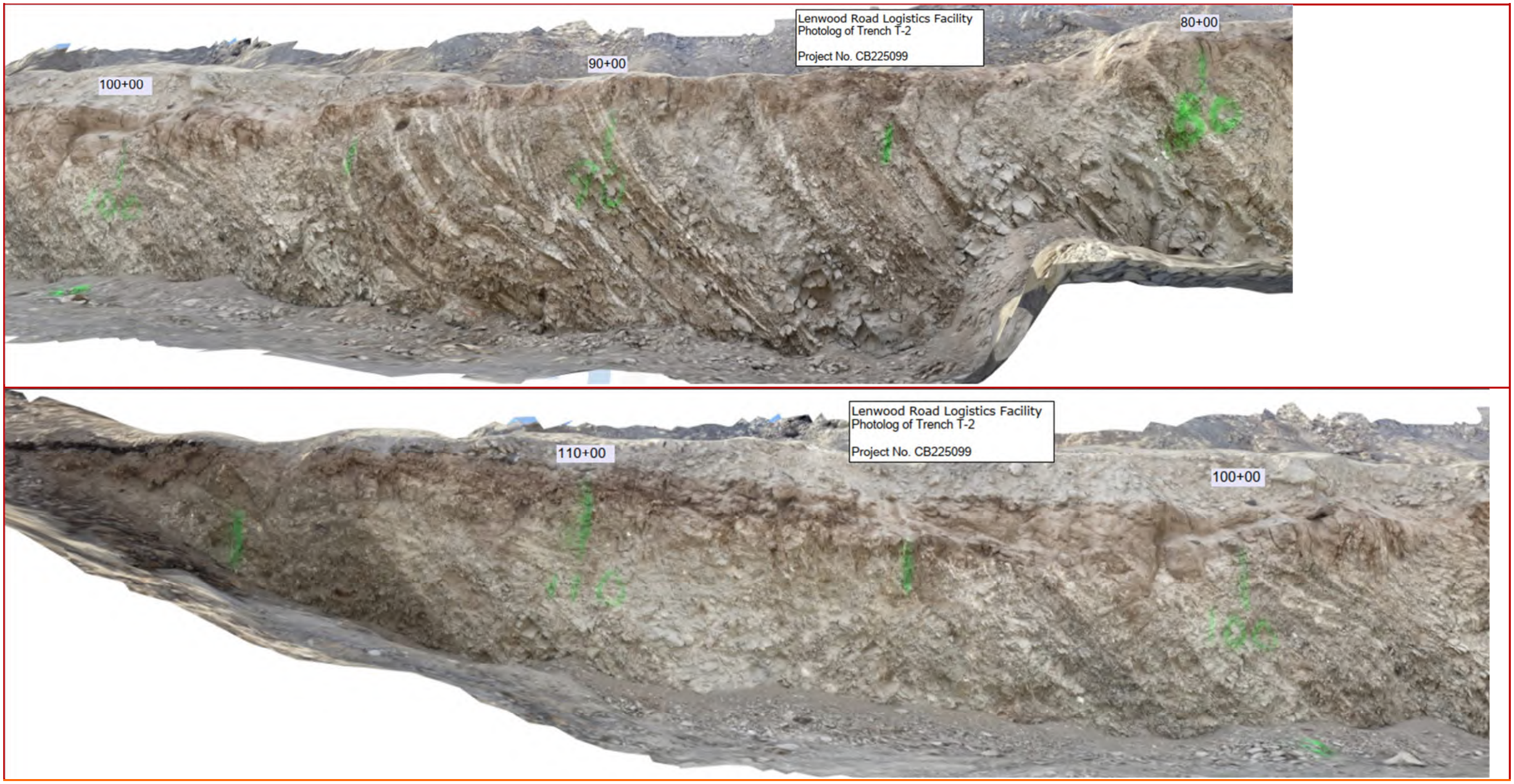


Trench T-2 Photographic Log





Trench T-2 Photographic Log



Appendix F

Paleontological Resources Inventory Memorandum

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

MEMORANDUM

To:	Phil Angelides, EVC Partners LLC
From:	Michael Williams, Ph.D.
Subject:	Paleontological Resources Inventory Memorandum for the Electric Vehicle Charging Station and Logistics Facility
Date:	September 20, 2024
cc:	Christine Kronenberg, Sarah Siren, Jason Collins - Dudek
Attachment(s):	Figure 1, Project Location Map Figure 2, Geological Map Appendix A, Survey Photos Appendix B, Confidential LACM Paleontological Records Search Results

Dudek conducted a paleontological resources inventory memorandum for the Electric Vehicle Charging Station and Logistics Facility (Project), located in San Bernardino County, California (Figure 1 – Project Location). This memorandum provides the paleontological resources inventory for the 100-acre project site immediately east of Lenwood Boulevard, south of the Mojave River, west of Interstate (I)-15, north of High Desert Estates, a single-family housing development, in Lenwood, California. The Project site is located in Section 8, of Township 9N; Range 2W of the Barstow, California U.S. Geological Service (USGS) 7.5-minute series topographic quadrangle map.

To determine the paleontological sensitivity of the Project site, Dudek performed a paleontological resources inventory for the Project to comply with the California Environmental Quality Act (CEQA) and Society of Vertebrate Paleontology (SVP) guidelines for successful paleontological mitigation (SVP 2010). The inventory consisted of a Natural History Museum of Los Angeles County (LACM) paleontological records search, review of the preliminary geotechnical report prepared for the Project by Moore Twining Associates, Inc. (2022), a paleontological survey of the Project site, and review of geological mapping and geological and paleontological literature. The results of the paleontological records search and paleontological survey were negative for paleontological resources within the Project site; however, the LACM reported over two hundred fossil localities in the region from the same mapped geological units that underlie the Project site.

As portions of the Project site have never been developed, there is a potential to encounter intact subsurface paleontological resources in those areas. As such, a paleontological monitoring program, which includes the preparation and implementation of a Paleontological Resources Impact Mitigation Plan (PRIMP), is necessary to reduce impacts to any potential paleontological resources onsite in those areas underlain by sediments with a high potential to yield significant paleontological resources. This memorandum was prepared by Michael Williams, Ph.D. and Sarah Siren, M.Sc., qualified Principal Investigators for Paleontology, with assistance from Jason Collins, B.A., in accordance with federal and state CEQA guidelines and SVP (2010) standards.

1 Project Location and Description

The approximately 100-acre Project site includes four parcels (APNs 0497-142-03, 0497-142-04, 0497-142-14, and 0497-142-15) and is located on Lenwood Road between California Highway 58 (SR 58) and Interstate 15 (I-15), approximately four miles west of downtown Barstow. Highway 40 is located approximately 2.5 miles to the southeast. The Project site is undeveloped and surrounded by undeveloped lands with the exception of a single-family residential neighborhood, High Desert Estates, located adjacent to the southern Project boundary. The Project site is designated Rural Living (R-L) in the Countywide Plan and zoned R-L. The Project is proposing development on 20-acres in the southern portion of the site with an electric vehicle charging hub for medium and heavy-duty trucks and light duty/passenger vehicles, battery storage, and a 15,000 square foot (sf) commercial building to provide food and other amenities (e.g., showers and rest areas) as trucks and cars are charging. Access would be provided from Lenwood Road. The remaining approximately 80-acres is proposed for up to 1,341,432 sf of light industrial warehouse, logistic, and distribution facilities.

The Project would include connections to existing utilities including water, storm drain, and sewer lines in addition to surface parking, landscaping and biofiltration basins.

2 Paleontological Resources

Paleontological resources are the remains or traces of plants and animals that are preserved in the earth's crust, and per the Society of Vertebrate Paleontology (SVP 2010) guidelines, are older than written history or older than approximately 5,000 years, which approximates the middle Holocene (4,200 to 8,200 years ago; Cohen et al. 2023). They are limited, nonrenewable resources of scientific and educational value and are afforded protection under state laws and regulations. This report satisfies requirements in accordance with state guidelines (13 PRC, 21000 et seq.) and Public Resources Code Section 5097.5 (Stats 1965, c 1136, p. 2792). This analysis also complies with guidelines and significance criteria specified by SVP (2010). Table 1 provides definitions for high, undetermined, low, and no paleontological resource potential, or sensitivity, as set forth in and by the SVP (2010) Guidelines for Determining Significance: Paleontological Resources.

Table 1. Paleontological Resource Sensitivity Criteria

Resource Sensitivity / Potential	Definition
High	Rock units from which vertebrate or significant invertebrate, plant, or trace fossils have been recovered are considered to have a high potential for containing additional significant paleontological resources. Rock units classified as having high potential for producing paleontological resources include, but are not limited to, sedimentary formations and some volcaniclastic formations (e.g., ashes or tephras), and some low-grade metamorphic rocks that contain significant paleontological resources anywhere within their geographical extent, and sedimentary rock units temporally or lithologically suitable for the preservation of fossils (e.g., middle Holocene and older, fine-grained fluvial sandstones, argillaceous and carbonate-rich paleosols, cross-bedded point bar sandstones, fine-grained marine sandstones). Paleontological potential consists of both (1) the potential for yielding abundant or significant vertebrate fossils or for yielding a few significant fossils, large or small, vertebrate, invertebrate, plant, or trace fossils and (2) the importance of recovered evidence for new and significant taxonomic, phylogenetic, paleoecologic, taphonomic, biochronologic, or stratigraphic data. Rock units that contain potentially datable organic remains older than late Holocene, including deposits associated with animal nests or middens, and rock units that may contain new vertebrate deposits, traces, or trackways are also classified as having high potential.
Low Potential	Reports in the paleontological literature or field surveys by a qualified professional paleontologist may allow determination that some rock units have low potential for yielding significant fossils. Such rock units will be poorly represented by fossil specimens in institutional collections or, based on general scientific consensus, only preserve fossils in rare circumstances and the presence of fossils is the exception not the rule; e.g., basalt flows or Recent colluvium. Rock units with low potential typically will not require impact mitigation measures to protect fossils.
Undetermined Potential	Rock units for which little information is available concerning their paleontological content, geologic age, and depositional environment are considered to have undetermined potential. Further study is necessary to determine whether these rock units have high or low potential to contain significant paleontological resources. A field survey by a qualified professional paleontologist to specifically determine the paleontological resource potential of these rock units is required before a paleontological resource impact mitigation program can be developed. In cases where no subsurface data are available, paleontological potential can sometimes be determined by strategically located excavations into subsurface stratigraphy.
No Potential	Some rock units have no potential to contain significant paleontological resources; for instance, high-grade metamorphic rocks (such as gneisses and schists) and plutonic igneous rocks (such as granites and diorites). Rock units with no paleontological resource potential require neither protection nor impact mitigation measures relative to paleontological resources.

Source: SVP 2010.

3.1 California Environmental Quality Act

Paleontological resources are afforded protection under CEQA, which require lead agencies to disclose the potential environmental impacts of their discretionary actions. One of the screening questions in Appendix G of the CEQA Guidelines asks: "Would the project directly or indirectly destroy a unique paleontological resource or site or a unique geologic feature?"

3.2 California Public Resources Code (PRC) Section 5097.5

California's Public Resources Code (PRC) Section 5097.5 states that:

> No person shall knowingly and willfully excavate upon, or remove, destroy, injure, or deface, any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, rock art, or any other archaeological, paleontological or historical feature, situated on [lands owned by, or under the jurisdiction of, the state, or any city, county, district, authority, or public corporation, or any agency thereof], except with the express permission of the public agency having the jurisdiction over the lands. Violation of this section is a misdemeanor.

3.3 County of San Bernardino

San Bernardino County completed a Final Program Environmental Impact Report (PEIR) in August 2020, for the Countywide Plan (State Clearinghouse No. 2017101033). The PEIR evaluates paleontological resources in Chapter 5.5 and included the following regulatory requirements (RR), goals, and policies:

- RR CUL-1. Cultural and paleontological resources are recognized as nonrenewable resources and receive Protection under the PRC and CEQA.
- RR CUL-3. The removal, without permission, of any paleontological site or feature is prohibited from lands under the jurisdiction of the state or any city, county, district, authority, or public corporation, or any agency thereof (PRC 5097.5). This applies to agencies' own activities, including construction and maintenance, and permit actions by others.
- RR CUL-4. Adverse impacts to paleontological resources from developments on public (state, county, city, and district) lands require reasonable mitigation. (PRC 5097.5)
- Goal CR-2 Historic and Paleontological Resources. Historic resources (buildings, structures, or archaeological resources), and paleontological resources that are protected and preserved for their cultural importance to local communities as well as their research and educational potential.
    - Policy CR-2.3 Paleontological and archaeological resources. We strive to protect paleontological and archaeological resources from loss or destruction by requiring that new development include appropriate mitigation to preserve the quality and integrity of these resources. We require new development to avoid paleontological and archeological

resources whenever possible. If avoidance is not possible, we require the salvage and preservation of paleontological and archeological resources.

- Policy CR-2.5 Public awareness and education. We increase public awareness and conduct education efforts about the unique historic, natural, tribal, and cultural resources in San Bernardino County through the County Museum and in collaboration with other entities and organizations.

In addition, a Mitigation Monitoring and Reporting Program (MMRP) was developed in conjunction with the PEIR to "provide a vehicle" by which monitor mitigation measures and conditions of approval outlined in the PEIR. Protection of paleontological resources are detailed in Mitigation Measures 5.5 and 5.6 of the MMRP.

4 Methods

4.1 Geological Map and Literature Review

Published geological maps (Dibblee and Minch 2008) and published and unpublished reports were reviewed to identify geological units on the Project site and determine their paleontological sensitivity.

4.2 Paleontological Records Search

A records search request was sent to the LACM on May 16, 2023. The purpose of the museum records search is to determine whether there are any known fossil localities in or near the Project site, assist in identifying the sensitivity of geological units present within the Project site, and aide in determining whether a paleontological mitigation program is warranted to avoid or minimize potential adverse effects of construction on paleontological resources.

4.3 Paleontological Survey

Dudek archaeologists Loukas Barton, David Faith, Patrick Hadel, and cross trained archaeological and paleontological surveyor, Jessica Colston, conducted pedestrian surveys of the Project site on April 14, 2023, and July 6, 2023. The survey was conducted to determine if any surficial paleontological resources are present within the Project site and confirm geological mapping. The survey utilized standard paleontological survey procedures and consisted of systematic surface inspection of exposed geological units with high paleontological sensitivity. The ground surface was examined for the presence of exposed surficial fossils. Ground disturbances such as cut banks, burrows, and eroded hillsides were also visually inspected for exposed fossils and sediments.

5 Results

5.1 Geological Map Review and Literature Review

The Project site is located within the Mojave Desert Geomorphic Province (Morton and Miller 2006; CGS 2002). This geomorphic province is characterized as a broad interior region of isolated mountain ranges separated by expanses of desert playas. There are two important fault trends that control topography within this geomorphic province: a prominent northwest to southeast trend and a secondary east-west trend (apparent alignment with Transverse Ranges is significant). The Mojave Desert Geomorphic Province is a wedge-shaped, sharp angled chunk of arid land bounded by the Garlock Fault to the north (southern boundary Sierra Nevada) and the San Andreas Fault to the west, where it bends east from its northwest trend. The northern boundary of the province is separated from the prominent Basin and Range Geomorphic Province by the eastern extension of the Garlock Fault (Dibblee 1967). More specifically, the Project site is located within the western Mojave Desert region also known as the Mojave Block. The Mojave Block is a tectonic block bounded on the southwest by the San Andreas Fault and on the northwest by the Garlock fault zone, along which the bordering mountains were elevated. Both zones are vertical crustal breaks.

According to published geological mapping by Dibblee and Minch (2008) at a 1:62,500 scale, the Project site is mapped as Holocene (present to 11,700 years ago; Cohen et al. [2023]) alluvium (Map Unit Qa), Tertiary sandstone and shale deposits (Map Unit Ts) deposits, and Tertiary sedimentary limestone (Map Unit Tsl) (Figure 2 – Geologic Map). The Quaternary alluvium consists of valley deposited, coarse- to fine-grained, light gray sands that are coarser grained near hills (Dibblee and Minch 2008). The Tertiary sedimentary rocks (Barstow Formation) consist of moderately consolidated sedimentary rocks of fluvial and lacustrine origin that includes the middle Miocene (approximately 7 million years ago [mya] to 16 mya; Cohen et al. [2023]) Barstow Formation (Dibblee and Minch 2008).

The middle Miocene Barstow Formation is an abundantly fossiliferous formation named by Wood et al. (1941) and is the formation for which the Barstovian North American Land Mammal Age (NALMA) is named. The Barstovian NALMA is based on the first occurrence of the fossil bear, *Plithocyon*, and the proboscidean (the taxonomic order that includes elephants), *Zygolophodon* and ranges from approximately 12.5 mya to 15.9 mya (Tedford et al. 2004). Examples of fossils from the Barstow Formation include plants (Reynolds 2013); trace fossils (Howe and Eby 2006); exceptional, three-dimensionally preserved insects (aquatic insect larvae and fairy shrimp) (Park and Downing 2001); tortoises (Brattstrom 1961); boid snakes (Brattstrom 1958); birds (Miller 1952); and large and small mammals (Pagnac and Reynolds 2006; Lindsey 1972). The Barstow Formation has high paleontological sensitivity or potential.

The Quaternary alluvium mapped within the Project site boundaries has low paleontological sensitivity on the surface that increases with depth. Due to deflation of sediments over time and the shifting sands common in the Mojave Desert, recent alluvial and eolian deposits are sometimes underlain by Pleistocene paleosols (fossil soil horizons) at shallow depths bgs (Stewart et al. 2012; Stewart and Hakel 2016). In his compilation of Quaternary (Pleistocene and Holocene) vertebrates from California, Jefferson (1991) lists numerous Pleistocene vertebrate localities from the Mojave Desert in San Bernardino County. Some of the taxa from these fossil localities include fossil fish (*Gila bicolor*), amphibians, reptiles, birds, and small and large mammals (*Equus, Camelops, Canis, Lepus*

sp., Mammuthus sp.). The Quaternary alluvium has low paleontological sensitivity or potential on the surface, increasing to high at potentially shallow depths.

5.2 Paleontological Records Search

The records search results letter from the LACM was received on May 28, 2023. No records of fossil localities were found within the boundaries of the Project site; however, more than 200 fossil localities are located in the region within the same sedimentary deposits as the Project site (Confidential Appendix A). Summarized below in Table 2.

Table 2. LACM Fossil Localities Near the Project Site

Locality Number	Location	Formation	Taxa	Depth
LACM IP 4736	Harper Dry Lake	Unknown formation (Pleistocene)	*Peaclam (Pisidium compressum)*	Unknown
LACM VP 1224, 3352, 3353, 3498, 3512, CIT 209	Victorville, California	Shoemaker Gravel Formation	Mammoth (*Mammuthus*), Horse (*Equus*), Camel family (Camelidae), deer (Cervidae); antelope (Antilocapridae)	Unknown
LACM IP 6125	East end of Rabbit Lake; San Bernardino County	Unknown formation (Pleistocene)	Invertebrates (unspecified)	Unknown
LACM VP 1123	Schuiling Cave, San Bernardino County	Unknown formation (Pleistocene)	Horse (*Equus*), antelope (*Breameryx*), fox (*Urocyon*), camel (*Camelops*), lama (*Tanupolama*), badger (*Taxidae*), wolf (*Canis*), human (*Homo sapiens*), sheep (*Ovis*), hare (*Lepus*), rabbit (*Sylvilagus*), kangaroo rat (*Dipodomys*), pocket mouse (*Perognathus*), pack rat (*Neotoma*); gopher tortoise (*Gopherus*), chuckwalla (*Sauromalus*), rattlesnake (*Crotalus*); vulture (*Gymnogyps*), horned owl (*Bubo*), Scops owl (*Otus*), duck (*Anas, Oxyura, Aythya*), coot (*Fulca*), merganser (*Mergus*), woodpecker (*Colaptes*),	Surface and shallow subsurface

Locality Number	Location	Formation	Taxa	Depth
			hawk (*Buteo*), cat (*Felis, Lynx*), crow (*Corvus*), dove (*Zenaida),* eagle *(Aquila*).	
Over 30 sites	Manix Lake, Manix, California	Manix Lake Beds	Abundant vertebrate fossils, including camel family (*Camelops, Hemiauchenia*), goat (*Capra*), bear (*Ursus*), horse family (*Equus, Neohipparion*), mammoth (*Mammuthus*), ground sloth (*Nothrotheriops*), fish (*Gila*), flamingo (*Phoenicopterus*), grebe (*Aechmophorus*), pelican (*Pelecanus*), goose (*Branta*), stork (*Ciconia*), crane (*Grus*), cormorant (*Phalacrocorax*), eagle (*Aquila*), diving duck (*Aythya).*	Surface and shallow subsurface
29 Vertebrate Localities and 8 invertebrate localities	Mud Hills, north of Barstow	Barstow Formation	(*Brachycrus*), horse (*Merychippus*), sheep (*Pecora*), canine (*Borophagus, Tomarctus,* Canidae), bird (Aves), antelope family (*Merycodus*), carnivore (Carnivora), bear dog (Amphycyoninae), turtle family (Testudinata), camel (Camelidae), cat (Felidae, *Peudoaelurus*), rabbit (Leporidae), artiodactyl (Artiodactyla, Palaeomerycinae, Dromomerycinae), peccary (*Dyseohyus, Cynorca*), elephant clade (Proboscidea), weasel family (Mustelidae), and other unidentified mammals; Invertebrates (primarily gastropods and bivalves)	Surface and shallow subsurface

Locality Number	Location	Formation	Taxa	Depth
LACM VP 3181	North of Hinkley	Barstow Formation	Rodent (Rodentia), antelope (Merycodontinae, *Merycodus*), weasel (*Leptarctus*), horse (*Merychippus*), rhinoceros family (Rhinocerotoidea), artiodactyl (Artiodactyla, Dromomerycinae), carnivore (Carnivora), perissodactyl (Perissodactyla), camel (Camelidae), canine (Candidae), cat (Felidae), rabbit (Leporidae); bird (Aves); invertebrates (Mollusca).	Surface

5.3 Paleontological Survey

The approximately 100-acre Project site is mostly flat and is comprised of desert pavement surfaces and sand dune formations. Ground surface visibility was moderate, between 40% - 60% (Photo 1), within the desert pavement surfaces and in areas of denser vegetation, and excellent, between 70% - 100%, within areas of regular vehicle overland travel and among the sand dunes (Photo 2). Vegetation within the Project site consisted of creosote bush and various species of invasive grasses. Within the sand dunes, sediments were loosely compacted. Intact desert pavement surfaces were present throughout the Project site and consisted of highly compacted, light brown silty sand, and sub-angular rhyolite and cryptocrystalline silicate nodules. Barstow Formation sedimentary rock outcroppings were observed and documented in the east and southeast portions of the Project site (Photo 3 and 4). No paleontological resources were observed during the survey.

6 Summary and Management Recommendations

No paleontological resources were identified within the Project site as a result of the institutional records search, paleontological survey, and desktop geological and paleontological review. However, the paleontological records search conducted by the LACM detailed 40 Pleistocene fossil localities and 38 middle Miocene fossil localities nearby from the same geological units present within the Project site, as well as over 200 localities in the region from the middle Miocene Barstow Formation. In addition, Pleistocene deposits and the Barstow Formation from this portion of the Mojave Desert have a record of producing significant paleontological resources. The Holocene alluvium within the Project site has low paleontological resources sensitivity on the surface, increasing to high at potentially shallow depths. The Tertiary sedimentary and Tertiary sedimentary limestone deposits (Barstow Formation) have a high paleontological resources sensitivity (See Figure 2 – Geologic Map). Based on the records search results, paleontological survey, map and literature review, and planned excavations for the Project, the Project site has a high potential to produce paleontological resources during planned construction activities. In the

event intact paleontological resources are located on the Project site, ground-disturbing activities associated with construction of the Project, such as grading during site preparation and trenching for utilities, have the potential to destroy a unique paleontological resource or site. The following is recommended to ensure if any paleontological resources are discovered a protocol is in place to minimize damage to the resource.

Prior to commencement of any grading activity on-site, the applicant shall retain a qualified paleontologist, subject to the review and approval of the County. The paleontologist shall prepare a Paleontological Resources Impact Mitigation Program (PRIMP) for the Project consistent with the Society of Vertebrate Paleontology (2010) guidelines. The PRIMP shall outline requirements for preconstruction meeting attendance and worker environmental awareness training, adequate onsite monitoring, procedures for adequate paleontological monitoring, discoveries treatment, paleontological methods (including sediment sampling for microvertebrate fossils), reporting, and collections management. The PRIMP shall also include protocols for spot-checking significant ground-disturbing activities below a depth of five feet below the ground surface or five feet below the depth of artificial fill in areas mapped as Holocene alluvium and full-time paleontological monitoring below the depth of artificial fill in areas underlain by Tertiary sandstone and shale deposits and Tertiary limestone deposits (Barstow Formation). In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor shall temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery shall be roped off with a 50-foot radius buffer. While the paleontological monitor recovers the find, work may continue in areas outside of the buffer as long as another paleontological monitor is available and present for the work. Once documentation and collection of the find is completed, the monitor shall remove the rope and allow grading to recommence in the area of the find. Costs for laboratory work and curation fees for any significant fossils recovered during the monitoring program are the responsibility of the project proponent or applicant. Recovered resources should be curated at a repository within San Bernardino or Riverside County.

Should you have any questions relating to this report and its findings please contact Michael Williams (mwilliams@dudek.com) or Sarah Siren (ssiren@dudek.com).

Respectfully Submitted,

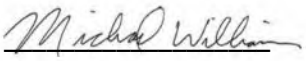


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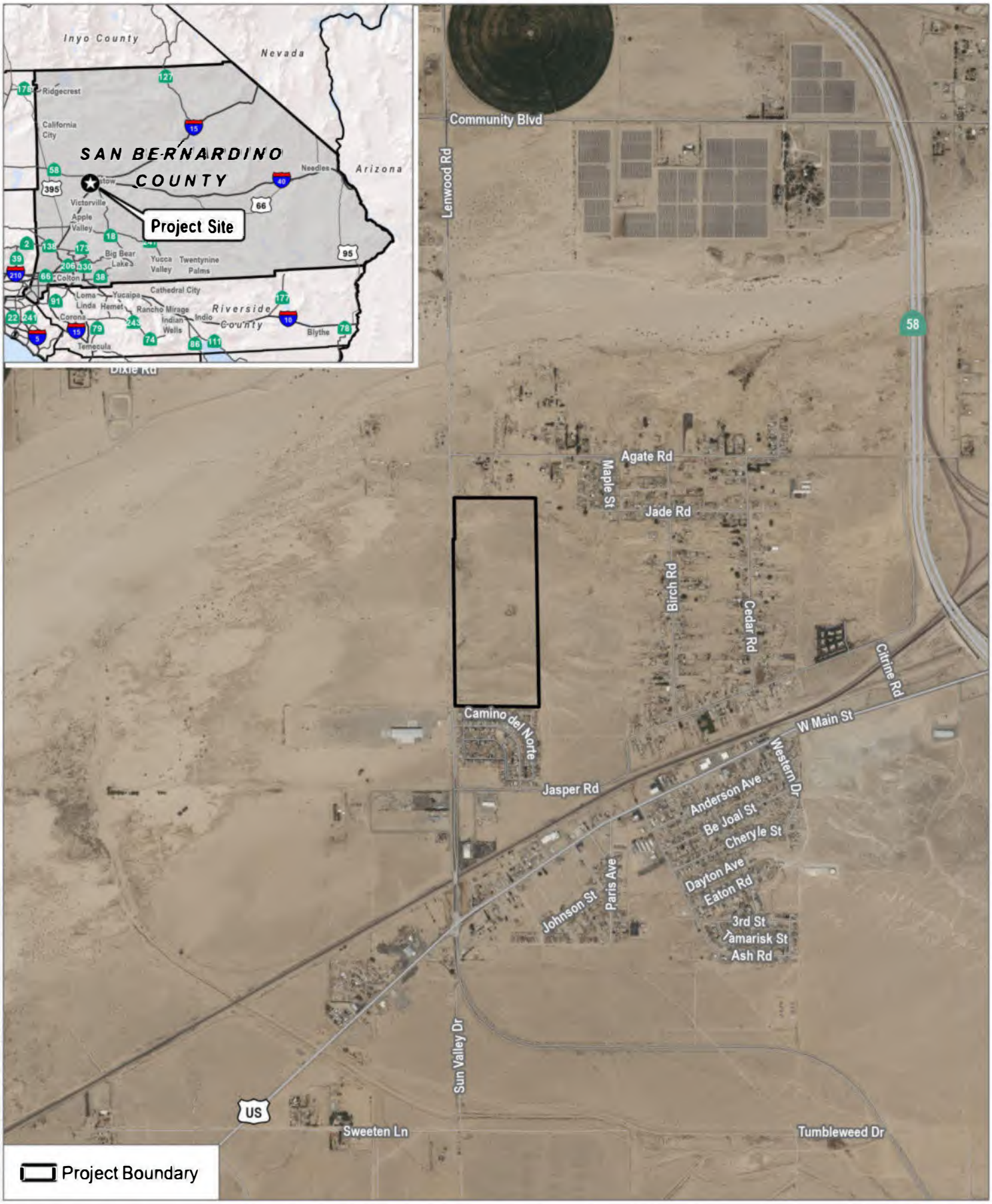
Figure 1 Project Location Map



SOURCE: Bing Maps Aerial (accessed 2023), Open Street Maps 2019

DUDEK

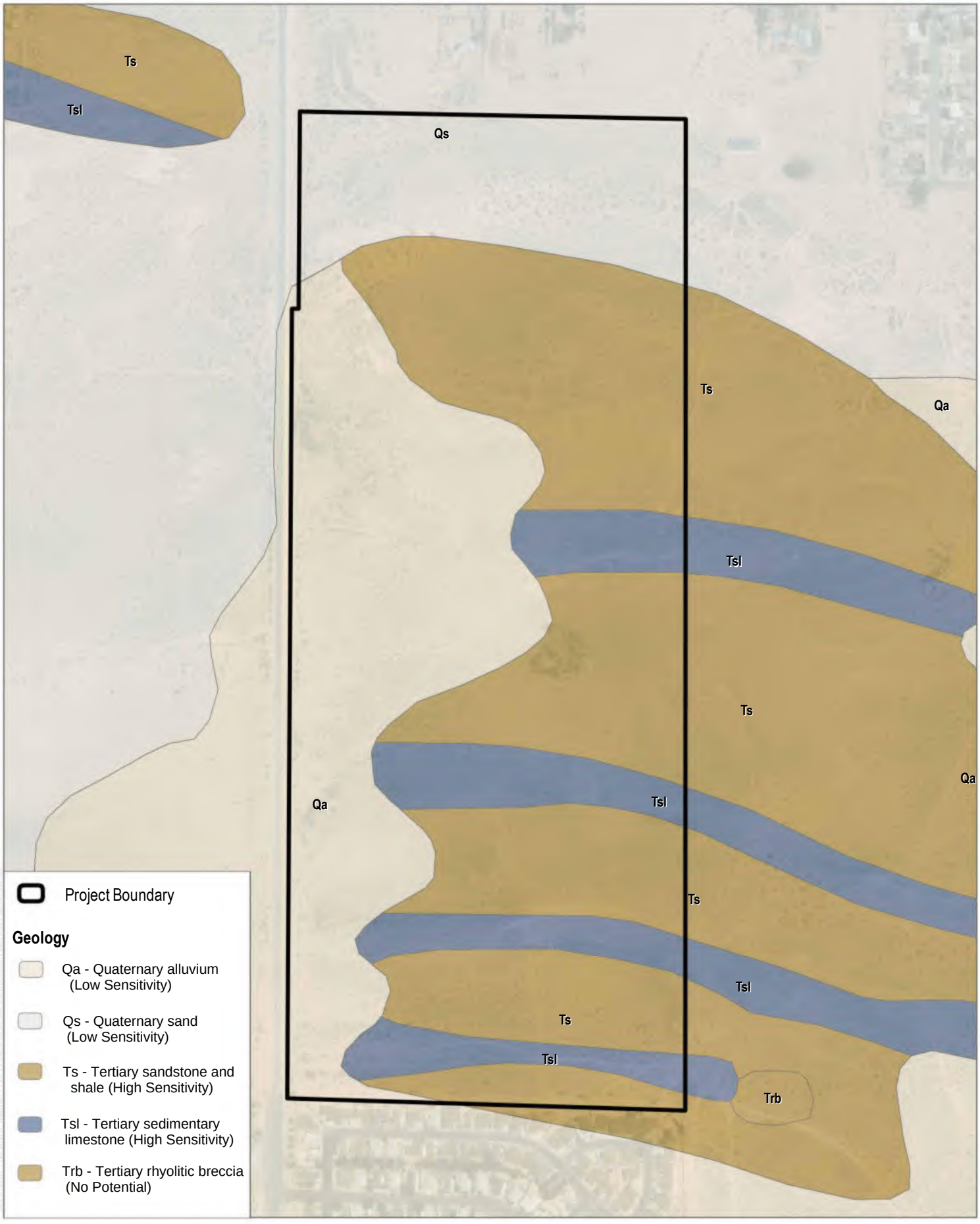
0 1,000 2,000 Feet

FIGURE 1

Project Location

EVC Truck Stop Project

Figure 2 Geological Map



SOURCE: Dibblee, T.W., and Minch, J.A., 2008, Geologic map of the Barstow & Daggett 15 minute quadrangles, San Bernardino County, California 2008

DUDEK

0 200 400 Feet

FIGURE 2

Geologic Map

EV Charging Truck Stop Projec

Appendix A
Survey Photos

Photo 1: Facing South-south west. Dunes in the north east.

Photo 2: Facing Northwest. Overview.

Photo 3: Facing East. Prominent sedimentary rock outcropping.

Photo 4: Facing west. Possible collapsed borrow and exposed sedimentary rock.

Confidential Appendix B

LACM Records Search Results (Confidential)

Appendix G

Phase I Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT
PROPOSED LAND DEVELOPMENT
SOUTHEAST OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, CALIFORNIA 92311

Prepared For:
EVC Partners, LLC
2410 Fair Oaks Boulevard, Suite 110
Sacramento, CA 95825

Prepared By:
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Project Number: H07603.01

June 15, 2022

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PHASE I ENVIRONMENTAL SITE ASSESSMENT

PROPOSED LAND DEVELOPMENT
SOUTHEAST OF LENWOOD ROAD AND AGATE ROAD
BARSTOW, CA 92311

EXECUTIVE SUMMARY

Moore Twining Associates, Inc. (Moore Twining) was retained by EVC Partners, LLC to conduct a Phase I Environmental Site Assessment (Phase I ESA) for a property located southeast of Lenwood Road and Agate Road, in Barstow, California (Subject Property). This Phase I ESA was conducted in conformance with the methods and procedures described in the American Society for Testing and Materials (ASTM) "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" (E1527-21), published November 2021.

This summary should be used in conjunction with the entire report. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the Subject Property history and conditions. Please review the entire report for more information regarding Moore Twining's findings and opinions.

Subject Property Summary

The Subject Property is located southeast of Lenwood Road and Agate Road, in Barstow, California. The Subject Property comprises approximately 96.06 acres of vacant, undeveloped land. The Subject Property is associated with the San Bernardino County assessor's parcel numbers 049-714-203, 049-714-204, 049-714-214, and 049-714-215.

At the time of Subject Property reconnaissance, the Subject Property was undeveloped land, but a transient camp was observed toward the south-central portion of the Subject Property. According to EVC Partners, LLC, the camp was removed by authorities following the subject property reconnaissance.

Based on Moore Twining's review of historical documents, the Subject Property was vacant undeveloped land since at least the early 1950's.

The Subject Property is not listed within a 1% or a 0.2% Annual Chance Flood Hazard zone.

The Subject Property was not listed on any regulatory databases.

Off-Site Property Summary

Based on Moore Twining's review of historical documents, the properties surrounding the Subject Property have been primarily vacant/undeveloped land. During the 1960's, a small residential community was developed to the east-northeast of the Subject Property. In the mid-1980's, a residential development was developed to the south of the Subject Property. A commercial structure was present by 2005 to the southwest, across Lenwood Road.

At the time of the Subject Property reconnaissance, a residential development was present to the south. Undeveloped land was present to the east. Lenwood Road adjoined the Subject Property to the west, followed by undeveloped land. To the north was undeveloped land and single-family homes.

Conclusions Summary

On behalf of EVC Partners, LLC, Moore Twining performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM E1527-21 for a property located southeast of Lenwood Road and Agate Road, in Barstow, California. This assessment has revealed no evidence of CRECs, HRECs, or RECs.

1.0 INTRODUCTION

Moore Twining Associates, Inc. (Moore Twining) was retained by EVC Partners, LLC to conduct a Phase I Environmental Site Assessment (Phase I ESA) for a property located southeast of Lenwood Road and Agate Road in Barstow, California (Subject Property). This Phase I ESA was conducted in conformance with the methods and procedures described in the American Society for Testing and Materials (ASTM) "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" (E1527-21), published November 2021.

1.1 Objective

The objective of this assessment was to identify Recognized Environmental Conditions (RECs) located at the Subject Property or adjacent properties that could present material risk of harm to public health or to the environment. Recognized environmental conditions are defined in ASTM E1527-21 as the presence or likely presence of any hazardous wastes and/or substances or petroleum products in, on or at a property under conditions that indicate an existing release, a past release, or a material threat of a release to the environment.

1.2 Scope of Services

This Phase I ESA was performed to evaluate the potential presence of environmental conditions that may have resulted from operations at the Subject Property or at nearby properties. The assessment included a Subject Property reconnaissance, a review of available documentation of land-use history for evidence of the use, storage and/or disposal of hazardous substances, and a review of available regulatory information. This Phase I ESA included the following tasks:

- A review of the current and past uses of the Subject Property since 1932;
- A Subject Property reconnaissance to assess evidence of current and/or past use or storage of toxic or hazardous material; on-Subject Property ponds, landfills, drywells, waste streams or other disposal units; visible soil discoloration; aboveground or underground storage tanks; electrical transformers containing polychlorinated biphenyls (PCBs); and drums, barrels, and other storage containers;
- Visual observation of adjacent properties in order to determine if current and/or historical operations associated with these properties may pose a threat to the Subject Property;
- A review of available federal Environmental Protection Agency (EPA), state EPA and regulatory agency lists of known or potential hazardous waste sites or landfills, and sites currently under investigation for environmental violations in the Subject Property area. Using area-profile services provided by Environmental Data Resources, Inc. (EDR), Moore Twining cataloged properties near the Subject Property that have been identified on regulatory agency lists. Search criteria were in conformance with ASTM E1527-21;

- Contact with relevant municipal, county and state agencies to review readily available records and permits; and

- Preparation of this report to present our methods, findings and conclusions.

The Scope of Services specifically excluded cultural, archeological, and biological assessments, as well as sampling and analysis for the potential presence of asbestos containing building materials, lead based paint, or an assessment for radon gas. In addition, the Scope of Services did not include the collection and/or analysis of any materials including air, soil, soil-gas, or groundwater samples.

1.3 Limitations and Limited Conditions

The purpose of an environmental assessment is to reasonably assess the potential for, or actual impact of, past practices on a given Subject Property that may pose an environmental impairment to the Subject Property. No assessment is thorough enough to identify all potential environmental impairments at a given Subject Property. If environmental impairments have not been identified during the assessment, such a finding should not, therefore, be construed as a guarantee of the absence of such conditions on the Subject Property, but rather the result of the services performed within the scope, limitations, and cost of the work performed.

The conclusions presented in this report are solely professional opinions based on information provided regarding the Subject Property and the findings of the reconnaissance and records search. Information obtained from the aerial photography is an interpretation of features observed in the photographs. Actual conditions at the Subject Property may have been different from those interpreted. Conclusions presented are based on conditions as they existed at the time the work was performed. Changes in existing conditions of the Subject Property due to time lapse, natural causes, or operations adjacent to the Subject Property may deem conclusions presented in this Phase I ESA report invalid, unless the changes are reviewed, and the conclusions reevaluated. Such conditions may require additional Subject Property reconnaissance and require field exploration and laboratory testing to assess if the conclusions are applicable considering the changed conditions.

This work was performed for the sole use of our client. Any reliance on this report by a third party is at such party's sole risk. Others who seek to rely on the findings have a duty to determine the adequacy of this report for their intended use, time, and location. Moore Twining does not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report. No other warranty, either expressed or implied, is made. The standard of practice is time dependent. Services provided were performed consistent with generally accepted professional consulting principles and practices for environmental assessors at the time this work was performed. The findings and conclusions presented in this report are solely professional opinions derived in accordance with current standards of professional practice.

2.0 SUBJECT PROPERTY DESCRIPTION

Information concerning the Subject Property was obtained from a Subject Property reconnaissance and a review of the documents referenced in Sections 4.0 and 5.0 of this report. This information is summarized in the following sections.

2.1 Location and Description of Property

The Subject Property is located southeast of Lenwood Road and Agate Road, in Barstow, California. The Subject Property comprises approximately 96.06 acres of vacant, undeveloped land. The Subject Property is associated with the San Bernardino County assessor's parcel numbers 049-714-203, 049-714-204, 049-714-214, and 049-714-215.

The listed owner for the Subject Property is:
Kevin Lee Quaid

A Subject Property location map is presented as Drawing 1, and a Subject Property plan, which includes Subject Property boundaries, is presented as Drawing 2 in Appendix A.

2.2 Physical and Environmental Setting of the Subject Property

Environmental characteristics including topography, geology, soil, and hydrogeology were evaluated based on Subject Property observations, and review of published literature and maps. The findings are summarized in the following table.

PHYSICAL SETTING INFORMATION FOR THE SUBJECT PROPERTY AND SURROUNDING AREA		SOURCE
Location	Barstow, California	EDR Report, April 11, 2022
Subject Property Elevation	The Subject Property elevation is approximately 2,215 feet above mean sea level.	
Topographic Gradient	Generally sloping toward the north.	
Closest Surface Water	The Mojave River, an intermittent river located approximately 0.4 miles north of the subject Property.	
Flood Plains[1]	According to FEMA DFIRM Flood Data provided by EDR, the Subject Property is not located within a 1% or a 0.2% Annual Chance Flood Hazard zone.	FEMA DFIRM Flood Data Map 06071C3915H

[1] This is for general locational information only. The data presented should not be used for development purposes, as a comprehensive flood zone study has not been conducted.

PHYSICAL SETTING INFORMATION FOR THE SUBJECT PROPERTY AND SURROUNDING AREA		SOURCE
Wetlands	No wetlands were reported on the Property[2].	National Wetlands Inventory https://www.fws.gov/wetlands/data/mapper.html
General Soil Characteristics		
Soil Type	Victorville	United States Department of Agriculture, Soil Survey website; http://websoilsurvey.sc.egov.usda.gov
Description	Soils are deep to moderately deep, moderately well to well drained, with moderately coarse textures.	
Area Specific Geology/Hydrogeology Characteristics		
Geology	The Subject Property is located within the Mojave Geomorphic Province, a region of isolated mountain ranges and broad expanses of desert and playas with an enclosed drainage pattern. The Mojave Geomorphic Province creates a sharp angled wedge between the Garlock Fault, the southern boundary of the Sierra Nevada Mountain Range, and the San Andreas Fault, where it bends to the east from its typical northwest trend. The general topography of the region is controlled by these two main fault systems which puts the Mojave in apparent alignment with the Transverse Ranges Geomorphic Province to the west. The subsurface of the Site is characterized by thick sequences of Pleistocene age alluvium, terrace, and playa deposits.	(Wagner, 2002) (California Geologic Survey, 2010)
Hydrogeology	According to information obtained from the GeoTracker website Property, depth to first encountered groundwater is estimated to be approximately 100 feet below ground surface.	GeoTracker
Oil and Gas Wells		
Current Oil and Gas Wells on Subject Property	No oil and/or gas wells were reported to be on the Subject Property or on adjoining properties within 1,000 feet.	California Department of Conservation, Geologic Energy Management Division (CalGEM) websitehttps://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx

[2] This is for general locational information only. The data presented should not be used for development purposes, as a comprehensive wetland study has not been conducted.

PHYSICAL SETTING INFORMATION FOR THE SUBJECT PROPERTY AND SURROUNDING AREA		SOURCE
Historical Oil and Gas Wells on Subject Property	No historical oil and/or gas wells were reported to be located on the Subject Property or on adjoining properties within 1,000 feet.	California Department of Conservation, CalGEM website http://www.conservation.ca.gov/dog/Pages/WellFinder.aspx

3.0 INFORMATION FROM THE SUBJECT PROPERTY RECONNAISSANCE

The objective of the subject property reconnaissance was to observe the Subject Property for specific indicators of environmental conditions. The reconnaissance included a systematic search by foot of practically accessible areas of the Subject Property and adjacent properties. A Site Plan depicting the Subject Property, adjoining property use, and observed on-Subject Property features is presented in Appendix A of this report. Additionally, photographs were taken during the Subject Property reconnaissance, and selected photographs of the Subject Property are presented in Appendix B of this report.

The Subject Property reconnaissance was conducted on April 15, 2022, by Ms. Sara Bloom, a representative of Moore Twining.

3.1 Subject Property Reconnaissance - Description of Structures, Roads, and Other Subject Property Improvements

At the time of the Subject Property reconnaissance, the Subject Property comprised approximately 96.06 acres of undeveloped land.

3.2 Current Uses of the Subject Property

At the time of Subject Property reconnaissance, the Subject Property was undeveloped land; a transient camp was observed toward the south-central portion of the Subject Property.

3.3 Current Uses of the Adjoining Properties

At the time of the Subject Property reconnaissance:

- A residential development was located to the south;
- Undeveloped land was located to the east;
- Lenwood road was located to the west with undeveloped land beyond;
- Undeveloped land and single-family homes were located to the north.

3.4 Subject Property Reconnaissance - Specific Indicators of Environmental Conditions

In addition to the general description of the Subject Property, specific indicators of environmental conditions were also evaluated for the Subject Property. Observations made during the Subject Property

reconnaissance are summarized in the following table. Affirmative responses are discussed in more detail following the table.

Category	Feature	Observed
Interior (N/A)	Elevators	N/A
	Air Compressors	N/A
	Incinerators	N/A
	Waste Treatment Systems	N/A
	Presses/Stamping Equipment	N/A
	Press Pits	N/A
	Hydraulic Lifts or Hoists	N/A
	Paint Booth	N/A
	Plating Tanks	N/A
	Lathes, Screw Machines, etc.	N/A
	Regulated Hazardous Materials Use and Storage	N/A
	Floor Drains and Similar Facilities	N/A
Aboveground Chemical or Other Waste Storage or Waste Streams	Aboveground Storage Tanks (ASTs)	No
	Drums, Barrels and/or Containers > than 5-gallons	No
	Chip Hoppers	No
	Hazardous or Petroleum Waste Streams	No
Underground Chemical or Waste storage, Drainage or Collection Systems	Underground Storage Tanks (USTs)	No
	Fuel Dispensers	No
	Sumps or Cisterns	No
	Dry Wells	No
	Oil/Water Separators	No
	Flood Drains, Trench Drains, etc.	No
	Pipeline Markers	No
Exterior Observations	Stressed Vegetation	No
	Stained Soil or Pavement	No
	Pad or Pole-Mounted Transformers and/or Capacitors	No
	Soil Piles of Unknown Origin	No
	Exterior Dumpsters with Staining	No
	Hydraulic Box Crushers	No
	Leachate or Other Waste Seeps	No
	Trash, Debris, and/or Other Waste Materials	**Yes**
	Uncontrolled Dumping or Disposal Areas	**Yes**
	Surface Water Discoloration, Sheen or Free Product	No
	Strong, Pungent or Noxious Odors	No
	Storm Water Retention or Detention Ponds	No
	Pits, Ponds or Lagoons	No

Throughout the Subject Property, tires, concrete debris, and household trash were observed. A transient camp was observed to the south-central portion of the Subject Property, but, for safety reasons, was only viewed from a distance that was deemed to be safe.

4.0 HISTORICAL AND CURRENT INFORMATION ON THE PROPERTY AND ADJOINING PROPERTIES

The history of land-use on and near the Subject Property was determined from the review of historic aerial photographs, topographic maps, Sanborn maps, building permits, and historic city directories. The findings are summarized in the following subsections.

4.1 Aerial Photograph Review

Available historical aerial photographs of the Subject Property and vicinity for the years 1953, 1959, 1964, 1968, 1970, 1973, 1984, 2005, 2009, 2012, and 2016 were reviewed for indications of past Subject Property use and/or Subject Property activities which may have involved the manufacture, generation, use, storage, and/or disposal of hazardous materials. The results of the aerial photograph review are summarized in the following table. Copies of the historical aerial photographs are included in Appendix D of this report.

Year	Summary of Information
1953-1959 (EDR)	The Subject Property and surrounding areas are vacant, undeveloped land. Lenwood Road is present to the west.
1964-1973 (EDR)	No change to the Subject Property was observed. A residential development was present to the northeast.
1984 (EDR)	No change to the Subject Property is observed. Additional residential structures are present to the north of the Subject Property. To the south, streets have been developed for a residential development. To the west-southwest, across Lenwood Road, grading has been conducted.
2005-2016 (EDR)	No change to the Subject Property was observed. To the south, the residential community has been further developed. A large rectangular commercial structure is now present to the southwest, across Lenwood Road. No changes to the north or east were observed.

4.2 Topographic Map Review

Available topographic maps of the Subject Property and vicinity for the years 1932, 1934, 1956, 1971, 1984, 1993, 2012, 2015, and 2018 were reviewed for indications of past Subject Property use and/or Subject Property activities which may have involved the manufacture, generation, use, storage, and/or disposal of hazardous materials. Copies of the historical topographic maps are included in Appendix D.

No environmental concerns were observed on the Subject Property or adjacent properties.

4.3 Sanborn Fire Insurance Map Review

Sanborn maps were not available for the Subject Property or surrounding areas.

4.4 Historical City Directory Review

City directories can provide information concerning past and current occupancy of the Subject Property and adjacent areas. Historical city directory information for this assessment was provided by EDR. A copy of the historical city directories is included in Appendix D.

On-Subject Property

The Subject Property was not listed in the EDR City Directory.

Off-Site Property

No adjacent properties were identified in the EDR City Directory report.

4.5 Building Permits

Building records can provide a history of on-site structures, features, and development. A records request was submitted to the City of Barstow and the San Bernardino County; neither agency had any building permits or records. A copy of the records request and response is included in Appendix D of this report.

4.6 Review of Record Land Title Records

Title documents, including a chain of title and/or title report, can provide the environmental professional with information regarding current and past ownership and information regarding environmental liens and/or land use and activity limitations.

No institutional and engineering controls, land use limitations or environmental liens related to remediation and/or cleanup were found as part of this assessment.

Title Vested In	Title Vested From	Deed Date	Deed Date Recorded	Comments
Kevin Lee Quaid or any Successor Trustee, Kevin Lee Quaid Family Trust	Kevin Lee Quaid, an unmarried man	02/15/2017	02/15/2017	None
Kevin Lee Quaid, an unmarried man	Kevin Lee Quaid, as Successor Trustee, or any Successor Trustee, Sue Kint Family TrustV	02/15/2017	02/15/2017	None

Sue Kint as Trustee of The Sue Kint Family Trust	George T Kubota, Trustee of the Delcaration of Trust, his ½ interest	03/28/2014	03/31/2014	Affidavit – Death of Trustee, R. 08/08/2014, as instrument No. 2014-0289379; Sue Kint, deceased 06/19/2014 and Kevin Lee Quaid named Successor Trustee
Sue Kint as Trustee of the Sue Kint Family Trust, and George T Kubota, Trustee of the Declaration of Trust, each as to an undivided ½ interest	Desert Wind, LLC	05/22/2008	09/24/2008	None
Desert Wind, LLC	George T Kubota, Trustee of the Declaration of Trust, and Sue Kint as Trustee of the Sue Kint Family Trust	11/04/2005	02/06/2006	None
Sue Kint, as Trustee, or any Successor Trustee, U/DD/T, names Sue Kint Family Trust, Created by Sue Kint, Trustor, as to an undivided 50% ownership	Sue Kint, a married woman, as to an undivided 50% ownership	12/19/1998	12/31/1998	None
George T Kubota, Trustee of the Declaration of Trust	George Kubota, a single man, as to an undivided ½ interest	08/19/1992	08/26/1992	None
George Kubota, a single man, an undivided ½ interest	Orange Property Management, Inc.	09/25/1989	09/29/1989	None
Orange Property Management, Inc. an undivided ½ interest	Le-Luan Chao	09/27/1989	09/29/1989	None
Sue Kint, a married woman	Bradley A Kint, husband of the Grantee Herein	09/29/1989	09/29/1989	None
Sue Kint, a married woman, an undivided ½ interest	Le-Luan Chao	09/27/1989	09/29/1989	None

Le-Luan Chao, a single woman	Norman J Rowan and Dolores E Rowan, H&W	09/01/1989	09/26/1989	None
Norman J Rowan and Dolores E Rowan, H&W	William M Clover and Barbara R Clover, as Trustees of the Intervivos Trust Agreement	06/21/1979	09/25/1979	None
William M Clover and Barbara R Clover, H&W	Clarence A Hunt and Marie Ann Hunt, H&W	06/08/1967	07/07/1967	NW ¼ NW ¼, Sec 8, T9N, R2W
Clarence A Hunt and Marie Ann Hunt, H&W	Kenneth L Lutz and Marjorie M Lutz, H&W	06/14/1962	07/30/1962	None
Kenneth L Lutz and Marjorie M Lutz, H&W	Clarence A Hunt and Marie Ann Hunt, H&W	07/21/1958	09/15/1958	None
Gale H Pike, a single man, Thelma H Pike, a widow and Leland J Ellis, a single man	Charles Ronald Rouse and Ellen B Rouse, H&W	02/20/1956	03/13/1956	None
Charles Ronald Rouse	The United States of America	08/03/1953	03/25/1955	None

4.7 User Provided Information

This section summarizes information provided by the user that assisted in the identification of potential RECs associated with the Subject Property.

4.7.1 Environmental Questionnaires

Moore Twining submitted Environmental Questionnaires to Mr. Brian Vail (User/Client) and Mr. Kevin Lee Quaid (property owner). Mr. Vail had no prior knowledge about the current or past uses of the Subject Property, nor was he aware of any environmental liens or impacts or AULs which may impact the Subject Property. Mr. Quaid had no knowledge of any past activities/uses of the subject Property.

Copies of the completed questionnaires are included in Appendix E of this report.

Following the reconnaissance, Mr. Vail was informed of the transient camp located on the Subject Property. Mr. Vail later informed Moore Twining via email that the land owner had reported the camp and that the camp was subsequently removed by law enforcement.

4.7.2 Previous Investigations

No reports of previous investigations were provided by the client or otherwise located.

4.7.3 Title Documentation

Title documents, including a chain of title and/or title report, can provide the environmental professional with information regarding current and past ownership and information regarding environmental liens and/or land use and activity limitations.

Title Vested In	Title Vested From	Deed Date	Deed Date Recorded	Comments
Kevin Lee Quaid or any Successor Trustee, Kevin Lee Quaid Family Trust	Kevin Lee Quaid, an unmarried man	02/15/2017	02/15/2017	None
Kevin Lee Quaid, an unmarried man	Kevin Lee Quaid, as Successor Trustee, or any Successor Trustee, Sue Kint Family TrustV	02/15/2017	02/15/2017	None
Sue Kint as Trustee of The Sue Kint Family Trust	George T Kubota, Trustee of the Delcaration of Trust, his ½ interest	03/28/2014	03/31/2014	Affidavit – Death of Trustee, R. 08/08/2014, as instrument No. 2014-0289379; Sue Kint, deceased 06/19/2014 and Kevin Lee Quaid named Successor Trustee
Sue Kint as Trustee of the Sue Kint Family Trust, and George T Kubota, Trustee of the Declaration of Trust, each as to an undivided ½ interest	Desert Wind, LLC	05/22/2008	09/24/2008	None
Desert Wind, LLC	George T Kubota, Trustee of the Declaration of Trust, and Sue Kint as Trustee of the Sue Kint Family Trust	11/04/2005	02/06/2006	None
Sue Kint, as Trustee, or any Successor Trustee, U/DD/T, names Sue Kint Family Trust, Created by Sue Kint, Trustor, as to an undivided 50% ownership	Sue Kint, a married woman, as to an undivided 50% ownership	12/19/1998	12/31/1998	None

George T Kubota, Trustee of the Declaration of Trust	George Kubota, a single man, as to an undivided ½ interest	08/19/1992	08/26/1992	None
George Kubota, a single man, an undivided ½ interest	Orange Property Management, Inc.	09/25/1989	09/29/1989	None
Orange Property Management, Inc. an undivided ½ interest	Le-Luan Chao	09/27/1989	09/29/1989	None
Sue Kint, a married woman	Bradley A Kint, husband of the Grantee Herein	09/29/1989	09/29/1989	None
Sue Kint, a married woman, an undivided ½ interest	Le-Luan Chao	09/27/1989	09/29/1989	None
Le-Luan Chao, a single woman	Norman J Rowan and Dolores E Rowan, H&W	09/01/1989	09/26/1989	None
Norman J Rowan and Dolores E Rowan, H&W	William M Clover and Barbara R Clover, as Trustees of the Intervivos Trust Agreement	06/21/1979	09/25/1979	None
William M Clover and Barbara R Clover, H&W	Clarence A Hunt and Marie Ann Hunt, H&W	06/08/1967	07/07/1967	NW ¼ NW ¼, Sec 8, T9N, R2W
Clarence A Hunt and Marie Ann Hunt, H&W	Kenneth L Lutz and Marjorie M Lutz, H&W	06/14/1962	07/30/1962	None
Kenneth L Lutz and Marjorie M Lutz, H&W	Clarence A Hunt and Marie Ann Hunt, H&W	07/21/1958	09/15/1958	None
Gale H Pike, a single man, Thelma H Pike, a widow and Leland J Ellis, a single man	Charles Ronald Rouse and Ellen B Rouse, H&W	02/20/1956	03/13/1956	None
Charles Ronald Rouse	The United States of America	08/03/1953	03/25/1955	None

4.7.4 Institutional and Engineering Controls/Land Use Limitations/Environmental Liens

Institutional and Engineering Controls can indicate the current and/or historical presence of recognized environmental conditions that required remedial activity at the Subject Property.

No institutional and engineering controls, land use limitations, or environmental liens related to remediation and/or cleanup were found as part of this assessment.

4.8 Past Uses of the Property

Based on Moore Twining's review of historical documents, the Subject Property was vacant undeveloped land since at least the early 1930's.

4.9 Past Uses of Adjoining Property

Based on Moore Twining's review of historical documents, the properties surrounding the Subject Property have been primarily vacant/undeveloped. During the 1960's, a small residential community was developed to the east-northeast. By the mid-1980's, a residential development began development to the south. A commercial structure was built sometime between 1984 and 2005 to the southwest, across Lenwood Road.

5.0 REGULATORY RECORDS REVIEW

Requests to review files for the Subject Property were submitted to the Regional Water Quality Control Board (RWQCB), the Department of Toxic Substances Control (DTSC), and the San Bernardino County Department of Environmental Health (SBCDEH). Printouts and information from regulatory databases and agencies are included in Appendix C.

5.1 Facilities Identified in the Regulatory Record Review

The information regarding the Subject Property was obtained from the EDR report, the DTSC Envirostor website (http://envirostor.dtsc.ca.gov/, Envirostor), and the State Water Resource Control Board's GeoTracker website (http://geotracker.waterboards.ca.gov/, GeoTracker). At the time this report was issued to the client, the Subject Property did not appear on either website.

5.2 Facilities Identified in the EDR Report

Moore Twining contracted EDR to perform a search of available federal, state, and local database information systems for identifying known recognized environmental conditions present on the Subject Property and nearby properties that have the potential to adversely impact the Subject Property being assessed in this study. EDR's findings are summarized below. The complete report furnished by EDR is included in Appendix D of the report.

TABLE 1
SUMMARY OF REGULATORY LISTS SEARCHED BY EDR AND RECORDS REVIEWED*

Database	Target Subject Property	Search Distance (Miles)	< 1/8	1/8 - ¼	1/4 - ½	½ - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
Federal Facility		0.500	0	0	0	NR	NR	0
SEMS		0.500	0	0	0	NR	NR	0
SEMS Archive		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA-TSDF		0.500	0	0	0	NR	NR	0
RCRA Lg, Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA-VSQG		0.250	0	0	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROLS		0.500	0	0	0	NR	NR	0
ERNS		0.001	0	NR	NR	NR	NR	0
STATE ASTM STANDARD								
RESPONSE		1.000	0	0	0	0	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
SWF/LF		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	1	NR	NR	1
INDIAN LUST		0.500	0	0	0	NR	NR	0
CPS-SLIC		0.500	0	0	0	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
INDIAN VCP		0.500	0	0	0	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0

NR = Not Requested (Beyond Search Distance)
TP = Target Property
* = Table includes only databases required for ASTM E1527-21 compliance. Other databases are included in the EDR report and discussed in the following sections as appropriate.

5.2.1 On-Subject Property

The Subject Property was not listed on any regulatory databases.

5.2.2 Off-Subject Property

Moore Twining's review of the referenced databases also considered the potential or likelihood of contamination from adjoining and nearby properties impacting this Subject Property. To evaluate which of the adjoining and nearby properties identified in the regulatory database report present an environmental risk to the Subject Property, Moore Twining considered the following criteria:

- The type of database on which the property is identified;
- The topographic position of the property relative to the Subject Property;
- The direction and distance of the property from the Subject Property;
- Local soil conditions in the area of the Subject Property;
- The known or inferred groundwater flow direction;
- The status of the respective regulatory agency-required investigation(s) of the identified property, if any; and
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes and ditches) located between the property and the Subject Property.

Summary of Identified Properties				
Property	**Distance from Property**	**Databases**	**Risk to Property**	**Rationale**
Valmont Newmark, Newmark Intl Inc. 3970 Lenwood Road	267 feet southwest and up-gradient	RCRA NonGen/NLR HWTS CERS Haz Waste NPDES San Bern Co Permit CIWQS CERS	No	The listed site is a supplier of metal and concrete products used for construction. No manufacturing of products takes place at the facility. Wastes include concrete items that have broken. Multiple violations have been reported, but all have been corrected, and were typically corrected at the time of inspection. Violations were typically associated with labeling of waste storage containers or paperwork. The listed site is not considered a risk to the Subject Property.

No other off-site properties were judged to present a potential environmental risk to the Subject Property and/or warranted additional clarification.

5.2.3 Orphan Properties

An Orphan Property is a listed property in the same zip code as the Subject Property which cannot be mapped because of inadequate address information. One Orphan Property was included in the EDR report, but based on review available data, it is considered a low risk to the Subject Property.

6.0 SUMMARY OF FINDINGS AND OPINIONS

The findings of the Phase I ESA are summarized in the following sections:

6.1 Subject Property

The Subject Property is located southeast of Lenwood Road and Agate Road, in Barstow, California. The Subject Property comprises approximately 96.06 acres of vacant, undeveloped land. The property is associated with the San Bernardino County assessor's parcel numbers 049-714-203, 049-714-204, 049-714-214, and 049-714-215.

At the time of Subject Property reconnaissance, the Subject Property was undeveloped land with a transient camp was observed toward the south-central portion of the property. Following reporting the camp to EVC Partners, LLC, the camp was removed by law enforcement.

Based on Moore Twining's review of historical documents, the Subject Property was vacant undeveloped land since at least the early 1930's.

The Subject Property is not listed within a 1% or a 0.2% Annual Chance Flood Hazard zone.

The Subject Property was not listed on any regulatory databases.

6.2 Off-Subject Property

Based on Moore Twining's review of historical documents, the properties surrounding the Subject Property have been primarily vacant/undeveloped. During the 1960's, a small residential community was developed to the east-northeast. By the mid-1980's, a residential development began development to the south. A commercial structure was built sometime between 1984 and 2005 to the southwest, across Lenwood Road.

At the time of the Subject Property reconnaissance a residential development was to the south, undeveloped land was to the east, Lenwood road was to the west with undeveloped land beyond, and undeveloped land and single-family homes were to the north.

6.3 Data Gaps, Limitations, and Deviations

Data gaps are described as a lack of or inability to obtain information required by the standards and practices listed in ASTM E1527-21, despite good faith efforts by the environmental professional or prospective landowner.

The material content of this report is intended to be consistent with a standard of practice as defined by ASTM E1527-21. However, the report format differs in style, arrangement, and presentation of material facts from the format described by ASTM.

7.0 CONCLUSIONS

On behalf of EVC Partners, LLC, Moore Twining performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM E1527-21 for a property located southeast of Lenwood Road and Agate Road, in Barstow, California. This assessment has revealed no evidence of CRECs, HRECs, or RECs.

8.0 CLOSING

Moore Twining Associates, Inc. performed a Phase I Environmental Subject Property Assessment in conformance with the scope and limitations of ASTM E1527-21 for the Subject Property. Any exceptions to, or deletions from, this practice are described Section 6.3 of this report.

We appreciate the opportunity to be of service to EVC Partners, LLC on this project. Please contact our office at (800) 268-7021 if you have any questions regarding this report.

Sincerely,
MOORE TWINING ASSOCIATES, INC.
Environmental Services Division

Sara Bloom
Phase I Assessment Project Manager

Katie Lister PG, QSD
Senior Geologist

"I declare that, to the best of my knowledge and belief, I meet the definition of Environmental Professional. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312."

9.0 REFERENCES

American Society for Testing and Materials. (2021). *ASTM Standards of Environmental Site Assessments for Commercial Real Estate, E1527-21, 2nd ed.* West Conshohocken, Pennsylvania: ASTM International.

California Geologic Survey. (2010). *Geologic Map of California 1:750,000 Scale.*

Environmental Data Resources, Inc. (April 11 2022). *, NE Corner of Highway 58 and Old Tracy Road, Barstow, CA Inquriy Number: 06933947.* Environmental Data Resources, Inc.

Wagner, D. (2002). *Note 36: Geomorphic Map of California.* California Geologic Survey.

10.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Moore Twining Associates, Inc. Phase I Environmental Site Assessment staff is composed of a group of environmental professionals that perform Environmental Site Assessments on a routine basis. The Phase I ESA staff is managed and supervised by individuals who conduct, prepare, oversee, and/or review Environmental Site Assessments on a daily basis. Qualification profiles for these individuals are provided in the following section.

Prepared By
Sara Bloom

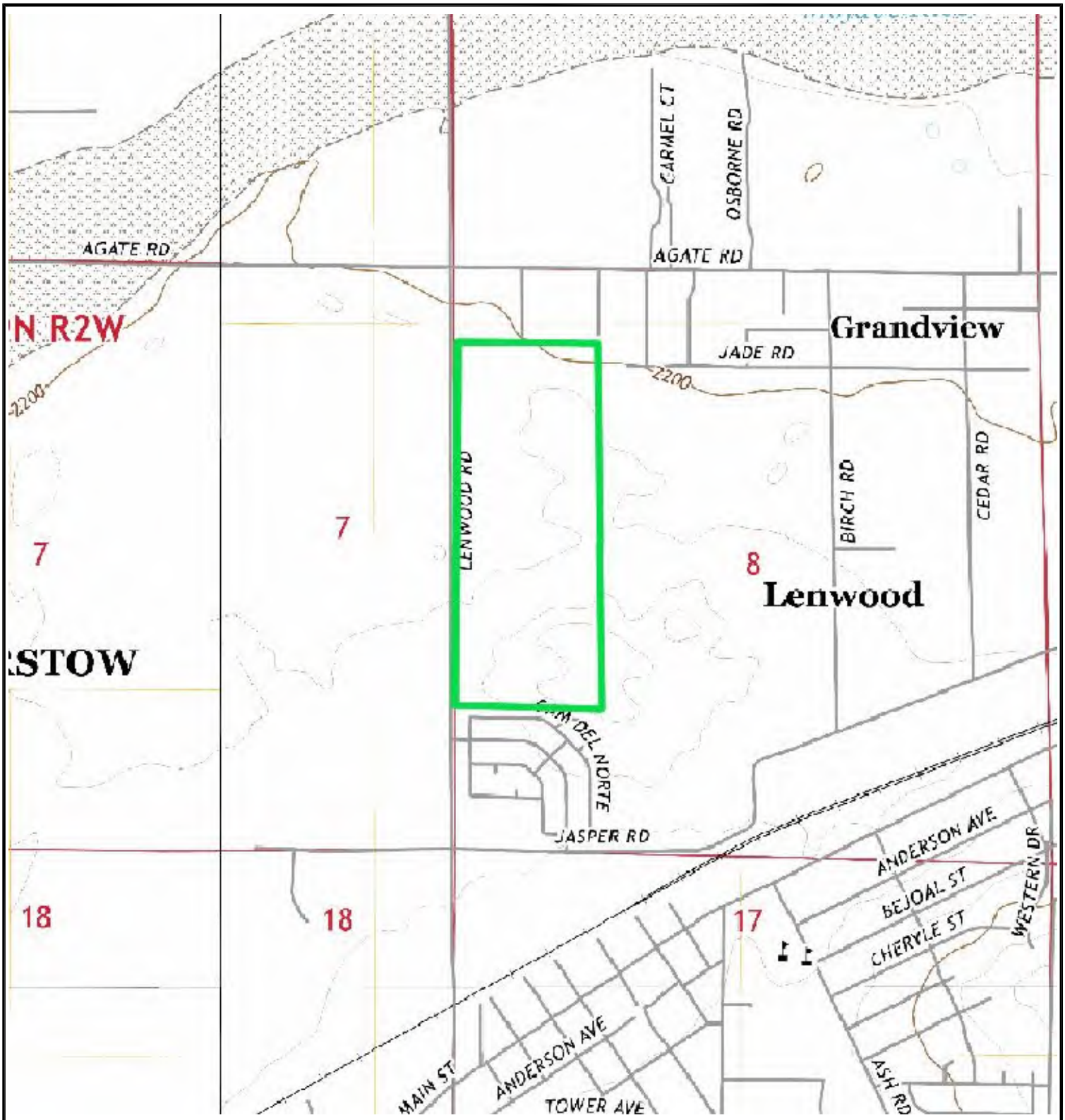
Ms. Bloom has eighteen years of experience conducting Phase I Environmental Site Assessments, Phase II assessment work, and Phase III remediation. Ms. Bloom has conducted environmental Subject Property assessments for a number of different project types including shopping centers, industrial properties, gas stations/bulk terminals, dry cleaners, and large vacant properties.

Reviewed by
Katie Lister PG, QSD
Senior Geologist

Mrs. Lister has nineteen years of experience conducting Phase I Environmental Site Assessments, Phase II assessment work, and Phase III remediation. Mrs. Lister has conducted environmental site assessments for a number of different project types including pesticide production facilities, shopping centers, gas stations, school sites, mines, large vacant properties, and agricultural sites.

APPENDIX A

DRAWINGS



N

1 INCH : 1,200 FEET

SITE LOCATION MAP
RIVERWEST INVESTMENTS - BARSTOW
LENWOOD ROAD & AGATE ROAD
BARSTOW, SAN BERNARODINO COUNTY, CALIFORNIA

FILE NO. Site Loc Map	DATE DRAWN: 6/01/2022
DRAWN BY: SB	APPROVED BY:
PROJECT NO. H07603	DRAWING NO. 1

MOORE TWINING ASSOCIATES, INC.

LEGEND

SUBJECT PROPERTY BOUNDARY

N

1 INCH : 600 FEET

SITE PLAN RIVERWEST INVESTMENTS - BARSTOW LENWOOD ROAD & AGATE ROAD BARSTOW, SAN BERNARODINO COUNTY, CALIFORNIA	FILE NO. Site Map	DATE DRAWN: 06/01/2022
	DRAWN BY: SB	APPROVED BY:
	PROJECT NO. H07603	DRAWING NO. 2

MOORE TWINING ASSOCIATES, INC.

APPENDIX B

SITE PHOTOGRAPHS

Photo Album

by Sara Bloom

Looking north along the western edge of the subject Property and Lenwood Road

Looking east along the southern edge of the subject Property and adjacent residential development

Looking east across the central portion of the subject Property

Looking north from the eastern portion of the subject Property

Looking south from the southeastern portion of the subject Property

Looking west along the southern edge of the subject Property

Looking north over the south-central portion of the subject Property. Transient camp is in background.

Debris pile along eastern edge of subject Property

More debris (tires) observed on subject Property

APPENDIX C

REGULATORY AGENCY DOCUMENTATION

Sara Bloom

From: Maria Chavez <mchavez@barstowca.org>
Sent: Tuesday, April 19, 2022 9:19 AM
To: Sara Bloom
Subject: RE: Public Records Request

Hello Sara,

The Building Department was unable to process the reference request. All parcels are located outside the City of Barstow jurisdiction and request must be completed through the San Bernardino County.

This completes my response to your Public Records Act request. If you have any questions, please do not hesitate to contact me.

Sincerely,

MARIA

-----Original Message-----
From: Maria Chavez
Sent: Wednesday, April 13, 2022 11:49 AM
To: 'sarab@mooretwining.com' <sarab@mooretwining.com>
Subject: FW: Public Records Request

Hello Sara,

Please see the attached maps requested in your PRR. As soon as I get more information from other departments I will get back to you.

Thank you

-----Original Message-----
From: Kody Tompkins <ktompkins@barstowca.org>
Sent: Wednesday, April 13, 2022 11:34 AM
To: Maria Chavez <mchavez@barstowca.org>; Heather Adams <hadams@barstowca.org>; Nick Dinapoli <ndinapoli@barstowca.org>; Domingo Gonzales <dgonzales@barstowca.org>
Subject: RE: Public Records Request

Good Morning,

With this land being vacant... I don't have much of the information requested. However, here are the plans associated with the sewer system.

Thanks,

Kody Tompkins

-----Original Message-----

From: Maria Chavez <mchavez@barstowca.org>
Sent: Wednesday, April 13, 2022 11:28 AM
To: Heather Adams <hadams@barstowca.org>; Nick Dinapoli <ndinapoli@barstowca.org>; Kody Tompkins <ktompkins@barstowca.org>; Domingo Gonzales <dgonzales@barstowca.org>
Subject: Public Records Request

Good morning,

Please see the attached PRR.

Thank you

-----Original Message-----
From: no-reply_MFP@barstowca.org <no-reply_MFP@barstowca.org>
Sent: Wednesday, April 13, 2022 11:25 AM
To: Maria Chavez <mchavez@barstowca.org>
Subject: Message from KM.CH.RECEPTION

[NOTICE: THIS IS AN EXTERNAL EMAIL]
Do not open any suspicious attachments or links. Do not reply to any requests for sensitive information. If in doubt, call the sender to confirm!

DIST:

PLACE OFFICIAL STAMP AND INITIAL BELOW

CITY OF BARSTOW

OFFICE OF THE CITY CLERK

REQUEST FOR PUBLIC RECORDS

Date requested: 04/13/2022 **Date required:**

PLEASE LIST EACH DOCUMENT, FILE OR RECORD SEPARATELY AND INCLUDE A BRIEF DESCRIPTION

I wish to : (please check)
- ☑ Review
- ☐ Obtain copies of the following public records:

Please see attached letter for a list of records being requested and the associated address(es)/parcel number(s).

I/We, the undersigned, request documents as indicated and agree to pay the City of Barstow for copies at the rate of twenty-five cents per page (ten cents per page for documents requested pursuant to the Political Reform Act) at the time of receipt.

I/We have read the policy on the reverse of this form SB *(please initial)*

Name/Organization: Sara Bloom - Moore Twining Associates, Inc.

Mailing Address: 2527 Fresno St
Fresno, CA 93721

Phone Number (559) 970-6454 **Signature:** Sara Bloom

Fax Number: (559) 268-7126 **Email:** sarab@mooretwining.com

FOR INTERNAL USE ONLY

Reviewed by City Clerk: ☐Approved ☐ Denied	Signature:
Reason, if denied:	

Disposition of Request: Documents/response provided on (date):

By (check one): ☐Mail ☐Pick-up ☐FAX ☐Email ☐Delivered ☐Verbal ☐Phone

Comments:

Date Completed:	**Staff Member(s):**	**Staff Time:**

Office Hours are 7:30 a.m. to 5:30 p.m. Monday thru Thursday and Fridays 7:30 a.m. to 4:30 p.m.
220 E. Mountain View St., Ste. "A" Barstow, CA 92311 ~ (760) 256-3531/ Fax: (760) 256-1750

The California Public Records Act (Government Code Section 6250 et seq.) provides California citizens with important rights to obtain access to records held by public agencies in the State. In recent years the City of Barstow has experienced a substantial growth in the volume of requests for public records and the staff time required to respond to such requests, particularly with respect to requests for documents relevant to disputes between private parties. The purpose of this policy is to clarify for the public, attorneys, insurance adjusters and private investigators, the process by which the City will respond to requests for records under the Public Records Act.

1. All requests for public records shall be in writing on a form approved by the City Council, unless the request is to review an agenda or agenda reports of the City or a City Commission or committee, the Municipal Code, the General Plan or the Uniform Building Codes, which are available in the City Clerk's Office.

2. The City Clerk will respond to all requests as soon as possible, but not later than the ten-day period, or extensions thereof, as provided by Government Code Section 6253.

    a. The City Clerk shall review the request and determine whether the request seeks identifiable records and, if not, the City Clerk shall assist the person making the request to identify records and information that are responsive to the request or to the purpose of the request, if stated.

    b. The City Clerk shall request all City Departments which may have the records requested to search their files and report back to the City Clerk on whether the Department has the records and, if so, when the records can be made available to the person seeking them.

    c. The City Clerk shall respond to the person requesting records by advising him or her in writing of the availability of the documents, a description of the information technology and physical location in which the records exist, and whether any of the documents are exempt from disclosure under the provisions of the Public Records Act. To the extent feasible, the City Clerk will provide suggestions for overcoming any practical basis for denying access to the records or information sought in compliance with the Public Records Act.

    d. If a request is made for copies of the records, the City Clerk shall also advise the person requesting copies of the estimated costs of copying the records requested.

    e. The person requesting the copies shall pay the per page charge for copying as set forth by resolution of the City Council for all copies requested. The City Clerk shall not make the requested copies until a deposit in the amount of the estimated costs of copying is received and shall not release the copies until the full cost of copying is paid to the City.

3. In accordance with the Public Records Act, the City will provide only specific identifiable records but will not research City records for particular types of information or analyze information, which may be contained within public records.

4. The City will respond to requests for public records in accordance with the terms of the California Public Records Act as the Act now exists or may hereafter be amended, and nothing in this Policy is intended nor shall it be construed to conflict with the terms of the Public Records Act.

DIST: Domingo
Kody
Code
Building
Planning
Fire Dept

THE CITY OF BARSTOW
CROSSROADS OF OPPORTUNITY

PLACE OFFICIAL STAMP AND INITIAL BELOW

City of Barstow Received APR 13 20 MC

CITY OF BARSTOW
OFFICE OF THE CITY CLERK
REQUEST FOR PUBLIC RECORDS

Date requested: 04/13/2022 **Date required:**

PLEASE LIST EACH DOCUMENT, FILE OR RECORD SEPARATELY AND INCLUDE A BRIEF DESCRIPTION

I wish to : (please check)
- [x] Review
- [ ] Obtain copies of the following public records:

Please see attached letter for a list of records being requested and the associated address(es)/parcel number(s).

I/We, the undersigned, request documents as indicated and agree to pay the City of Barstow for copies at the rate of twenty-five cents per page (ten cents per page for documents requested pursuant to the Political Reform Act) at the time of receipt.

I/We have read the policy on the reverse of this form SB *(please initial)*

Name/Organization: Sara Bloom - Moore Twining Associates, Inc.
Mailing Address: 2527 Fresno St
Fresno, CA 93721

Phone Number (559) 970-6454 **Signature:** Sara Bloom

Fax Number: (559) 268-7126 **Email:** sarab@mooretwining.com

FOR INTERNAL USE ONLY

Reviewed by City Clerk: [x] Approved [ ] Denied Signature:

Reason, if denied:

Disposition of Request: Documents/response provided on (date):
By (check one): [ ] Mail [ ] Pick-up [ ] FAX [ ] Email [ ] Delivered [ ] Verbal [ ] Phone

Comments: See attached

Date Completed: 4/28/22	**Staff Member(s):** A. Heald	**Staff Time:** 2 mins

Office Hours are 7:30 a.m. to 5:30 p.m. Monday thru Thursday and Fridays 7:30 a.m. to 4:30 p.m.
220 E. Mountain View St., Ste. "A" Barstow, CA 92311 ~ (760) 256-3531/ Fax: (760) 256-1750

THE CITY OF BARSTOW
CROSSROADS OF OPPORTUNITY

MEMORANDUM

TO: **City Clerk Office**

FROM: **Ashleigh Heald, Office Assistant**

DATE: **April 28, 2022**

SUBJECT: **Parcels: 049-714-203 ; 049-714-204 ; 049-714-214 ; 049-714-215**

The Building Department was unable to process the referenced request. All parcels are located outside of City of Barstow jurisdiction and must be completed through San Bernardino County.

Should you have any questions, please feel free to contact the Building Department at 760-255-5155. Thank you.

Ashleigh Heald
Office Assistant

Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
5796 Corporate Avenue
Cypress, California 90630

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

April 13, 2022

Sara Bloom
Moore Twining
sarab@mooretwining.com

PR4-041322-06
049-714-203, -204, -214 & -215 & East Lenwood Rd., between Agate Rd., & N orth Camino Del Norte South

Dear Requestor:

On, April 13, 2022, the Department of Toxic Substances Control (DTSC) received your email of April 13, 2022, requesting records under the Public Records Act. After a thorough review of our files, *no site records* were found pertaining to the sites/facilities referenced above.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You will find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me via email at: jone.barrio@dtsc.ca.gov.

Sincerely,
Jone Barrio
Jone Barrio
Regional Records Coordinator

Sara Bloom

From: Yu, John@Waterboards <John.Yu@Waterboards.ca.gov>
Sent: Thursday, April 14, 2022 2:56 PM
To: Sara Bloom
Cc: Pour-ghasemi, Ghasem@Waterboards; Shay, Eric@Waterboards; Soto, Angelica@Waterboards
Subject: RE: PRA220406 - Records Request: River West - Barstow - DUE 4/25/2022

Hello Sara,

My name is John Yu and I am responding on behalf of the Lahontan Water Board for a public records request at the east side of Lenwood Road, between Agate Road and Camino Del Norte in Barstow, CA 92311. There isn't a regulated facility located at the APNs you provided which makes it more likely the Lahontan Water Board does not have much historical documents relating to the area. If you see the image below, there are several inactive and active wells operated by Golden State Water Company northeast (blue dots) and leaking underground storage tank cases (red squares) southeast of the requested site. You can access these on our public database GeoTracker and use the legend to enable filters. I would recommend looking through the well reports and possibly directly contacting the Golden State Water Company for more detailed data and reports. Please let me know if you need any other information. Thank you!

John Yu
Water Resources Control Engineer
Lahontan Water Board
15095 Amargosa Rd., Bldg. 2, Ste 210, Victorville CA 92394
(760) 241-7309 john.yu@waterboards.ca.gov

Water Boards

http://www.waterboards.ca.gov/lahontan

Our Mission – Restore, enhance, and preserve the quality of the Lahontan Region's water resources and drinking water for the protection of the environment, public health, and all beneficial uses, from mountain crests to valley floors.

From: Sara Bloom <SaraB@mooretwining.com>
Sent: Wednesday, April 13, 2022 11:32 AM
To: WB-RB6S-PRA <RB6S-PRA@Waterboards.ca.gov>
Subject: Records Request: River West - Barstow

EXTERNAL:

To Whom it May Concern,
Good morning. Attached is a public records request for a property in Barstow, CA that Moore Twining is conducting a Phase I Environmental Site Assessment (ESA) on.

If you have any questions or concerns regarding this request, please feel free to contact me via phone or email.

Thanks!

Have a great day!

Sara

Sara Bloom
Moore Twining Associates, Inc.
2527 Fresno St.
Fresno, CA 93721
Ph: (559) 268-7021 ext. 279
Fax: (559) 268-7126
sarab@mooretwining.com
www.mooretwining.com

385 N Arrowhead Ave, 2nd Floor, San Bernardino, CA 92415 | Phone: 800.442.2283 • Fax: 909.387.4323
www.SBCounty.gov
www.SBCounty.gov/dph/dehs

SAN BERNARDINO COUNTY

Public Health
Environmental Health Services

REQUEST TO INSPECT/REPRODUCE PUBLIC RECORDS

Return to any of the following offices:
385 N. Arrowhead Ave. 2nd Floor, San Bernardino 92415-0160
15900 Smoke Tree St., Ste. 131, Hesperia 92345
8575 Haven Ave., Ste. 130, Rancho Cucamonga 91730

TO BE COMPLETED BY REQUESTER

INFORMATION FOR RECORDS REQUESTED

Facility Name: (Business or Apartment Complex name) NA			
Location Address: Lenwood Road, south of Agate Rd	**City:** Barstow	**State:** CA	**Zip:** 92311
Case/File Number: (If known) NA	**Inspector:** (If known) NA		

Indicate time frame of information requested: (month/year or date of inspection)

From:	To:	From:	To:	From:	To:

Specific information requested:
(File, inspection report, complaint, etc.)

Please see attached for a description of records being requested and the associated address(es)/parcel number(s).

NOTE: EACH REQUESTER AND/OR FILE MUST HAVE A SEPARATE FORM COMPLETED. FOR A LIST REQUEST, PLEASE CALL (800) 442-2283.

FEES

Copy Fee: $.10 Per Page

Certified Copies: Additional $.22 Per Page

REQUESTER INFORMATION

Requester Name: Sara Bloom - Moore Twining Associates, Inc.
(Include affiliation, i.e. business name, law office, owner, private citizen, employee, etc.)

Requester Address: 2527 Fresno Street	**City:** Fresno	**State:** CA	**Zip:** 93721

E-mail Address: (Preferred method of delivery) sarab@mooretwining.com

Phone Number: (To notify when copies/files are ready) 559-970-6454

OFFICE USE ONLY

PROGRAM	**DATE**
PAID $	**# PGS**
RECEIPT #	**REC'D BY**

385 N. Arrowhead Avenue, 2nd Floor, San Bernardino, CA 92415 | Phone: 800.442.2283 Fax: 909.387.4323
www.SBCounty.gov

SAN BERNARDINO COUNTY

Public Health
Environmental Health Services

Joshua Dugas, MBA, REHS
Director
Jennifer Osorio, REHS
Interim Assistant Director
Michael A. Sequeira, M.D.
Health Officer
Adela Evans, MPH, REHS
Interim Division Chief

April 25, 2022

Sara Bloom
Moore Twining Associates Inc
2527 Fresno Street
Fresno, CA 93721

EHS has completed the research on your records request received on April 13, 2022.
No records were found for Lenwood Road, South of Agate Road, Barstow, CA 92311 (APNs 0497-142-03-0000, 0497-142-04-0000. & 0497-142-14-0000).

If you have any questions or concerns, please contact me at (800) 442-2283.

Sincerely,

Raúl Robles, Office Assistant III
385 North Arrowhead Avenue, 2nd Floor
San Bernardino, CA 92415-0160

RR:rr

BOARD OF SUPERVISORS
Col. Paul Cook (Ret.) First District | Janice Rutherford Second District | Dawn Rowe Vice Chair, Third District | Curt Hagman Chairman, Fourth District | Joe Baca, Jr. Fifth District
Leonard X. Hernandez Chief Executive Officer

EHS 2022-289

385 N Arrowhead Ave, 2nd Floor, San Bernardino, CA 92415 | Phone: 800.442.2283 • Fax: 909.387.4323
www.SBCounty.gov
www.SBCounty.gov/dph/dehs

SAN BERNARDINO COUNTY

Public Health
Environmental Health Services

Received 04/13/2022
No Records Found

REQUEST TO INSPECT/REPRODUCE PUBLIC RECORDS

Return to any of the following offices:
385 N. Arrowhead Ave. 2nd Floor, San Bernardino 92415-0160
15900 Smoke Tree St., Ste. 131, Hesperia 92345
8575 Haven Ave., Ste. 130, Rancho Cucamonga 91730

TO BE COMPLETED BY REQUESTER

INFORMATION FOR RECORDS REQUESTED

Facility Name: (Business or Apartment Complex name) NA

Location Address: Lenwood Road, south of Agate Rd	**City:** Barstow	**State:** CA	**Zip:** 92311
Case/File Number: (If known) NA	**Inspector:** (If known) NA		

Indicate time frame of information requested: (month/year or date of inspection)

From:	To:	From:	To:	From:	To:

Specific information requested:
(File, inspection report, complaint, etc.)

Please see attached for a description of records being requested and the associated address(es)/parcel number(s).

NOTE: EACH REQUESTER AND/OR FILE MUST HAVE A SEPARATE FORM COMPLETED. FOR A LIST REQUEST, PLEASE CALL (800) 442-2283.

FEES

Copy Fee: $.10 Per Page

Certified Copies: Additional $.22 Per Page

REQUESTER INFORMATION

Requester Name: Sara Bloom - Moore Twining Associates, Inc.
(Include affiliation, i.e. business name, law office, owner, private citizen, employee, etc.)

Requester Address: 2527 Fresno Street	**City:** Fresno	**State:** CA	**Zip:** 93721

E-mail Address: (Preferred method of delivery) sarab@mooretwining.com

Phone Number: (To notify when copies/files are ready) 559-970-6454

OFFICE USE ONLY

PROGRAM	**DATE**
PAID $	**# PGS**
RECEIPT #	**REC'D BY**

MOORE TWINING ASSOCIATES, INC.

Public Records Request

April 13, 2022

Requestor Information:

Name: Sara Bloom
Company: Moore Twining Associates, Inc.
Telephone: 559-970-6454
Email: sarab@mooretwining.com

Dear Sir/Ma'am,

Moore Twining Associates, Inc. (MTA) is performing a Phase I Environmental Site Assessment (ESA) on a property in Barstow, CA. We would like to review records dating as far back as 1940 for the following property/properties relating to: hazardous material/waste handling, industrial wastewater disposal/sewerage permitting, code compliance violations and inspections, building, demolition, occupancy, grading and utility permits, underground storage tanks (USTs) and above ground storage tanks (ASTs), pipelines, industrial wastewater sumps, emergency fire/spill response post-incident cleanup permits and/or environmental impacts for the following property/properties:

Facility/Site ID	Facility/Site Name	Parcel Number (APN)	Address	City, State, Zip Code
NA	NA	049-714-203 049-714-204 049-714-214 049-714-214	East side of Lenwood Road, between Agate Road (north) and Camino Del Norte (south)	Barstow, CA 92311

APPENDIX D

EDR REPORT

River West - Barstow
LENWOOD RD
Barstow, CA 92311

Inquiry Number: 06935355.2r
April 11, 2022

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
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Orphan Summary	36
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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-12
Physical Setting Source Map Findings	A-14
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

LENWOOD RD
BARSTOW, CA 92311

COORDINATES

Latitude (North):	34.8869600 - 34ˆ 53' 13.05''
Longitude (West):	117.1156010 - 117ˆ 6' 56.16''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	489436.5
UTM Y (Meters):	3860316.2
Elevation:	2215 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	12015955 BARSTOW, CA
Version Date:	2018
Southeast Map:	12015957 BARSTOW SE, CA
Version Date:	2018
Southwest Map:	12015985 HODGE, CA
Version Date:	2018
Northwest Map:	12015981 HINKLEY, CA
Version Date:	2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140601
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
LENWOOD RD
BARSTOW, CA 92311

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	VALMONT NEWMARK	3970 LENWOOD RD	RCRA NonGen / NLR	Higher	267, 0.051, SSW
A2	NEWMARK INTL INC	3970 LENWOOD RD	CERS HAZ WASTE, NPDES, San Bern. Co. Permit,...	Higher	267, 0.051, SSW
3	RODEL LAPITAN	24983 PASEO ROBLES	RCRA NonGen / NLR	Higher	889, 0.168, South
B4	DESERT DISTRIBUTING	34337 LENWOOD ROAD	HIST UST	Lower	978, 0.185, NNW
B5	DESERT DISTRIBUTING	34337 LENWOOD RD	SWEEPS UST, CA FID UST	Lower	978, 0.185, NNW
B6	WARREN OPIE WALLIS I	34474 LENWOOD RD	SWEEPS UST, CA FID UST	Lower	1100, 0.208, NNW
B7	WARREN OPIE WALLIS I	34474 LENWOOD RD	HIST UST	Lower	1100, 0.208, NNW
8	SELINA MAYA	35233 MAPLE STREET	RCRA NonGen / NLR	Lower	1261, 0.239, NE
9	WHITING BROTHERS	24645 MAIN	LUST, HIST CORTESE	Higher	2114, 0.400, SSE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---- National Priority List
Proposed NPL ---- Proposed National Priority List Sites
NPL LIENS ---- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---- Federal Facility Site Information listing
SEMS ---- Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---- Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---- RCRA - Large Quantity Generators
RCRA-SQG ---- RCRA - Small Quantity Generators
RCRA-VSQG ---- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---- Land Use Control Information System

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROLS ..... Institutional Controls Sites List

Federal ERNS list

ERNS ..... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE ..... State Response Sites

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR ..... EnviroStor Database

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF ..... Solid Waste Information System

Lists of state and tribal leaking storage tanks

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ..... Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST ..... Underground Storage Tank Listing
UST ..... Active UST Facilities
AST ..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST ..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

VCP ..... Voluntary Cleanup Program Properties
INDIAN VCP ..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

BROWNFIELDS ..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ..... Waste Management Unit Database
SWRCY ..... Recycler Database
HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations

IHS OPEN DUMPS - Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL - Delisted National Clandestine Laboratory Register
HIST Cal-Sites - Historical Calsites Database
SCH - School Property Evaluation Program
CDL - Clandestine Drug Labs
Toxic Pits - Toxic Pits Cleanup Act Sites
US CDL - National Clandestine Laboratory Register
AQUEOUS FOAM - Former Fire Training Facility Assessments Listing
PFAS - PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

CERS TANKS - California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS - Environmental Liens Listing
LIENS 2 - CERCLA Lien Information
DEED - Deed Restriction Listing

Records of Emergency Release Reports

HMIRS - Hazardous Materials Information Reporting System
CHMIRS - California Hazardous Material Incident Report System
LDS - Land Disposal Sites Listing
MCS - Military Cleanup Sites Listing
SPILLS 90 - SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS - Formerly Used Defense Sites
DOD - Department of Defense Sites
SCRD DRYCLEANERS - State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR - Financial Assurance Information
EPA WATCH LIST - EPA WATCH LIST
2020 COR ACTION - 2020 Corrective Action Program List
TSCA - Toxic Substances Control Act
TRIS - Toxic Chemical Release Inventory System
SSTS - Section 7 Tracking Systems
ROD - Records Of Decision
RMP - Risk Management Plans
RAATS - RCRA Administrative Action Tracking System
PRP - Potentially Responsible Parties
PADS - PCB Activity Database System
ICIS - Integrated Compliance Information System
FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS - Material Licensing Tracking System
COAL ASH DOE - Steam-Electric Plant Operation Data
COAL ASH EPA - Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER - PCB Transformer Registration Database
RADINFO - Radiation Information Database

HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
CIWQS	California Integrated Water Quality System
CERS	CERS
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
HWTS	Hazardous Waste Tracking System
MINES MRDS	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR Hist Auto---------- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WHITING BROTHERS	***24645 MAIN***	***SSE 1/4 - 1/2 (0.400 mi.)***	***9***	***34***
Database: LUST REG 6V, Date of Government Version: 06/07/2005				
Status: Remedial action (cleanup) Underway				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 10/18/2021 has revealed that there

is 1 CERS HAZ WASTE site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEWMARK INTL INC	***3970 LENWOOD RD***	***SSW 0 - 1/8 (0.051 mi.)***	***A2***	***11***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
DESERT DISTRIBUTING Status: A Tank Status: A Comp Number: 5875	***34337 LENWOOD RD***	***NNW 1/8 - 1/4 (0.185 mi.)***	***B5***	***28***
WARREN OPIE WALLIS I Status: A Tank Status: A Comp Number: 48438	***34474 LENWOOD RD***	***NNW 1/8 - 1/4 (0.208 mi.)***	***B6***	***30***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
DESERT DISTRIBUTING Facility Id: 00000005875	34337 LENWOOD ROAD	NNW 1/8 - 1/4 (0.185 mi.)	B4	27
WARREN OPIE WALLIS I Facility Id: 00000048438	34474 LENWOOD RD	NNW 1/8 - 1/4 (0.208 mi.)	B7	31

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
DESERT DISTRIBUTING Facility Id: 36008353 Status: A	***34337 LENWOOD RD***	***NNW 1/8 - 1/4 (0.185 mi.)***	***B5***	***28***
WARREN OPIE WALLIS I	***34474 LENWOOD RD***	***NNW 1/8 - 1/4 (0.208 mi.)***	***B6***	***30***

Facility Id: 36003987
Status: A

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/28/2022 has revealed that there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VALMONT NEWMARK EPA ID:: CAL000295591	3970 LENWOOD RD	SSW 0 - 1/8 (0.051 mi.)	A1	9
RODEL LAPITAN EPA ID:: CAC002996574	24983 PASEO ROBLES	S 1/8 - 1/4 (0.168 mi.)	3	25

Lower Elevation	Address	Direction / Distance	Map ID	Page
SELINA MAYA	35233 MAPLE STREET	NE 1/8 - 1/4 (0.239 mi.)	8	32

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WHITING BROTHERS Reg Id: 6B3600033T	***24645 MAIN***	***SSE 1/4 - 1/2 (0.400 mi.)***	***9***	***34***

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 12/01/2021 has revealed that there is 1 San Bern. Co. Permit site within approximately 0.25 miles of the target property.

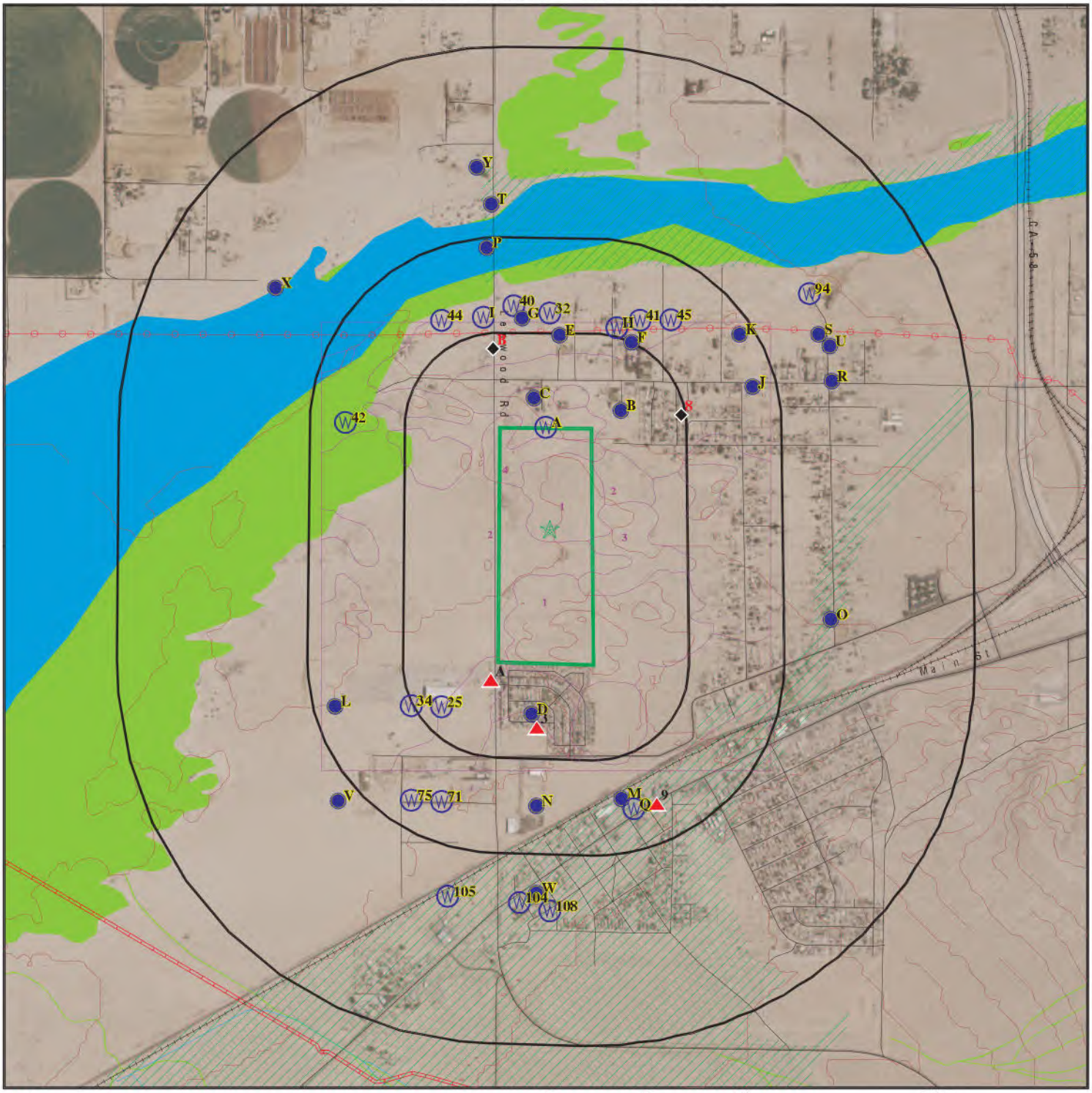
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEWMARK INTL INC Facility Status: ACTIVE Facility Id: FA0013355	***3970 LENWOOD RD***	***SSW 0 - 1/8 (0.051 mi.)***	***A2***	***11***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
LENWOOD-HINKLEY LANDFILL FACILITY	SWF/LF

OVERVIEW MAP - 06935355.2R



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	River West - Barstow	CLIENT:	MooreTwining Associates, Inc.
ADDRESS:	LENWOOD RD Barstow CA 92311	CONTACT:	Sara Bloom
		INQUIRY #:	06935355.2r
LAT/LONG:	34.88696 / 117.115601	DATE:	April 11, 2022 3:17 pm

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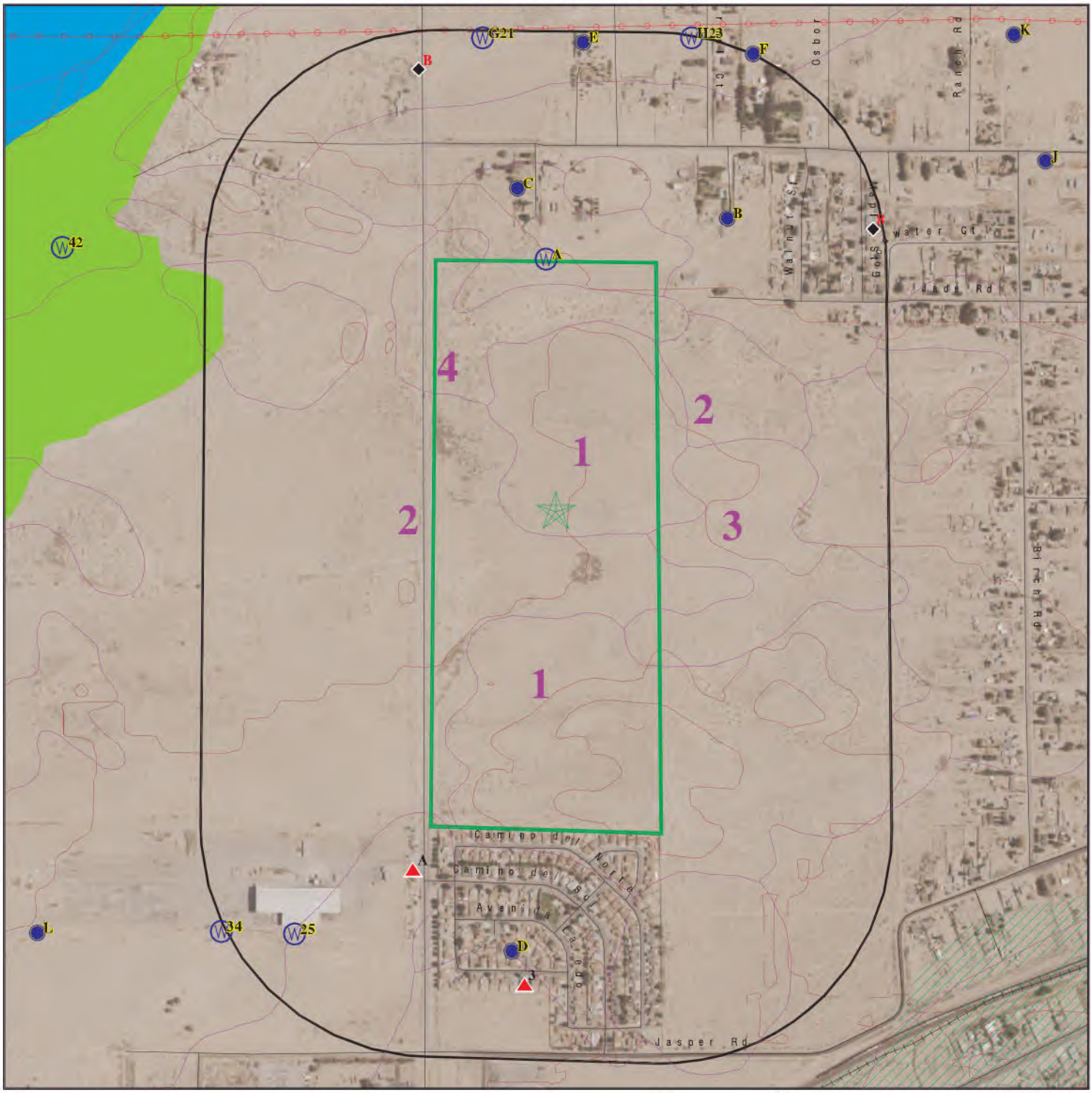
DETAIL MAP - 06935355.2R



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	River West - Barstow	CLIENT:	MooreTwining Associates, Inc.
ADDRESS:	LENWOOD RD Barstow CA 92311	CONTACT:	Sara Bloom
		INQUIRY #:	06935355.2r
LAT/LONG:	34.88696 / 117.115601	DATE:	April 11, 2022 3:20 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		1	0	NR	NR	NR	1
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	2	NR	NR	NR	2
HIST UST	0.250		0	2	NR	NR	NR	2
CA FID UST	0.250		0	2	NR	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	2	NR	NR	NR	3
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	1	NR	NR	1
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
San Bern. Co. Permit	0.250		1	0	NR	NR	NR	1
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	3	8	2	0	0	13

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **VALMONT NEWMARK** **RCRA NonGen / NLR** **1026054297**
SSW **3970 LENWOOD RD** **CAL000295591**
< 1/8 **BARSTOW, CA 92311**
0.051 mi.
267 ft. **Site 1 of 2 in cluster A**

Relative: **Higher**

Actual: **2227 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20191210
Handler Name:	VALMONT NEWMARK	
Handler Address:		3970 LENWOOD RD
Handler City,State,Zip:		BARSTOW, CA 92311
EPA ID:		CAL000295591
Contact Name:		JORGE NENTE
Contact Address:		LENWOOD RD
Contact City,State,Zip:		BARSTOW, CA 92311
Contact Telephone:		760-253-3070
Contact Fax:		760-253-3059
Contact Email:		JORGE.NENTE@VALMONT.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		LENWOOD RD
Mailing City,State,Zip:		BARSTOW, CA 92311
Owner Name:		VALMONT NEWMARK
Owner Type:		Private
Operator Name:		VALMONT NEWMARK
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

VALMONT NEWMARK (Continued) **1026054297**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20191223
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	VALMONT NEWMARK
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2 PERIMETER PARK S STE 475 W
Owner/Operator City,State,Zip:	BIRMINGHAM, AL 35243
Owner/Operator Telephone:	205-967-7200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	VALMONT NEWMARK
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2 PERIMETER PARK S STE 475 W
Owner/Operator City,State,Zip:	BIRMINGHAM, AL 35243
Owner/Operator Telephone:	205-967-7200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

VALMONT NEWMARK (Continued) **1026054297**

Historic Generators:
Receive Date: 20191210
Handler Name: VALMONT NEWMARK
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 332312
NAICS Description: FABRICATED STRUCTURAL METAL MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A2 **NEWMARK INTL INC** **CERS HAZ WASTE** **S108224209**
SSW **3970 LENWOOD RD** **NPDES** **N/A**
< 1/8 **BARSTOW, CA 92311** **San Bern. Co. Permit**
0.051 mi. **CIWQS**
267 ft. **Site 2 of 2 in cluster A** **CERS**
HWTS

Relative:
Higher

Actual:
2227 ft.

CERS HAZ WASTE:
Name: VALMONT NEWMARK
Address: 3970 LENWOOD RD
City,State,Zip: BARSTOW, CA 92311
Site ID: 165794
CERS ID: 10311532
CERS Description: Hazardous Waste Generator

NPDES:
Name: NEWMARK INTL INC
Address: 3970 LENWOOD RD
City,State,Zip: BARSTOW, CA 92311
Facility Status: Active
NPDES Number: CAS000001
Region: 6B
Agency Number: 0
Regulatory Measure ID: 204816
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 6B36I018607
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported

NEWMARK INTL INC (Continued) **S108224209**

Effective Date Of Regulatory Measure:	01/28/2004
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	3970 Lenwood Rd
Discharge Name:	Newmark Intl Inc
Discharge City:	Barstow
Discharge State:	California
Discharge Zip:	92311
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	6B
Regulatory Measure ID:	204816
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	6B36I018607
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	01/28/2004
Status:	Active
Status Date:	01/28/2004
Place Size:	40
Place Size Unit:	Acres
Contact:	David Hallan
Contact Title:	General Manager
Contact Phone:	7602533070
Contact Phone Ext:	Not reported
Contact Email:	dave.hallan@valmont.com
Operator Name:	Newmark Intl Inc
Operator Address:	3970 Lenwood Rd
Operator City:	Barstow
Operator State:	California
Operator Zip:	92311
Operator Contact:	David Hallan
Operator Contact Title:	Not reported
Operator Contact Phone:	760-253-3070
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	dave.hallan@valmont.com
Operator Type:	Private Business

NEWMARK INTL INC (Continued) **S108224209**

Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	760-253-3070
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Mojave River
Certifier:	Jorge Nente
Certifier Title:	General Manager
Certification Date:	11-JUL-17
Primary Sic:	3272-Concrete Products, Except Block and Brick
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	6B
Regulatory Measure ID:	204816
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	6B36I018607
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/28/2004
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Newmark Intl Inc
Discharge Address:	3970 Lenwood Rd
Discharge City:	Barstow
Discharge State:	California
Discharge Zip:	92311
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported

NEWMARK INTL INC (Continued) **S108224209**

Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	NEWMARK INTL INC
Address:	3970 LENWOOD RD

NEWMARK INTL INC (Continued) **S108224209**

City,State,Zip:	BARSTOW, CA 92311
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	6B36I018607
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	01/28/2004
Operator Name:	Newmark Intl Inc
Operator Address:	3970 Lenwood Rd
Operator City:	Barstow
Operator State:	California
Operator Zip:	92311

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	6B
Regulatory Measure ID:	204816
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	6B36I018607
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	01/28/2004
Status:	Active
Status Date:	01/28/2004
Place Size:	40
Place Size Unit:	Acres
Contact:	David Hallan
Contact Title:	General Manager
Contact Phone:	7602533070
Contact Phone Ext:	Not reported

NEWMARK INTL INC (Continued) **S108224209**

Contact Email:	dave.hallan@valmont.com
Operator Name:	Newmark Intl Inc
Operator Address:	3970 Lenwood Rd
Operator City:	Barstow
Operator State:	California
Operator Zip:	92311
Operator Contact:	David Hallan
Operator Contact Title:	Not reported
Operator Contact Phone:	760-253-3070
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	dave.hallan@valmont.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	760-253-3070
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Mojave River
Certifier:	Jorge Nente
Certifier Title:	General Manager
Certification Date:	11-JUL-17
Primary Sic:	3272-Concrete Products, Except Block and Brick
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	6B
Regulatory Measure ID:	204816
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	6B36I018607
Program Type:	Industrial

NEWMARK INTL INC (Continued) **S108224209**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/28/2004
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Newmark Intl Inc
Discharge Address:	3970 Lenwood Rd
Discharge City:	Barstow
Discharge State:	California
Discharge Zip:	92311
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported

NEWMARK INTL INC (Continued) **S108224209**

Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	VALMONT NEWMARK
Address:	3970 LENWOOD RD
City,State,Zip:	BARSTOW, CA 92311
Region:	SAN BERNARDINO
Facility ID:	FA0013355
Owner:	VALMONT NEWMARK
Permit Number:	PT0023633
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	09/30/2022

Name:	VALMONT NEWMARK
Address:	3970 LENWOOD RD
City,State,Zip:	BARSTOW, CA 92311
Region:	SAN BERNARDINO
Facility ID:	FA0013355
Owner:	VALMONT NEWMARK
Permit Number:	PT0023632
Permit Category:	HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	09/30/2022

CIWQS:

Name:	NEWMARK INTL INC
Address:	3970 LENWOOD RD
City,State,Zip:	BARSTOW, CA 92311
Agency:	Newmark Intl Inc
Agency Address:	3970 Lenwood Rd, Barstow, CA 92311
Place/Project Type:	Industrial - Concrete Products, Except Block and Brick
SIC/NAICS:	3272
Region:	6V
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	6B36I018607
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	01/28/2004
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported

NEWMARK INTL INC (Continued) **S108224209**

Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 34.85893
Longitude: -117.09236

CERS:
Name: NEWMARK INTL INC
Address: 3970 LENWOOD RD
City,State,Zip: BARSTOW, CA 92311
Site ID: 537875
CERS ID: 245137
CERS Description: Industrial Facility Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: Newmark Intl Inc
Entity Title: Operator
Affiliation Address: 3970 Lenwood Rd
Affiliation City: Barstow
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92311
Affiliation Phone: ,

Name: VALMONT NEWMARK
Address: 3970 LENWOOD RD
City,State,Zip: BARSTOW, CA 92311
Site ID: 165794
CERS ID: 10311532
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 165794
Site Name: VALMONT NEWMARK
Violation Date: 08-26-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 09/08/2016. The site map submitted on CERS does not have adjacent roads noted.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 165794
Site Name: VALMONT NEWMARK
Violation Date: 08-21-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 08/21/2013. Failure to manage used oil lawfully (CHSC 25250.4) corrected on site- operator properly labeled the 55-gallon drum of used oil
Violation Division: San Bernardino County Fire Department
Violation Program: HW

NEWMARK INTL INC (Continued) **S108224209**

Violation Source: CERS,

Site ID: 165794
Site Name: VALMONT NEWMARK
Violation Date: 08-21-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 08/21/2013. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) corrected on site- operator properly labeled the 55-gallon drum of used oil
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 165794
Site Name: VALMONT NEWMARK
Violation Date: 12-06-2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 12/06/2019. OBSERVATION: At the time of the inspection, the Federal Hazard Categories were not updated on the current inventory submittal via CERS from 2/26/2019. CORRECTED ON SITE: Operator updated the Federal Hazard Categories on the inventory via CERS during the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 165794
Site Name: VALMONT NEWMARK
Violation Date: 12-06-2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 12/06/2019. OBSERVATION: At the time of the inspection, observed (1) 5 gallon container of used oil without a hazardous waste label. CORRECTED ON SITE: Operator corrected the violation by adding a hazardous waste label during the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 165794
Site Name: VALMONT NEWMARK
Violation Date: 12-06-2019
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any

NEWMARK INTL INC (Continued) **S108224209**

hazardous waste.
Violation Notes: Returned to compliance on 12/11/2019. OBSERVATION: At the time of the inspection, EPA ID # CAL000295591 was inactive. CORRECTIVE ACTION: Complete the EPA ID# application, form 1358, and send to the Department of Toxic Substances Control (DTSC). Submit a signed statement indicating the form was submit.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-26-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-06-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-26-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-06-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: valmont newmark-insp
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

NEWMARK INTL INC (Continued) **S108224209**

Eval Date: 08-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: valmont newmark-insp
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 165794
Site Name: VALMONT NEWMARK
Site Address: 3970 LENWOOD RD
Site City: BARSTOW
Site Zip: 92311
Enf Action Date: 08-21-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 165794
Site Name: VALMONT NEWMARK
Site Address: 3970 LENWOOD RD
Site City: BARSTOW
Site Zip: 92311
Enf Action Date: 08-26-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 165794
Facility Name: VALMONT NEWMARK
Env Int Type Code: HWG
Program ID: 10311532
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 34.881060
Longitude: -117.120330

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Jorge Nente
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

NEWMARK INTL INC (Continued) **S108224209**

Affiliation Type Desc:	Legal Owner
Entity Name:	Valmont Newmark
Entity Title:	Not reported
Affiliation Address:	TWO PERIMETER PARK SOUTH STE 475 WEST
Affiliation City:	BIRMINGHAM
Affiliation State:	AL
Affiliation Country:	United States
Affiliation Zip:	35243
Affiliation Phone:	(205) 967-7200,

Affiliation Type Desc:	Parent Corporation
Entity Name:	Valmont Newmark
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Jorge Nente
Entity Title:	Not reported
Affiliation Address:	3970 LENWOOD RD
Affiliation City:	BARSTOW
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92311
Affiliation Phone:	,

Affiliation Type Desc:	Operator
Entity Name:	Valmont Newmark
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(760) 253-3070,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	3970 LENWOOD RD
Affiliation City:	BARSTOW
Affiliation State:	CA
Affiliation Country:	Not reported

NEWMARK INTL INC (Continued) **S108224209**

Affiliation Zip: 92311
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Jorge Nente
Entity Title: Operations Support Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

HWTS:
Name: VALMONT NEWMARK
Address: 3970 LENWOOD RD
Address 2: Not reported
City,State,Zip: BARSTOW, CA 923119408
EPA ID: CAL000295591
Inactive Date: Not reported
Create Date: 06/23/2005
Last Act Date: 07/29/2020
Mailing Name: Not reported
Mailing Address: 3970 LENWOOD RD
Mailing Address 2: Not reported
Mailing City,State,Zip: BARSTOW, CA 923119408
Owner Name: VALMONT NEWMARK
Owner Address: 28800 IDA STREET
Owner Address 2: Not reported
Owner City,State,Zip: VALLEY, NE 680640000
Contact Name: JORGE NENTE
Contact Address: 3970 LENWOOD RD
Contact Address 2: Not reported
City,State,Zip: BARSTOW, CA 92311

NAICS:
EPA ID: CAL000295591
Create Date: 2005-06-23 11:53:59.210
NAICS Code: 327999
NAICS Description: All Other Miscellaneous Nonmetallic Mineral Product Manufacturing
Issued EPA ID Date: 2005-06-23 11:53:59.14700
Inactive Date: Not reported
Facility Name: VALMONT NEWMARK
Facility Address: 3970 LENWOOD RD
Facility Address 2: Not reported
Facility City: BARSTOW
Facility County: Not reported
Facility State: CA
Facility Zip: 923119408

EPA ID: CAL000295591
Create Date: 2019-12-23 10:47:08.460
NAICS Code: 332312
NAICS Description: Fabricated Structural Metal Manufacturing
Issued EPA ID Date: 2005-06-23 11:53:59.14700
Inactive Date: Not reported

NEWMARK INTL INC (Continued) **S108224209**

Facility Name:	VALMONT NEWMARK
Facility Address:	3970 LENWOOD RD
Facility Address 2:	Not reported
Facility City:	BARSTOW
Facility County:	Not reported
Facility State:	CA
Facility Zip:	923119408

---

3 **RODEL LAPITAN** **RCRA NonGen / NLR** **1024776637**
South **24983 PASEO ROBLES** **CAC002996574**
1/8-1/4 **BARSTOW, CA 92311**
0.168 mi.
889 ft.

Relative: **Higher**

Actual: **2233 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20190115
Handler Name:	RODEL LAPITAN	
Handler Address:		24983 PASEO ROBLES
Handler City,State,Zip:		BARSTOW, CA 92311
EPA ID:		CAC002996574
Contact Name:		RODEL LAPITAN
Contact Address:		24983 PASEO ROBLES
Contact City,State,Zip:		BARSTOW, CA 92311
Contact Telephone:		760-894-5942
Contact Fax:		Not reported
Contact Email:		BRYAN@ALLAMERICANAGI.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		24983 PASEO ROBLES
Mailing City,State,Zip:		BARSTOW, CA 92311
Owner Name:		RODEL LAPITAN
Owner Type:		Other
Operator Name:		RODEL LAPITAN
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported

RODEL LAPITAN (Continued) **1024776637**

Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20190222
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	RODEL LAPITAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	24983 PASEO ROBLES
Owner/Operator City,State,Zip:	BARSTOW, CA 92311
Owner/Operator Telephone:	760-894-5942
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	RODEL LAPITAN

RODEL LAPITAN (Continued) **1024776637**

Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	24983 PASEO ROBLES
Owner/Operator City,State,Zip:	BARSTOW, CA 92311
Owner/Operator Telephone:	760-894-5942
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20190115
Handler Name: RODEL LAPITAN	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

B4 **DESERT DISTRIBUTING COMPANY** **HIST UST** **U001574472**
NNW **34337 LENWOOD ROAD** **N/A**
1/8-1/4 **LENWOOD, CA 92311**
0.185 mi.
978 ft. **Site 1 of 4 in cluster B**

Relative:
Lower

Actual:
2191 ft.

HIST UST:

Name:	DESERT DISTRIBUTING COMPANY
Address:	34337 LENWOOD ROAD
City,State,Zip:	LENWOOD, CA 92311
File Number:	00029DA2
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029DA2.pdf
Region:	STATE
Facility ID:	00000005875
Facility Type:	Other
Other Type:	BEER WHOLESALER
Contact Name:	LAWRENCE J. MUNSCHY/PRESIDENT
Telephone:	6192532411
Owner Name:	DESERT DISTRIBUTING COMPANY, C
Owner Address:	34337 LENWOOD ROAD
Owner City,St,Zip:	LENWOOD, CA 92311

DESERT DISTRIBUTING COMPANY (Continued) **U001574472**

Total Tanks:	0003
Tank Num:	001
Container Num:	B-02
Year Installed:	1983
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	B-003
Year Installed:	1983
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	B-01
Year Installed:	1983
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

B5 **DESERT DISTRIBUTING COMPANY** **SWEEPS UST** **S101629408**
NNW **34337 LENWOOD RD** **CA FID UST** **N/A**
1/8-1/4 **LENWOOD, CA 92311**
0.185 mi.
978 ft. **Site 2 of 4 in cluster B**

Relative: **Lower**

Actual: **2191 ft.**

SWEEPS UST:

Name:	DESERT DISTRIBUTING COMPANY
Address:	34337 LENWOOD RD
City:	LENWOOD
Status:	Active
Comp Number:	5875
Number:	9
Board Of Equalization:	44-005713
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	02-29-88
Owner Tank Id:	B-02
SWRCB Tank Id:	36-000-005875-000001
Tank Status:	A
Capacity:	5000
Active Date:	07-07-88
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	3

DESERT DISTRIBUTING COMPANY (Continued) **S101629408**

Name: DESERT DISTRIBUTING COMPANY
Address: 34337 LENWOOD RD
City: LENWOOD
Status: Active
Comp Number: 5875
Number: 9
Board Of Equalization: 44-005713
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: B-003
SWRCB Tank Id: 36-000-005875-000002
Tank Status: A
Capacity: 2000
Active Date: 07-07-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: DESERT DISTRIBUTING COMPANY
Address: 34337 LENWOOD RD
City: LENWOOD
Status: Active
Comp Number: 5875
Number: 9
Board Of Equalization: 44-005713
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: B-01
SWRCB Tank Id: 36-000-005875-000003
Tank Status: A
Capacity: 2000
Active Date: 07-07-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 36008353
Regulated By: UTNKA
Regulated ID: 00005875
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: LENWOOD 92311
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported

DESERT DISTRIBUTING COMPANY (Continued) **S101629408**

Status: Active

B6 **WARREN OPIE WALLIS INC.** **SWEEPS UST** **S101619225**
NNW **34474 LENWOOD RD** **CA FID UST** **N/A**
1/8-1/4 **BARSTOW, CA 92311**
0.208 mi.
1100 ft. **Site 3 of 4 in cluster B**

Relative:
Lower

Actual:
2191 ft.

SWEEPS UST:

Name:	WARREN OPIE WALLIS INC.
Address:	34474 LENWOOD RD
City:	BARSTOW
Status:	Active
Comp Number:	48438
Number:	9
Board Of Equalization:	44-021100
Referral Date:	06-29-88
Action Date:	06-29-88
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-048438-000001
Tank Status:	A
Capacity:	1000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	2

Name:	WARREN OPIE WALLIS INC.
Address:	34474 LENWOOD RD
City:	BARSTOW
Status:	Active
Comp Number:	48438
Number:	9
Board Of Equalization:	44-021100
Referral Date:	06-29-88
Action Date:	06-29-88
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	36-000-048438-000002
Tank Status:	A
Capacity:	1000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	36003987
Regulated By:	UTNKA
Regulated ID:	00048438
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported

WARREN OPIE WALLIS INC. (Continued) **S101619225**

Mailing Address:	34474 LENWOOD RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BARSTOW 92311
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

B7 **WARREN OPIE WALLIS INC** **HIST UST** **U001574518**
NNW **34474 LENWOOD RD** **N/A**
1/8-1/4 **BARSTOW, CA 92311**
0.208 mi.
1100 ft. **Site 4 of 4 in cluster B**

Relative: HIST UST:
Lower

Actual:
2191 ft.

Name:	WARREN OPIE WALLIS INC
Address:	34474 LENWOOD RD
City,State,Zip:	BARSTOW, CA 92311
File Number:	0002AA33
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002AA33.pdf
Region:	STATE
Facility ID:	00000048438
Facility Type:	Other
Other Type:	CONTRACTORS YARD
Contact Name:	WARREN WALLIS
Telephone:	6192532918
Owner Name:	WARREN OPIE WALLIS INC.
Owner Address:	34474 LENWOOD RD.
Owner City,St,Zip:	BARSTOW, CA 92311
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1976
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	1976
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

8
NE
1/8-1/4
0.239 mi.
1261 ft.

SELINA MAYA
35233 MAPLE STREET
BARSTOW, CA 92311

RCRA NonGen / NLR

1026809781
CAC003122173

Relative:
Lower

Actual:
2192 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20210531
Handler Name:	SELINA MAYA	
Handler Address:		35233 MAPLE STREET
Handler City,State,Zip:		BARSTOW, CA 92311
EPA ID:		CAC003122173
Contact Name:		SELINA MAYA
Contact Address:		35233 MAPLE STREET
Contact City,State,Zip:		BARSTOW, CA 92311
Contact Telephone:		750-447-1718
Contact Fax:		Not reported
Contact Email:		MAYASELINA29@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		35233 MAPLE STREET
Mailing City,State,Zip:		BARSTOW, CA 92311
Owner Name:		SELINA MAYA
Owner Type:		Other
Operator Name:		SELINA MAYA
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

SELINA MAYA (Continued) **1026809781**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210601
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SELINA MAYA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	35233 MAPLE STREET
Owner/Operator City,State,Zip:	BARSTOW, CA 92311
Owner/Operator Telephone:	750-447-1718
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SELINA MAYA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	35233 MAPLE STREET
Owner/Operator City,State,Zip:	BARSTOW, CA 92311
Owner/Operator Telephone:	750-447-1718
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SELINA MAYA (Continued) **1026809781**

Historic Generators:
- Receive Date: 20210531
- Handler Name: SELINA MAYA
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: No
- Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

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9 **WHITING BROTHERS** **LUST** **S101301178**
SSE **24645 MAIN** **HIST CORTESE** **N/A**
1/4-1/2 **LENWOOD, CA 42311**
0.400 mi.
2114 ft.

Relative:
Higher

Actual:
2251 ft.

LUST Region 6V:
- Name: WHITING BROTHERS
- Address: 24645 MAIN ST W
- City: LENWOOD
- Region: 6V
- Case Number: 6B3600033T
- Leak Record: 6/9/1987
- Report Date: 2/25/1992
- Reported By Address: Not reported
- Responsible Party: CALIMESA OIL CO
- Operator: Not reported
- Cross Street: Not reported
- Local Agency: 36000L
- Regional Board: 6V
- Chemical: Gasoline
- Case Type: Drinking Water Aquifer affected
- Funding: F
- Enforce Type: SEL
- How Found: Tank Closure
- How Stopped: Not reported
- Cause of Leak: Overfill
- Leak Source: Tank
- Global ID: T0607100647
- Stop Date: 4/27/1987
- Leak Confirm: Not reported

WHITING BROTHERS (Continued) **S101301178**

Submit Workplan:	Not reported
Prelim Assess:	Not reported
Pollution Char:	5/11/1987
Remed Plan:	Not reported
Remed Action:	7/20/1993
Monitoring:	Not reported
Close Date:	Not reported
Discovered:	4/28/1987
Enforce Date:	10/23/1992
Review Date:	6/16/2000
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
MTBE class:	*
Max MTBE Grnd Wtr:	Not reported
Max MTBE Soil:	Not reported
MTBE Counts:	0
MTBE Fuel:	1
MTBE Tested:	NT
Organization Name:	Not reported
Status:	Remedial action (cleanup) Underway
Contact:	Not reported
Interim Action:	Not reported
Pilot Program:	LUST
Lat/Long:	33.9249422 / -118.2015912
Staff Initials:	GDC
Local Agency Staff:	LH6
Lead Agency:	Local Agency
Summary:	CLEAN UP IN PROGRESS. MONITOR SAMPLING RESULTS.
Basin Number:	SAN FERNANDO VALLEY
Beneficial:	Not reported
Priority:	Not reported
UST Cleanup Fund ID:	Not reported
Suspended:	Not reported
Local Case Number:	92047
Amount:	Not reported
Abate Method:	Vapor Extraction
Water System:	Not reported
Well Name:	Not reported
Distance:	3054.24469
Wst Disch Reqrmnt Global ID:	Not reported
Wst Disch Reqrmnt Name:	Not reported

HIST CORTESE:

edr_fname:	WHITING BROTHERS
edr_fadd1:	24645 MAIN
City,State,Zip:	LENWOOD, CA 42311
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	6B3600033T

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HINKLEY	S126984041	LENWOOD-HINKLEY LANDFILL FACILITY	SE1/4, SEC 20 T ,R NEAR LENWOO	92347	SWF/LF

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/01/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 9

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/22/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/14/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/25/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/14/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/25/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/08/2021
Date Data Arrived at EDR: 11/09/2021
Date Made Active in Reports: 01/28/2022
Number of Days to Update: 80

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 03/02/2022
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 02/09/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/14/2022
Number of Days to Update: 80
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/25/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/15/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/14/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 11/23/2021
Number of Days to Update: 12

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/14/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/25/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/12/2022
Number of Days to Update: 85

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Quarterly

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 12/10/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/11/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/12/2022
Number of Days to Update: 85

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/24/2022
Date Data Arrived at EDR: 02/25/2022
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 12

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 78

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 84

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 79

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 10/26/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/13/2021
Date Data Arrived at EDR: 12/17/2021
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/01/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/03/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/18/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/20/2021
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 82

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 22

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/24/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 87

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/04/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/28/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/08/2022
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 70

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 05/03/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/02/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/14/2021
Date Data Arrived at EDR: 12/15/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 85

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/04/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 95

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/11/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/22/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 6
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 78
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/16/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 77
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/29/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 77

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 11/17/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/07/2022
Number of Days to Update: 81

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 84

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 03/03/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/18/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/07/2022
Number of Days to Update: 80

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 80

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 11/18/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/17/2022
Number of Days to Update: 79
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 11/09/2021
Date Made Active in Reports: 01/27/2022
Number of Days to Update: 79
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/17/2022
Number of Days to Update: 79
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 11/29/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/13/2021
Date Data Arrived at EDR: 12/14/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 79
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/09/2022
Next Scheduled EDR Contact: 06/26/2022
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 12/03/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/24/2022
Number of Days to Update: 79

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 79

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 07/13/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 12/28/2021
Date Data Arrived at EDR: 12/28/2021
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 80

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 11/01/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/28/2021
Date Data Arrived at EDR: 12/28/2021
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 80

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/17/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/22/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 85

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 10/01/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 12/01/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 77

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 04/06/2022
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 82

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 82

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 03/24/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/10/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 83

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/11/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 82

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/24/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 03/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/26/2021
Date Data Arrived at EDR: 10/27/2021
Date Made Active in Reports: 01/20/2022
Number of Days to Update: 85

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 10/08/2021
Date Data Arrived at EDR: 11/04/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/08/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/29/2021
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/20/2022
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 10/29/2021
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/02/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 85

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 11/02/2021
Number of Days to Update: 90

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/02/2021
Date Made Active in Reports: 02/17/2022
Number of Days to Update: 77

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 78

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 02/25/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 02/03/2022
Date Data Arrived at EDR: 02/04/2022
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 83

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 79

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/11/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/19/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/07/2022
Number of Days to Update: 77

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/10/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/23/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 04/06/2022
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/27/2021
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 78

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/29/2021
Date Data Arrived at EDR: 10/21/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 84

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/29/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/24/2022
Number of Days to Update: 79

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/27/2021
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 73

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/24/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/26/2021
Date Data Arrived at EDR: 10/27/2021
Date Made Active in Reports: 01/20/2022
Number of Days to Update: 85

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/11/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 81

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/07/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/14/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

RIVER WEST - BARSTOW
LENWOOD RD
BARSTOW, CA 92311

TARGET PROPERTY COORDINATES

Latitude (North):	34.88696 - 34ˆ 53’ 13.06’’
Longitude (West):	117.115601 - 117ˆ 6’ 56.16’’
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	489436.5
UTM Y (Meters):	3860316.2
Elevation:	2215 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12015955 BARSTOW, CA
Version Date:	2018
Southeast Map:	12015957 BARSTOW SE, CA
Version Date:	2018
Southwest Map:	12015985 HODGE, CA
Version Date:	2018
Northwest Map:	12015981 HINKLEY, CA
Version Date:	2018

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

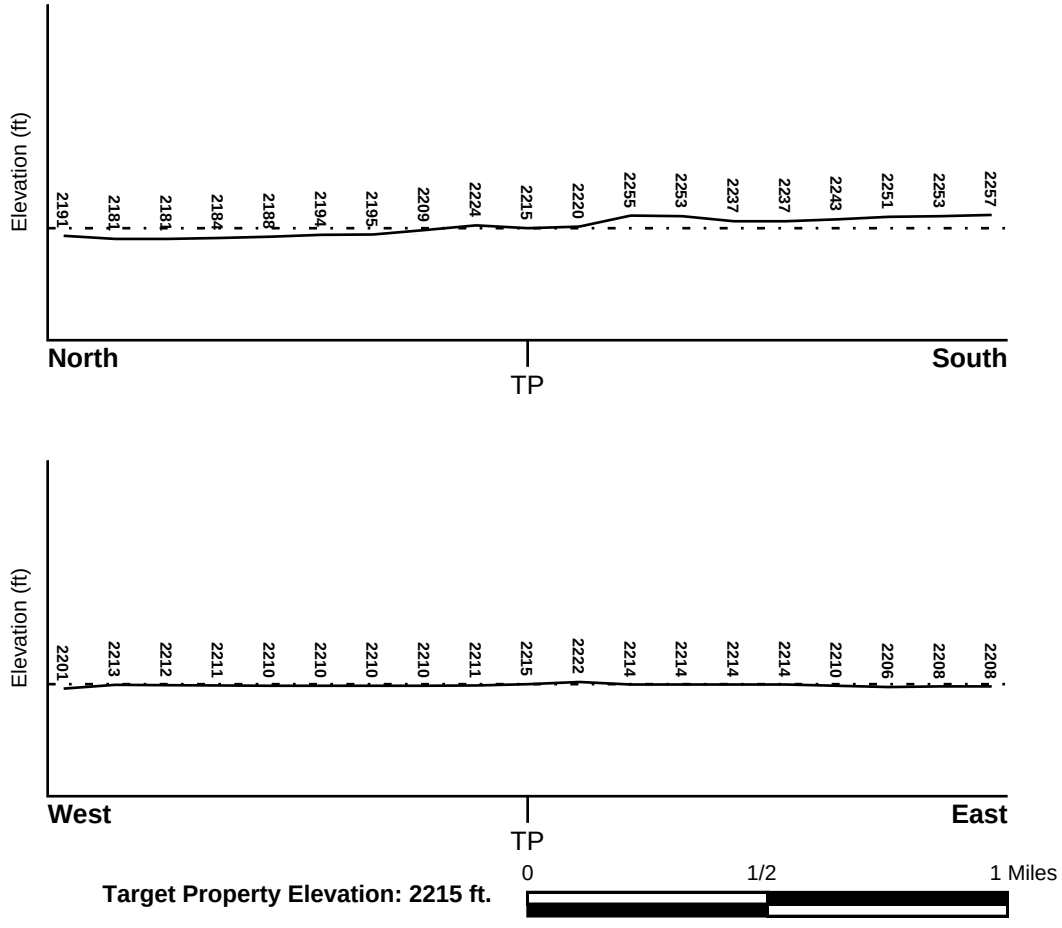
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General North

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06071C3915H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06071C3900F	FEMA Q3 Flood data
06071C3915F	FEMA Q3 Flood data
06071C4507H	FEMA FIRM Flood data
06071C4526H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

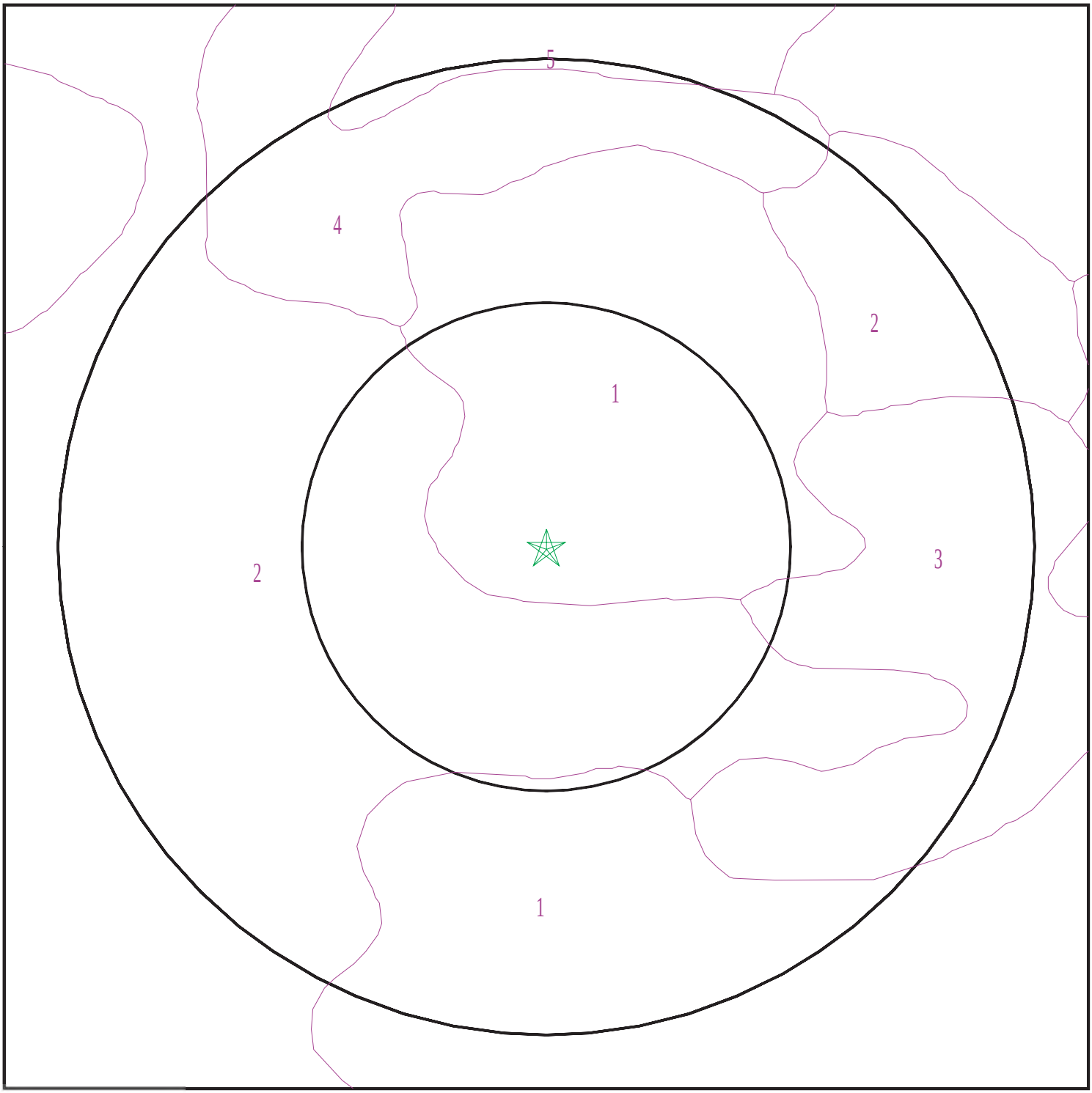
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 06935355.2r



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	River West - Barstow	CLIENT:	MooreTwining Associates, Inc.
ADDRESS:	LENWOOD RD Barstow CA 92311	CONTACT:	Sara Bloom
		INQUIRY #:	06935355.2r
LAT/LONG:	34.88696 / 117.115601	DATE:	April 11, 2022 3:21 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: ROCK OUTCROP

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	59 inches		Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2

Soil Component Name: VICTORVILLE

Soil Surface Texture:
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	16 inches	35 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	35 inches	48 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
4	48 inches	59 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 3

Soil Component Name: Joshua

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	GC-GM	Max: 141 Min: 14	Max: 8.4 Min: 7.4
2	3 inches	20 inches	gravelly sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	GC-GM	Max: 141 Min: 14	Max: 8.4 Min: 7.4

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	20 inches	59 inches	very gravelly coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	GC-GM	Max: 141 Min: 14	Max: 8.4 Min: 7.4

Soil Map ID: 4

Soil Component Name: DUNE LAND

Soil Surface Texture: loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 5

Soil Component Name: Cajon

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4
2	5 inches	25 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4
3	25 inches	59 inches	stratified gravelly sand to sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS40000156662	1/4 - 1/2 Mile North
A2	USGS40000156663	1/4 - 1/2 Mile North
A3	USGS40000156677	1/4 - 1/2 Mile North
C7	USGS40000156684	1/4 - 1/2 Mile North
B9	USGS40000156683	1/4 - 1/2 Mile NE
B12	USGS40000156690	1/4 - 1/2 Mile NNE
D13	USGS40000156325	1/4 - 1/2 Mile South
E16	USGS40000156757	1/4 - 1/2 Mile North
E20	USGS40000156770	1/2 - 1 Mile North
F22	USGS40000156756	1/2 - 1 Mile NNE
E24	USGS40000156778	1/2 - 1 Mile North
25	USGS40000156334	1/2 - 1 Mile SSW
F26	USGS40000156755	1/2 - 1 Mile NNE
E27	USGS40000156801	1/2 - 1 Mile North
F28	USGS40000156769	1/2 - 1 Mile NNE
F30	USGS40000156768	1/2 - 1 Mile NNE
32	USGS40000156809	1/2 - 1 Mile North
G33	USGS40000156810	1/2 - 1 Mile North
40	USGS40000156816	1/2 - 1 Mile North
41	USGS40000156800	1/2 - 1 Mile NNE
42	USGS40000156678	1/2 - 1 Mile WNW
44	USGS40000156802	1/2 - 1 Mile NNW
J46	USGS40000156709	1/2 - 1 Mile NE
K48	USGS40000156767	1/2 - 1 Mile NE
K49	USGS40000156777	1/2 - 1 Mile NE
L50	USGS40000156335	1/2 - 1 Mile SW
N52	USGS40000156237	1/2 - 1 Mile South
N53	USGS40000156238	1/2 - 1 Mile South
M54	USGS40000156245	1/2 - 1 Mile SSE
M56	USGS40000156244	1/2 - 1 Mile SSE
N57	USGS40000156228	1/2 - 1 Mile South
N58	USGS40000156229	1/2 - 1 Mile South
K61	USGS40000156766	1/2 - 1 Mile NE
M63	USGS40000156236	1/2 - 1 Mile SSE
P67	USGS40000156888	1/2 - 1 Mile NNW
P68	USGS40000156889	1/2 - 1 Mile NNW
Q69	USGS40000156226	1/2 - 1 Mile SSE
Q70	USGS40000156227	1/2 - 1 Mile SSE
71	USGS40000156239	1/2 - 1 Mile SSW
O73	USGS40000156456	1/2 - 1 Mile ESE
O74	USGS40000156455	1/2 - 1 Mile ESE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
R78	USGS40000156708	1/2 - 1 Mile ENE
T84	USGS40000156934	1/2 - 1 Mile North
T85	USGS40000156935	1/2 - 1 Mile North
V87	USGS40000156240	1/2 - 1 Mile SW
S88	USGS40000156765	1/2 - 1 Mile NE
U89	USGS40000156754	1/2 - 1 Mile NE
W91	USGS40000156161	1/2 - 1 Mile South
W93	USGS40000156162	1/2 - 1 Mile South
W96	USGS40000156151	1/2 - 1 Mile South
W97	USGS40000156152	1/2 - 1 Mile South
Y100	USGS40000156972	1/2 - 1 Mile North
W101	USGS40000156130	1/2 - 1 Mile South
W102	USGS40000156131	1/2 - 1 Mile South
W103	USGS40000156119	1/2 - 1 Mile South
105	USGS40000156132	1/2 - 1 Mile SSW
X106	USGS40000156848	1/2 - 1 Mile NW
108	USGS40000156110	1/2 - 1 Mile South
W109	USGS40000156111	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

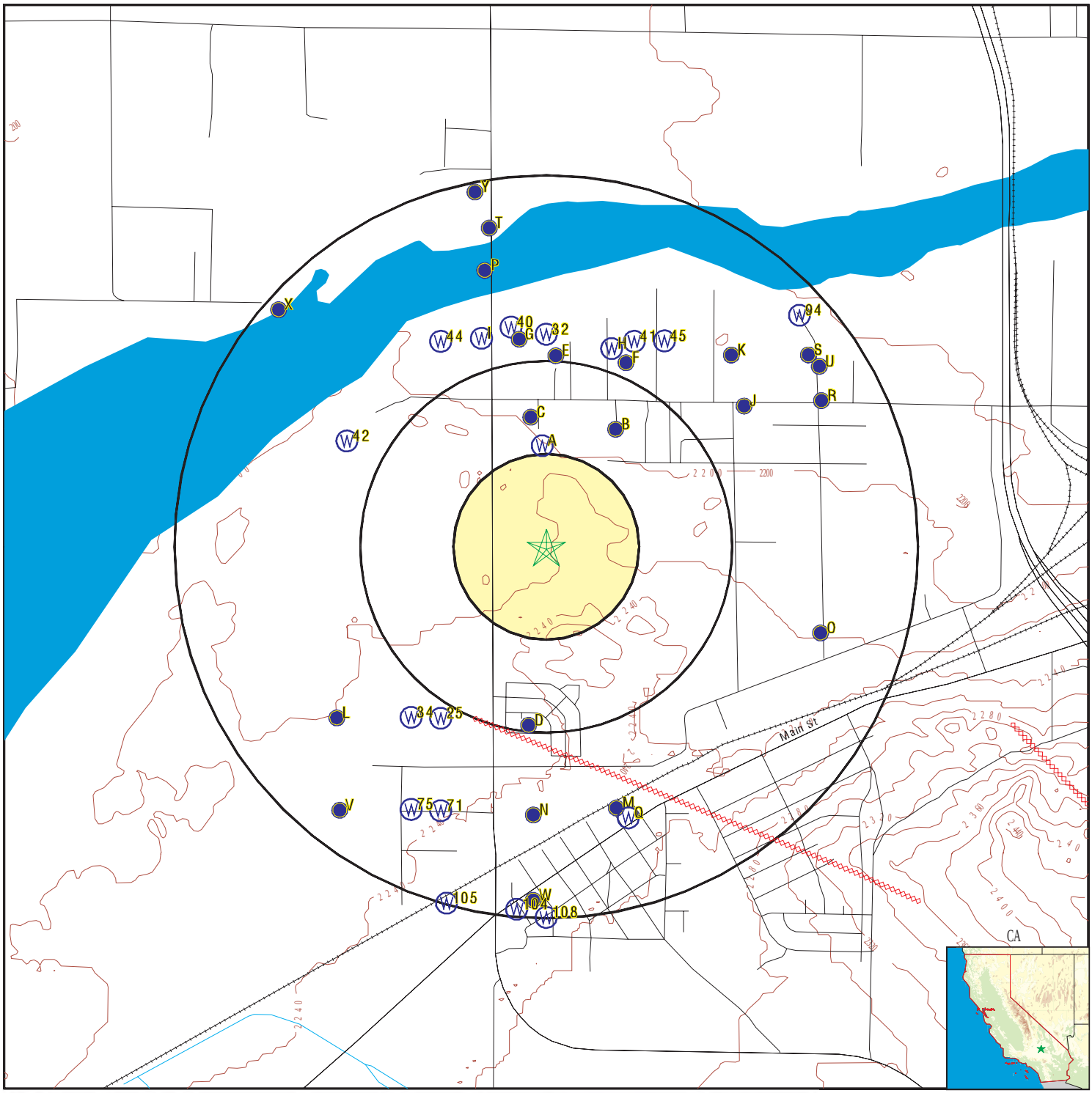
MAP ID	WELL ID	LOCATION FROM TP
B4	CADWR9000014405	1/4 - 1/2 Mile NNE
C5	CAUSGSN00014703	1/4 - 1/2 Mile North
C6	CAUSGS000000790	1/4 - 1/2 Mile North
B8	CADWR9000014412	1/4 - 1/2 Mile NNE
B10	CADWR0000030037	1/4 - 1/2 Mile NNE
B11	CAUSGSN00007351	1/4 - 1/2 Mile NNE
D14	CADWR9000014197	1/4 - 1/2 Mile South
E15	CADWR9000014447	1/4 - 1/2 Mile North
F17	CAUSGSN00001938	1/2 - 1 Mile NNE
E18	CAUSGSN00009800	1/2 - 1 Mile North
E19	CAUSGS000001161	1/2 - 1 Mile North
G21	CADWR9000014452	1/2 - 1 Mile North
H23	CADWR9000014451	1/2 - 1 Mile NNE
G29	CADWR9000014470	1/2 - 1 Mile North
G31	CAUSGSN00004973	1/2 - 1 Mile North
34	CADWR9000014203	1/2 - 1 Mile SW
I35	CADWR0000019280	1/2 - 1 Mile NNW
I36	CADWR0000021256	1/2 - 1 Mile NNW
H37	CADWR9000014469	1/2 - 1 Mile NNE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
I38	CADWR9000014477	1/2 - 1 Mile NNW
G39	CADWR9000014482	1/2 - 1 Mile North
J43	CADWR9000014426	1/2 - 1 Mile NE
45	CADWR0000034464	1/2 - 1 Mile NNE
J47	CAUSGSN00013484	1/2 - 1 Mile NE
M51	CADWR9000014152	1/2 - 1 Mile SSE
K55	CADDW0000018385	1/2 - 1 Mile NE
N59	CADWR9000014144	1/2 - 1 Mile South
K60	CAUSGSN00013482	1/2 - 1 Mile NE
M62	CADWR9000014143	1/2 - 1 Mile SSE
L64	CADWR9000014204	1/2 - 1 Mile SW
O65	CADWR9000014286	1/2 - 1 Mile ESE
P66	CAUSGSN00006772	1/2 - 1 Mile NNW
P72	CADWR9000014521	1/2 - 1 Mile NNW
75	CADWR9000014149	1/2 - 1 Mile SSW
R76	CADWR9000014425	1/2 - 1 Mile ENE
S77	CADWR9000014450	1/2 - 1 Mile NE
R79	CAUSGSN00001299	1/2 - 1 Mile ENE
R80	8933	1/2 - 1 Mile ENE
S81	CADDW0000022607	1/2 - 1 Mile NE
T82	CAUSGSN00015337	1/2 - 1 Mile North
U83	8934	1/2 - 1 Mile ENE
T86	CADWR9000014557	1/2 - 1 Mile NNW
S90	CADDW0000006615	1/2 - 1 Mile NE
V92	CADWR9000014150	1/2 - 1 Mile SW
94	CADDW0000021374	1/2 - 1 Mile NE
X95	CAUSGSN00000706	1/2 - 1 Mile NW
W98	CADWR9000014098	1/2 - 1 Mile South
X99	CADWR9000014496	1/2 - 1 Mile NW
104	CADWR9000014081	1/2 - 1 Mile South
Y107	CAUSGSN00007937	1/2 - 1 Mile NNW

PHYSICAL SETTING SOURCE MAP - 06935355.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	River West - Barstow	CLIENT:	MooreTwining Associates, Inc.
ADDRESS:	LENWOOD RD Barstow CA 92311	CONTACT:	Sara Bloom
LAT/LONG:	34.88696 / 117.115601	INQUIRY #:	06935355.2r
		DATE:	April 11, 2022 3:21 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000156662**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W08D003S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

A2
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000156663**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W08D001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1948	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

A3
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000156677**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W08D002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19810921	Well Depth:	175
Well Depth Units:	ft	Well Hole Depth:	175
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B4
NNE
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000014405**

State Well #:	09N02W08C002S	Station ID:	12172
Well Name:	Not Reported	Basin Name:	Lower Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

C5
North
1/4 - 1/2 Mile
Lower

CA WELLS **CAUSGSN00014703**

Well ID:	USGS-345329117065401	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345329117065401	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345329117065401&store_num=		
GeoTracker Data:	Not Reported		

C6
North
1/4 - 1/2 Mile
Lower

CA WELLS **CAUSGS000000790**

C7
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000156684**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W08D004S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19821015	Well Depth:	350
Well Depth Units:	ft	Well Hole Depth:	350
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1992-01-29
Feet below surface:	89.97	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B8
NNE
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000014412**

State Well #:	09N02W08C001S	Station ID:	29898
Well Name:	Not Reported	Basin Name:	Lower Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

B9
NE
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000156683**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W08C002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1950	Well Depth:	100
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-09-30
Feet below surface:	60	Feet to sea level:	Not Reported
Note:	Not Reported		

B10
NNE
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR0000030037**

Well ID:	09N02W08C001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	09N02W08C001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=09N02W08C001S&store_num=		
GeoTracker Data:	Not Reported		

B11
NNE
1/4 - 1/2 Mile
Lower

CA WELLS **CAUSGSN00007351**

Well ID:	USGS-345330117064001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345330117064001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345330117064001&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B12
NNE
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000156690**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W08C001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19540101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	87
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1962-03-15
Feet below surface:	58.98	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1958-06-18	Feet below surface:	60
Feet to sea level:	Not Reported	Note:	The site was being pumped.

D13
South
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000156325**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W08N001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1933-01-14
Feet below surface:	45	Feet to sea level:	Not Reported
Note:	Not Reported		

D14
South
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR9000014197**

State Well #:	09N02W08N001S	Station ID:	12173
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E15
North
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000014447**

State Well #:	09N02W05N007S	Station ID:	8883
Well Name:	09N02W05N07	Basin Name:	Lower Mojave River Valley
Well Use:	Residential	Well Type:	Single Well
Well Depth:	195	Well Completion Rpt #:	224194

E16
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000156757**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05N007S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	195
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	30	Level reading date:	2004-10-14
Feet below surface:	91.77	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2004-05-11	Feet below surface:	85.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-16	Feet below surface:	83.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-10-27	Feet below surface:	85.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-03-03	Feet below surface:	78.12
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	2002-10-31	Feet below surface:	78.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-04-15	Feet below surface:	72.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-10-17	Feet below surface:	72.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-25	Feet below surface:	69.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-04-11	Feet below surface:	64.15
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1999-11-22	Feet below surface:	64.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-14	Feet below surface:	60.15
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1998-10-28	Feet below surface:	59.67
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1996-05-15	Feet below surface:	61.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-05-12	Feet below surface:	55.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-03-14	Feet below surface:	67.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-11-14	Feet below surface:	73.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-11-15	Feet below surface:	70.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-03-22	Feet below surface:	66.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-11-24	Feet below surface:	105.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-05-27	Feet below surface:	98.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-10-30	Feet below surface:	99.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-06-20	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1990-05-25	Feet below surface:	87.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-11-02	Feet below surface:	86.39
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1989-05-19	Feet below surface:	78.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-10-28	Feet below surface:	77.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-05-19	Feet below surface:	70.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-05-29	Feet below surface:	65.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-04-28	Feet below surface:	63.30
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F17
NNE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00001938**

Well ID:	USGS-345337117064201	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345337117064201	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345337117064201&store_num=		
GeoTracker Data:	Not Reported		

E18
North
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00009800**

Well ID:	USGS-345339117065001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345339117065001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345339117065001&store_num=		
GeoTracker Data:	Not Reported		

E19
North
1/2 - 1 Mile
Lower

CA WELLS **CAUSGS000001161**

E20
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000156770**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05N001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1956	Well Depth:	55.9
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-18
Feet below surface:	34.12	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G21
North
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000014452**

State Well #:	09N02W05N001S	Station ID:	29773
Well Name:	Not Reported	Basin Name:	Lower Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

F22
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40000156756**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05P005S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	90
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

H23
NNE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000014451**

State Well #:	09N02W05P004S	Station ID:	8885
Well Name:	Not Reported	Basin Name:	Lower Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

E24
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000156778**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05N003S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1957	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

25
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000156334**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W07R001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1943	Well Depth:	132
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-09-30
Feet below surface:	61.04	Feet to sea level:	Not Reported
Note:	Not Reported		

F26
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40000156755**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05P003S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

E27
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000156801**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05N002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1957	Well Depth:	78
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-18
Feet below surface:	35.80	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

F28
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40000156769**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05P004S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1955	Well Depth:	63.5
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-18
Feet below surface:	34.77	Feet to sea level:	Not Reported
Note:	Not Reported		

G29
North
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000014470**

State Well #:	09N02W05N002S	Station ID:	8882
Well Name:	Not Reported	Basin Name:	Lower Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

F30
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40000156768**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05P001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G31
North
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00004973**

Well ID:	USGS-345343117065701	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345343117065701	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345343117065701&store_num=		
GeoTracker Data:	Not Reported		

32
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000156809**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05N005S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1958	Well Depth:	60
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

G33
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000156810**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05N004S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19510101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	50
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1953-12-15
Feet below surface:	27.25	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

34
SW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000014203**

State Well #:	09N02W07R001S	Station ID:	29897
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

I35
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000019280**

Well ID:	09N02W05N005S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	09N02W05N005S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=09N02W05N005S&store_num=		
GeoTracker Data:	Not Reported		

I36
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000021256**

Well ID:	09N02W05N006S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	09N02W05N006S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=09N02W05N006S&store_num=		
GeoTracker Data:	Not Reported		

H37
NNE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000014469**

State Well #:	09N02W05P002S	Station ID:	29775
Well Name:	Not Reported	Basin Name:	Lower Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

I38
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000014477**

State Well #:	09N02W05N004S	Station ID:	29774
Well Name:	Not Reported	Basin Name:	Lower Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown

Well Depth:	0	Well Completion Rpt #:	Not Reported

G39
North
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000014482**

State Well #:	09N02W05N008S	Station ID:	8884
Well Name:	Lenwood Rd	Basin Name:	Lower Mojave River Valley
Well Use:	Residential	Well Type:	Single Well
Well Depth:	195	Well Completion Rpt #:	158479

40
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000156816**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05N008S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19850916	Well Depth:	195
Well Depth Units:	ft	Well Hole Depth:	195
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	30	Level reading date:	2005-02-08
Feet below surface:	74.63	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2004-09-15	Feet below surface:	90.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-10	Feet below surface:	82.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-10-27	Feet below surface:	84.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-03-27	Feet below surface:	76.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-12-03	Feet below surface:	77.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-04-24	Feet below surface:	71.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-11-14	Feet below surface:	71.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-21	Feet below surface:	64.69
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-10-17	Feet below surface:	68.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-03-23	Feet below surface:	61.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-12	Feet below surface:	63.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-03-24	Feet below surface:	58.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-06	Feet below surface:	57.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-04-06	Feet below surface:	66.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-10-09	Feet below surface:	71.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-03-18	Feet below surface:	64.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-10-08	Feet below surface:	65.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-05-15	Feet below surface:	60.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-03-27	Feet below surface:	58.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-11-08	Feet below surface:	61.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-03-21	Feet below surface:	58.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-11-15	Feet below surface:	71.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-03-24	Feet below surface:	66.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-11-17	Feet below surface:	68.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-03-24	Feet below surface:	50.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-01-20	Feet below surface:	104.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-11-18	Feet below surface:	107.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-03-04	Feet below surface:	95.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-11-21	Feet below surface:	100.05
Feet to sea level:	Not Reported		

Note: A nearby site that taps the same aquifer was being pumped.

41
NNE **FED USGS** **USGS40000156800**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05P002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1956	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-18
Feet below surface:	34.88	Feet to sea level:	Not Reported
Note:	Not Reported		

42
WNW **FED USGS** **USGS40000156678**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W07B001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

J43
NE **CA WELLS** **CADWR9000014426**
1/2 - 1 Mile
Lower

State Well #:	09N02W08B001S	Station ID:	12171
Well Name:	Not Reported	Basin Name:	Lower Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

44
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000156802**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W06R002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1951	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

45
NNE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000034464**

Well ID:	09N02W05Q003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	09N02W05Q003S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=09N02W05Q003S&store_num=		
GeoTracker Data:	Not Reported		

J46
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000156709**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W08B001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	99
Well Depth Units:	ft	Well Hole Depth:	138
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	3	Level reading date:	1960-03-02
Feet below surface:	49.81	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1958-06-18	Feet below surface:	41.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-01	Feet below surface:	42.00
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J47
NE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00013484**

Well ID:	USGS-345333117061801	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345333117061801	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345333117061801&store_num=		
GeoTracker Data:	Not Reported		

K48
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000156767**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002305Q001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1957	Well Depth:	195
Well Depth Units:	ft	Well Hole Depth:	220
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-18
Feet below surface:	37.97	Feet to sea level:	Not Reported
Note:	Not Reported		

K49
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000156777**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05Q003S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L50
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000156335**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W07Q001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1947	Well Depth:	128
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1957
Feet below surface:	59	Feet to sea level:	Not Reported
Note:	Not Reported		

M51
SSE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000014152**

State Well #:	09N02W17C004S	Station ID:	12184
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

N52
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000156237**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17D004S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	125
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

N53
South
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000156238**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17D002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1953	Well Depth:	122
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

M54
SSE
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000156245**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17C004S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-10-08
Feet below surface:	71.15	Feet to sea level:	Not Reported
Note:	Not Reported		

K55
NE
1/2 - 1 Mile
Lower | **CA WELLS** | **CADDW0000018385**

Well ID:	3610043-027	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	AGATE WELL 03 - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610043-027&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M56
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000156244**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17C003S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

N57
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000156228**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17D001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1953	Well Depth:	120
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

N58
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000156229**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17D003S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1957	Well Depth:	144
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-10-08
Feet below surface:	76.06	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

N59
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000014144**

State Well #:	09N02W17D003S	Station ID:	12185
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

K60
NE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00013482**

Well ID:	USGS-345340117062001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345340117062001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345340117062001&store_num=		
GeoTracker Data:	Not Reported		

K61
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000156766**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05Q001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

M62
SSE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000014143**

State Well #:	09N02W17C001S	Station ID:	30018
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M63
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000156236**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17C005S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	125
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

L64
SW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000014204**

State Well #:	09N02W07Q001S	Station ID:	12169
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

O65
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000014286**

State Well #:	09N02W08J001S	Station ID:	29899
Well Name:	Not Reported	Basin Name:	Lower Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

P66
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00006772**

Well ID:	USGS-345352117070301	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345352117070301	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345352117070301&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

P67
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000156888**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W06J001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19810424	Well Depth:	75.5
Well Depth Units:	ft	Well Hole Depth:	75.5
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	7	Level reading date:	1983-09-27
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The well was destroyed (no water level is recorded).		
Level reading date:	1982-03-30	Feet below surface:	36.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-03-01	Feet below surface:	36.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-02-04	Feet below surface:	36.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-23	Feet below surface:	40.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-24	Feet below surface:	35.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-18	Feet below surface:	29.79
Feet to sea level:	Not Reported	Note:	Not Reported

P68
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000156889**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W06J002S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19810424	Well Depth:	75
Well Depth Units:	ft	Well Hole Depth:	75
Well Hole Depth Units:	ft		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Q69
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000156226**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17C001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1958-10-02
Feet below surface:	74.43	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1954-08-15	Feet below surface:	68.70
Feet to sea level:	Not Reported	Note:	Not Reported

Q70
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000156227**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17C002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	70
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

71
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000156239**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W18A001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	65
Well Depth Units:	ft	Well Hole Depth:	Not Reported

Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 3 Level reading date: 1958-06-19
Feet below surface: Not Reported Feet to sea level: Not Reported
Note: The site was dry (no water level recorded).

Level reading date: 1930-09-11 Feet below surface: Not Reported
Feet to sea level: Not Reported
Note: The site was dry (no water level recorded).

Level reading date: 1918 Feet below surface: 60
Feet to sea level: Not Reported Note: Not Reported

P72
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000014521**

State Well #: 09N02W06J001S Station ID: 12023
Well Name: Not Reported Basin Name: Lower Mojave River Valley
Well Use: Unknown Well Type: Unknown
Well Depth: 0 Well Completion Rpt #: Not Reported

O73
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000156456**

Organization ID: USGS-CA
Organization Name: USGS California Water Science Center
Monitor Location: 009N002W08J001S Type: Well
Description: COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT
HUC: 18090208 Drainage Area: Not Reported
Drainage Area Units: Not Reported Contrib Drainage Area: Not Reported
Contrib Drainage Area Unts: Not Reported Aquifer: Basin and Range basin-fill aquifers
Formation Type: Not Reported Aquifer Type: Not Reported
Construction Date: 1958 Well Depth: 137
Well Depth Units: ft Well Hole Depth: Not Reported
Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 1 Level reading date: 1958-09-30
Feet below surface: Not Reported Feet to sea level: Not Reported
Note: The site was dry (no water level recorded).

O74
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000156455**

Organization ID: USGS-CA
Organization Name: USGS California Water Science Center
Monitor Location: 009N002W08J002S Type: Well
Description: COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT
HUC: 18090208 Drainage Area: Not Reported
Drainage Area Units: Not Reported Contrib Drainage Area: Not Reported
Contrib Drainage Area Unts: Not Reported Aquifer: Basin and Range basin-fill aquifers

Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1956	Well Depth:	83
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

75
SSW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000014149**

State Well #:	09N02W18A001S	Station ID:	12188
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

R76
ENE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000014425**

State Well #:	09N02W08A001S	Station ID:	12170
Well Name:	Not Reported	Basin Name:	Lower Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

S77
NE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000014450**

State Well #:	09N02W05R001S	Station ID:	29776
Well Name:	Not Reported	Basin Name:	Lower Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

R78
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS40000156708**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W08A001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	91
Well Depth Units:	ft	Well Hole Depth:	100
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1957-09-20

Feet below surface:	48.5	Feet to sea level:	Not Reported
Note:	Other conditions existed that would affect the measured water level.		

R79
ENE **CA WELLS** **CAUSGSN00001299**
1/2 - 1 Mile
Lower

Well ID:	USGS-345333117060501	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345333117060501	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345333117060501&store_num=		
GeoTracker Data:	Not Reported		

R80
ENE **CA WELLS** **8933**
1/2 - 1 Mile
Lower

Seq:	8933	Prim sta c:	09N/02W-05R04 S
Frds no:	3610043003	County:	36
District:	13	User id:	TAN
System no:	3610043	Water type:	G
Source nam:	AGATE WELL 06 - STANDBY	Station ty:	WELL/AMBNT
Latitude:	345336.0	Longitude:	1170607.0
Precision:	3	Status:	SR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610043	System nam:	So Ca Water Co - Barstow
Hqname:	SO CAL WC- BARSTOW	Address:	830 E. WILLIAMS STREET
City:	BARSTOW	State:	CA
Zip:	92311	Zip ext:	Not Reported
Pop serv:	28119	Connection:	8521
Area serve:	BARSTOW		

Sample date:	26-FEB-18	Finding:	2.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	05-DEC-17	Finding:	70.
Chemical:	ALUMINUM	Report units:	UG/L
Dlr:	50.		

Sample date:	05-DEC-17	Finding:	3.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	05-DEC-17	Finding:	2.1
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	05-DEC-17	Finding:	2.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	27-MAR-17	Finding:	2.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-MAR-17	Finding:	3.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	27-MAR-17	Finding:	0.55
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	1.8
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	19.
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-MAR-17	Finding:	0.8
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	380.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	62.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	03-MAR-17	Finding:	2400.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	03-MAR-17	Finding:	0.6
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-MAR-17	Finding:	77.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-MAR-17	Finding:	59.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	62.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	8.5
Chemical:	MAGNESIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	03-MAR-17	Finding:	46.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	1.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	150.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	120.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	590.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	100.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	23-FEB-16	Finding:	1.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-FEB-15	Finding:	7.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-DEC-14	Finding:	1.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	18-FEB-14	Finding:	170.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	260.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	80.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	18-FEB-14	Finding:	7.68
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	890.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	98.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	2400.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-FEB-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	0.66
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	18-FEB-14	Finding:	0.2
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	610.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	4.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-FEB-14	Finding:	200.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	18-FEB-14	Finding:	2.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-FEB-14	Finding:	0.42
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	18-FEB-14	Finding:	190.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	18-FEB-14	Finding:	100.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	3.1
Chemical:	POTASSIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	04-SEP-12	Finding:	66.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	07-MAY-12	Finding:	64.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		

S81
NE **CA WELLS** **CADDW0000022607**
1/2 - 1 Mile
Lower

Well ID:	3610043-003	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	AGATE WELL 06 - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610043-003&store_num=		
GeoTracker Data:	Not Reported		

T82
North **CA WELLS** **CAUSGSN00015337**
1/2 - 1 Mile
Lower

Well ID:	USGS-345358117070201	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345358117070201	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345358117070201&store_num=		
GeoTracker Data:	Not Reported		

U83
ENE **CA WELLS** **8934**
1/2 - 1 Mile
Lower

Seq:	8934	Prim sta c:	09N/02W-05R05 S
Frds no:	3610043002	County:	36
District:	13	User id:	TAN
System no:	3610043	Water type:	G
Source nam:	AGATE WELL 05 - STANDBY	Station ty:	WELL/AMBNT
Latitude:	345338.0	Longitude:	1170607.0
Precision:	3	Status:	SR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3610043	System nam:	So Ca Water Co - Barstow
Hqname:	SO CAL WC- BARSTOW	Address:	830 E. WILLIAMS STREET
City:	BARSTOW	State:	CA
Zip:	92311	Zip ext:	Not Reported
Pop serv:	28119	Connection:	8521
Area serve:	BARSTOW		

Sample date:	26-FEB-18	Finding:	2.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-DEC-17	Finding:	2.3
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-DEC-17	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-DEC-17	Finding:	2.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	0.49
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-MAR-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	1.7
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	850.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	540.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	0.59
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-MAR-17	Finding:	140.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-MAR-17	Finding:	94.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	2.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	0.94
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	03-MAR-17	Finding:	170.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	1.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	210.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	63.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	12.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	78.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-FEB-16	Finding:	1.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-FEB-15	Finding:	8.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-DEC-14	Finding:	1.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	20-MAY-14	Finding:	1.73
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-MAY-14	Finding:	1.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	1700.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-FEB-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	0.63
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	18-FEB-14	Finding:	7.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	18-FEB-14	Finding:	0.17
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	3.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-FEB-14	Finding:	4.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-FEB-14	Finding:	530.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	0.45
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	18-FEB-14	Finding:	150.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	18-FEB-14	Finding:	97.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	780.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	170.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	69.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	12.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	87.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-FEB-14	Finding:	2.9
Chemical:	POTASSIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	26-FEB-13	Finding:	6.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-SEP-12	Finding:	66.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	07-MAY-12	Finding:	64.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	04-JAN-12	Finding:	7.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

T84
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000156934**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05M001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	27	Level reading date:	1977-11-09
Feet below surface:	70.80	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1977-05-31	Feet below surface:	66.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-29	Feet below surface:	65.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-16	Feet below surface:	59.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-01	Feet below surface:	55.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-12-06	Feet below surface:	50.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-06	Feet below surface:	50.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-10	Feet below surface:	50.19
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1973-09-04	Feet below surface:	49.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-01	Feet below surface:	48.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-07-03	Feet below surface:	49.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-01	Feet below surface:	46.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-19	Feet below surface:	44.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-15	Feet below surface:	44.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-02-22	Feet below surface:	44.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-01-25	Feet below surface:	46.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-12-14	Feet below surface:	45.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-21	Feet below surface:	45.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-10-23	Feet below surface:	45.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-09-12	Feet below surface:	45.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-08-16	Feet below surface:	44.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-07-20	Feet below surface:	44.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-20	Feet below surface:	43.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-15	Feet below surface:	41.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-04-18	Feet below surface:	41.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-22	Feet below surface:	40.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-02-18	Feet below surface:	39.30
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

T85
North
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000156935**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05M002S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19710101	Well Depth:	54
Well Depth Units:	ft	Well Hole Depth:	54
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	24	Level reading date:	1973-12-06
Feet below surface:	50.59	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1973-11-06	Feet below surface:	50.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-10	Feet below surface:	50.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-04	Feet below surface:	49.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-01	Feet below surface:	48.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-07-03	Feet below surface:	45.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-01	Feet below surface:	45.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-19	Feet below surface:	44.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-15	Feet below surface:	44.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-02-22	Feet below surface:	44.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-01-25	Feet below surface:	44.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-12-14	Feet below surface:	45.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-21	Feet below surface:	45.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-10-23	Feet below surface:	45.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1972-09-12	Feet below surface:	45.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-08-16	Feet below surface:	44.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-07-20	Feet below surface:	43.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-20	Feet below surface:	42.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-15	Feet below surface:	41.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-04-18	Feet below surface:	40.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-22	Feet below surface:	40.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-02-18	Feet below surface:	39.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-02-07	Feet below surface:	39.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-02-01	Feet below surface:	39.00
Feet to sea level:	Not Reported	Note:	Not Reported

T86
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000014557**

State Well #:	09N02W05M002S	Station ID:	8881
Well Name:	Not Reported	Basin Name:	Lower Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

V87
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40000156240**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W18B001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1954	Well Depth:	126
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1955

Feet below surface:	51	Feet to sea level:	Not Reported
Note:	Not Reported		

S88
NE **FED USGS** **USGS40000156765**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05R001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1956	Well Depth:	105
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-08
Feet below surface:	33.02	Feet to sea level:	Not Reported
Note:	Not Reported		

U89
NE **FED USGS** **USGS40000156754**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W05R002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1950	Well Depth:	44
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

S90
NE **CA WELLS** **CADDW0000006615**
1/2 - 1 Mile
Lower

Well ID:	3610043-002	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	AGATE WELL 05	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610043-002&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

W91
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000156161**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17E005S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	110
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

V92
SW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000014150**

State Well #:	09N02W18B001S	Station ID:	12189
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

W93
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000156162**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17E008S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

94
NE
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000021374**

Well ID:	3610043-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	AGATE WELL 04	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610043-001&store_num=		

GeoTracker Data: Not Reported

X95
NW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00000706**

Well ID:	USGS-345347117074101	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345347117074101	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345347117074101&store_num=		
GeoTracker Data:	Not Reported		

W96
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000156151**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17E007S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-10-10
Feet below surface:	75.35	Feet to sea level:	Not Reported
Note:	Not Reported		

W97
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000156152**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17E010S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

W98
South
1/2 - 1 Mile
Higher | **CA WELLS** | **CADWR9000014098**

State Well #:	09N02W17E007S	Station ID:	30021
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

X99
NW
1/2 - 1 Mile
Lower | **CA WELLS** | **CADWR9000014496**

State Well #:	09N02W06P001S	Station ID:	12168
Well Name:	Lenwood-3	Basin Name:	Lower Mojave River Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	96	Well Completion Rpt #:	Not Reported

Y100
North
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000156972**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W06H006S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19940417	Well Depth:	98.3
Well Depth Units:	ft	Well Hole Depth:	100
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	156	Level reading date:	2004-10-13
Feet below surface:	93.72	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2004-09-01	Feet below surface:	92.86
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	2004-08-04	Feet below surface:	92.20
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	2004-07-12	Feet below surface:	90.69
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	2004-06-21	Feet below surface:	88.25
Feet to sea level:	Not Reported		

Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2004-05-19	Feet below surface:	86.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-27	Feet below surface:	85.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-18	Feet below surface:	83.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-01	Feet below surface:	83.52
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2004-01-13	Feet below surface:	84.32
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2003-11-19	Feet below surface:	86.71
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2003-11-18	Feet below surface:	86.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-10-15	Feet below surface:	87.59
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2003-09-04	Feet below surface:	86.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-08-13	Feet below surface:	85.54
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2003-07-21	Feet below surface:	84.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-06-25	Feet below surface:	82.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-06-02	Feet below surface:	80.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-05-02	Feet below surface:	79.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-04-03	Feet below surface:	78.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-03-06	Feet below surface:	77.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-01-09	Feet below surface:	77.81
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2002-09-09	Feet below surface:	79.33
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-07-01	Feet below surface:	75.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-03-20	Feet below surface:	70.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-01-24	Feet below surface:	70.69
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-10-01	Feet below surface:	72.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-08-29	Feet below surface:	71.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-08-01	Feet below surface:	71.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-06-29	Feet below surface:	70.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-05-31	Feet below surface:	69.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-05-02	Feet below surface:	67.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-28	Feet below surface:	64.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-05	Feet below surface:	64.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-01-30	Feet below surface:	64.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-19	Feet below surface:	66.40
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2000-11-29	Feet below surface:	67.78
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2000-10-26	Feet below surface:	69.67
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2000-09-22	Feet below surface:	69.76
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2000-08-22	Feet below surface:	68.85
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2000-07-27	Feet below surface:	68.17
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2000-06-28	Feet below surface:	66.73
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-05-22	Feet below surface:	65.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-04-25	Feet below surface:	64.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-03-29	Feet below surface:	63.15
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2000-02-28	Feet below surface:	61.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-01-26	Feet below surface:	62.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-12-20	Feet below surface:	63.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-11-30	Feet below surface:	63.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-25	Feet below surface:	64.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-09-27	Feet below surface:	64.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-08-30	Feet below surface:	64.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-07-27	Feet below surface:	63.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-06-28	Feet below surface:	62.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-05-25	Feet below surface:	61.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-26	Feet below surface:	60.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-03-30	Feet below surface:	59.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-02-22	Feet below surface:	58.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-01-21	Feet below surface:	58.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-12-22	Feet below surface:	58.70
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1998-11-23	Feet below surface:	59.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-22	Feet below surface:	59.49
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1998-09-26	Feet below surface:	59.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-08-24	Feet below surface:	58.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-07-28	Feet below surface:	57.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-06-24	Feet below surface:	54.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-05-26	Feet below surface:	54.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-04-23	Feet below surface:	64.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-03-26	Feet below surface:	69.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-03-02	Feet below surface:	70.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-01-29	Feet below surface:	71.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-12-30	Feet below surface:	72.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-11-27	Feet below surface:	72.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-11-06	Feet below surface:	73.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-09-23	Feet below surface:	73.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-08-28	Feet below surface:	72.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-07-30	Feet below surface:	71.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-06-30	Feet below surface:	70.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-05-28	Feet below surface:	69.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-04-29	Feet below surface:	67.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-03-27	Feet below surface:	65.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-02-27	Feet below surface:	63.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-01-30	Feet below surface:	63.26
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1997-01-02	Feet below surface:	64.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-11-27	Feet below surface:	65.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-10-21	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-09-26	Feet below surface:	67.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-08-21	Feet below surface:	67.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-07-30	Feet below surface:	66.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-07-02	Feet below surface:	65.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-05-30	Feet below surface:	62.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-29	Feet below surface:	62.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-03-27	Feet below surface:	58.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-02-29	Feet below surface:	56.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-01-31	Feet below surface:	58.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-12-18	Feet below surface:	60.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-11-27	Feet below surface:	60.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-10-30	Feet below surface:	62.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-09-25	Feet below surface:	83.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-08-28	Feet below surface:	62.80
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1995-07-24	Feet below surface:	61.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-06-26	Feet below surface:	60.60
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1995-05-24	Feet below surface:	47.61
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1995-04-24	Feet below surface:	49.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-03-28	Feet below surface:	58.44
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1995-02-27	Feet below surface:	66.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-01-23	Feet below surface:	69.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-12-19	Feet below surface:	71.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-11-28	Feet below surface:	71.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-10-24	Feet below surface:	73.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-09-26	Feet below surface:	74.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-08-26	Feet below surface:	74.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-08-22	Feet below surface:	74.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-07-26	Feet below surface:	73.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-07-25	Feet below surface:	73.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-07-01	Feet below surface:	75.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-30	Feet below surface:	72.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-30	Feet below surface:	75.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-29	Feet below surface:	75.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-29	Feet below surface:	75.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-28	Feet below surface:	74.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-28	Feet below surface:	74.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-27	Feet below surface:	74.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-27	Feet below surface:	74.1

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-26	Feet below surface:	74.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-26	Feet below surface:	74.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-25	Feet below surface:	74.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-25	Feet below surface:	69.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-24	Feet below surface:	72.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-24	Feet below surface:	74.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-23	Feet below surface:	73.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-23	Feet below surface:	73.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-22	Feet below surface:	73.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-22	Feet below surface:	73.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-21	Feet below surface:	73.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-21	Feet below surface:	73.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-20	Feet below surface:	73.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-20	Feet below surface:	73.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-19	Feet below surface:	73.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-19	Feet below surface:	73.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-18	Feet below surface:	74.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-18	Feet below surface:	73.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-17	Feet below surface:	73.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-16	Feet below surface:	74.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1994-06-15	Feet below surface:	73.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-15	Feet below surface:	73.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-14	Feet below surface:	72.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-14	Feet below surface:	71.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-13	Feet below surface:	73.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-10	Feet below surface:	72.15
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1994-06-09	Feet below surface:	71.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-09	Feet below surface:	72.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-08	Feet below surface:	71.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-08	Feet below surface:	70.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-07	Feet below surface:	71.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-07	Feet below surface:	70.63
Feet to sea level:	Not Reported	Note:	Not Reported

W101
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000156130**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17E006S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	170
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

W102
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000156131**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17E009S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	120
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

W103
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000156119**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17E002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-10-08
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

104
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000014081**

State Well #:	09N02W17E002S	Station ID:	12186
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

105
SSW
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000156132**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W18H002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-10-08
Feet below surface:	75.02	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

X106
NW
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000156848**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W06P001S	Type:	Well
Description:	LENWOOD 3 @ 75-95; Depth 94.0 ft Feb 1997		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19940414	Well Depth:	94
Well Depth Units:	ft	Well Hole Depth:	97
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	150	Level reading date:	2004-11-02
Feet below surface:	78.88	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2004-10-13	Feet below surface:	79.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-09-01	Feet below surface:	78.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-08-04	Feet below surface:	78.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-07-12	Feet below surface:	77.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-06-21	Feet below surface:	76.21
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2004-05-19	Feet below surface:	74.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-27	Feet below surface:	73.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-18	Feet below surface:	73.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-01	Feet below surface:	72.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-01-13	Feet below surface:	72.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-11-18	Feet below surface:	76.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-10-15	Feet below surface:	76.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-09-04	Feet below surface:	74.69
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-08-13	Feet below surface:	74.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-07-21	Feet below surface:	73.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-06-25	Feet below surface:	71.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-05-30	Feet below surface:	69.69
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-05-22	Feet below surface:	69.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-05-14	Feet below surface:	69.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-05-06	Feet below surface:	69.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-05-02	Feet below surface:	69.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-04-03	Feet below surface:	70.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-03-06	Feet below surface:	69.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-01-09	Feet below surface:	69.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-09-09	Feet below surface:	70.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-07-01	Feet below surface:	67.12
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-03-20	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-01-24	Feet below surface:	62.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-10-02	Feet below surface:	63.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-06-21	Feet below surface:	60.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-06-14	Feet below surface:	60.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-06-07	Feet below surface:	60.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-06-01	Feet below surface:	59.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-05-24	Feet below surface:	59.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-05-17	Feet below surface:	59.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-05-10	Feet below surface:	58.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-05-03	Feet below surface:	58.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-04-24	Feet below surface:	57.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-04-18	Feet below surface:	57.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-04-11	Feet below surface:	57.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-04-05	Feet below surface:	56.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-27	Feet below surface:	56.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-19	Feet below surface:	55.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-13	Feet below surface:	55.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-08	Feet below surface:	55.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-02-26	Feet below surface:	55.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-02-21	Feet below surface:	55.97
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-02-14	Feet below surface:	56.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-02-08	Feet below surface:	56.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-02-01	Feet below surface:	55.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-01-25	Feet below surface:	55.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-01-16	Feet below surface:	55.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-01-11	Feet below surface:	55.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-28	Feet below surface:	55.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-18	Feet below surface:	55.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-11	Feet below surface:	55.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-07	Feet below surface:	55.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-06	Feet below surface:	51.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-01	Feet below surface:	55.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-11-21	Feet below surface:	55.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-11-08	Feet below surface:	57.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-11-03	Feet below surface:	57.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-12	Feet below surface:	60.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-06	Feet below surface:	60.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-09-18	Feet below surface:	60.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-09-11	Feet below surface:	59.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-08-28	Feet below surface:	59.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-07-27	Feet below surface:	58.44
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-07-06	Feet below surface:	57.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-06-28	Feet below surface:	57.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-06-20	Feet below surface:	57.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-06-13	Feet below surface:	56.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-06-06	Feet below surface:	59.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-06-01	Feet below surface:	58.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-05-19	Feet below surface:	55.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-04-24	Feet below surface:	54.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-03-28	Feet below surface:	53.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-02-28	Feet below surface:	52.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-01-26	Feet below surface:	51.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-12-20	Feet below surface:	51.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-11-30	Feet below surface:	51.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-25	Feet below surface:	53.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-09-27	Feet below surface:	55.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-08-30	Feet below surface:	55.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-07-27	Feet below surface:	53.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-06-30	Feet below surface:	53.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-05-25	Feet below surface:	52.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-26	Feet below surface:	52.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-03-30	Feet below surface:	51.48
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1999-02-22	Feet below surface:	49.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-01-21	Feet below surface:	49.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-12-22	Feet below surface:	49.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-11-23	Feet below surface:	50.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-22	Feet below surface:	50.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-09-26	Feet below surface:	40.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-08-24	Feet below surface:	49.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-07-28	Feet below surface:	47.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-06-24	Feet below surface:	42.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-05-26	Feet below surface:	22.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-04-23	Feet below surface:	50.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-03-26	Feet below surface:	65.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-03-02	Feet below surface:	57.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-01-29	Feet below surface:	63.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-12-30	Feet below surface:	64.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-11-27	Feet below surface:	64.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-11-06	Feet below surface:	66.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-09-23	Feet below surface:	66.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-08-28	Feet below surface:	66.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-07-30	Feet below surface:	65.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-06-30	Feet below surface:	63.67
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1997-05-28	Feet below surface:	62.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-04-29	Feet below surface:	61.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-03-27	Feet below surface:	58.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-02-27	Feet below surface:	57.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-01-30	Feet below surface:	56.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-01-02	Feet below surface:	57.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-11-27	Feet below surface:	59.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-10-21	Feet below surface:	60.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-09-26	Feet below surface:	60.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-08-21	Feet below surface:	58.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-07-30	Feet below surface:	58.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-07-02	Feet below surface:	57.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-05-30	Feet below surface:	55.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-29	Feet below surface:	54.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-03-27	Feet below surface:	51.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-02-29	Feet below surface:	50.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-01-31	Feet below surface:	51.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-12-18	Feet below surface:	52.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-11-27	Feet below surface:	52.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-10-30	Feet below surface:	54.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-09-25	Feet below surface:	54.46
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1995-08-28	Feet below surface:	53.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-08-16	Feet below surface:	52.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-07-24	Feet below surface:	51.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-06-26	Feet below surface:	50.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-05-24	Feet below surface:	46.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-04-24	Feet below surface:	38.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-03-28	Feet below surface:	28.33
Feet to sea level:	Not Reported		
Note:	Other conditions existed that would affect the measured water level.		
Level reading date:	1995-02-27	Feet below surface:	51.69
Feet to sea level:	Not Reported		
Note:	Other conditions existed that would affect the measured water level.		
Level reading date:	1995-01-23	Feet below surface:	60.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-12-19	Feet below surface:	62.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-11-28	Feet below surface:	63.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-10-24	Feet below surface:	64.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-09-26	Feet below surface:	64.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-08-22	Feet below surface:	63.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-07-28	Feet below surface:	62.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-07-25	Feet below surface:	62.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-06-07	Feet below surface:	60.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-16	Feet below surface:	58.97
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Y107
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00007937**

Well ID:	USGS-345402117070401	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345402117070401	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345402117070401&store_num=		
GeoTracker Data:	Not Reported		

108
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000156110**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17E004S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-10-08
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

W109
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000156111**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N002W17E003S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-10-08
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92311	36	2

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 92311

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.800 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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River West - Barstow
LENWOOD RD
Barstow, CA 92311

Inquiry Number: 6935355.5
April 14, 2022

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2017	☑	☐	EDR Digital Archive
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1995	☑	☐	EDR Digital Archive
1992	☑	☐	EDR Digital Archive
1986	☑	☐	Haines Criss-Cross Directory
1980	☑	☐	Haines Criss-Cross Directory
1976	☑	☐	Haines Criss-Cross Directory
1971	☐	☐	Haines Criss-Cross Directory
1964	☑	☐	Luskey Brothers & Co. Publications

FINDINGS

TARGET PROPERTY STREET

LENWOOD RD
Barstow, CA 92311

Year	*CD Image*	*Source*	
LENWOOD RD			
2017	pg A1	EDR Digital Archive	
2014	pg A2	EDR Digital Archive	
2010	pg A3	EDR Digital Archive	
2005	pg A4	EDR Digital Archive	
2000	pg A5	EDR Digital Archive	
1995	pg A6	EDR Digital Archive	
1992	pg A7	EDR Digital Archive	
1986	pg A8	Haines Criss-Cross Directory	
1980	pg A9	Haines Criss-Cross Directory	
1976	pg A10	Haines Criss-Cross Directory	
1971	-	Haines Criss-Cross Directory	Street not listed in Source
1964	pg A11	Luskey Brothers & Co. Publications	

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

LENWOOD RD 2017

3610	VILLANUEVA, JUDY A
3620	PASOS, ELIDIA
3628	TERRY, JENNIFER L
3890	DESERT EMPIRE DRILLING
	WALLIS WATER SYSTEMS INC
3970	NEWMARK INTERNATIONAL INC
4290	KNAUSS, ROBERT
	MULLER, WALTER W
	RODRIGUEZ, JESUS B
	SMITH, BRITNEY

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

LENWOOD RD 2014

3610	FRITZ, MICHAEL E
	OCCUPANT UNKNOWN,
	VILLANUEVA, JUDY A
3620	PASOS, ELIDIA
3628	TERRY, LEO
3636	GARCIA, RACHEL
3811	THANH HONG
3890	DESERT EMPIRE DRILLING
	DESERT EMPIRE DRILLING WATER WELL SE
3900	BRIMMHAL, ANGEL
3970	NEWMARK INTERNATIONAL INC
4290	RODRIGUEZ, JESUS B

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

LENWOOD RD 2010

3870	CARROLL FULMER LOGISITCS CORP
3890	DESERT EMPIRE DRILLING WATER
	WALLIS WATER SYSTEMS INC
3900	BRIMMHAL, ANGEL
3970	CAMPANALIE, RICHARD A
	VALMONTNEWMARK
4290	RODRIGUEZ, JESUS B

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

LENWOOD RD 2005

3811	CONTINENTAL RPVS
3870	KINGPIN ENTP
3880	CRUISE AMERICAN RENTAL & SALES
	FREEDOM TOWING & RECOVERY
3890	DESERT EMPIRE DRILLING
	WALLIS OPIE
	WALLIS WATER SYSTEMS INC
3970	NEWMARK INTERNATIONAL INC
	OCCUPANT UNKNOWN,
4290	RODRIGUEZ, JESUS B

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

LENWOOD RD 2000

3811	CONTINENTAL RPVS
3870	MILANOVIC, RADOMIR
3880	FREEDOM TOWING & RECOVERY
3890	DESERT EMPIRE DRILLING WATER WELL SERVICES
4290	MARTINEZ, JEREMY

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

LENWOOD RD 1995

2951 YELLOW FREIGHT SYSTEM INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

LENWOOD RD 1992

2951 YELLOW FREIGHT SYST

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

LENWOOD RD 1986

LENWOOD RD 92311
BARSTOW

LENWOOD AREA

34088 ½	OEBENEOETTI DAVID	253-2208	5
34103	SMITH DANIEL W	253-7354	+6
34108	XXXX	00	
34120	SMITH BETTY J	253-3703	+6
	SMITH ROY W	253-3703	+6
34337	DESERT DISTRIBUTING	253-2411	4
34474	WALLIS WARREN	253-5637	+6
	WALLIS WARREN OPIE	253-2918	+6
	WALLIS WATER SYSTEM	253-5637	+6
	WARREN OPIE WALLIS	253-2918	+6
34499	ASSOCTD AMER TOWING	253-2524	+6
	IND ENGN SERV	253-2985	+6
35224	ELDER CLARENCE	253-7274	
35236	BACKPORCH REST&BAR	253-3607	+6
35453	HARPER JOHN	253-5568	8
36154	YOUNG WILLIAM	253-5302	1
NO #	A 1 BARSTOW TOWING	253-2943	5
NO #	BARSTOW TRUCK SERV	253-2943	1
NO #	DESERT RESEARCH CTR	253-5514	1
NO #	HARVEY HOUSE RSTRNT	253-2214	
NO #	NUNT&ASSOC RLTR	253-2929	1
NO #	LENWOOD CHEVRON	253-2503	
NO #	YELLOW FREIGHT SYS	253-2937	4

★ 15 BUS 8 RES 10 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

LENWOOD RD 1980

LENWOOD RD 92311
BARSTOW

LENWOOD AREA

33632	KNIGHT CRAIG	253-7578	8
34088	WESELY JOHN E	253-7375	
34088½	SMITH R D	253-7503	+0
34108	XXXX	00	
34120	HOOPER JEFF D	253-3298	+0
34474	WALLIS WARREN OPIE	253-3300	9
★	**WARREN OPIE WALLIS**	**253-3300**	9
35224	ELDER CLARENCE	253-7274	
35236★	**MCCOYS FEED&FARM**	**253-7323**	7
35326	XXXX	00	
35453	HARPER JOHN	253-5568	8
36154	XXXX	00	
36222	GARCIA LEON O	253-2461	+0
36310	BOLIN WILLIAM J	253-2616	+0
36336	MENENDEZ ROBT A	253-7548	+0
36388	HOWELL ALAN	253-2613	8
36406	MARS RUSSELL R	253-5510	9
NO #★	**FORDS DIESEL REPAIR**	**253-2206**	+0
NO #★	**HARVEY HOUSE**	**253-2214**	6
NO #★	**HUNT FRANK&SON RLTR**	**253-2929**	3
NO #★	**LAS VEGAS WELCOME**	**253-7411**	+0
NO #★	**LENWOOD CHEVRON**	**253-2503**	3
NO #★	**LENWOOD CHEVRON**	**253-2997**	8
NO #★	**TOMAHAWK TRUCK STOP**	**253-2941**	5
NO #★	**YELLOW FRGHT SYSTEM**	**253-2937**	7

★ 10 BUS 15 RES 7 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

LENWOOD RD 1976

LENWOOD RD 92311 BARSTOW

LENWOOD AREA

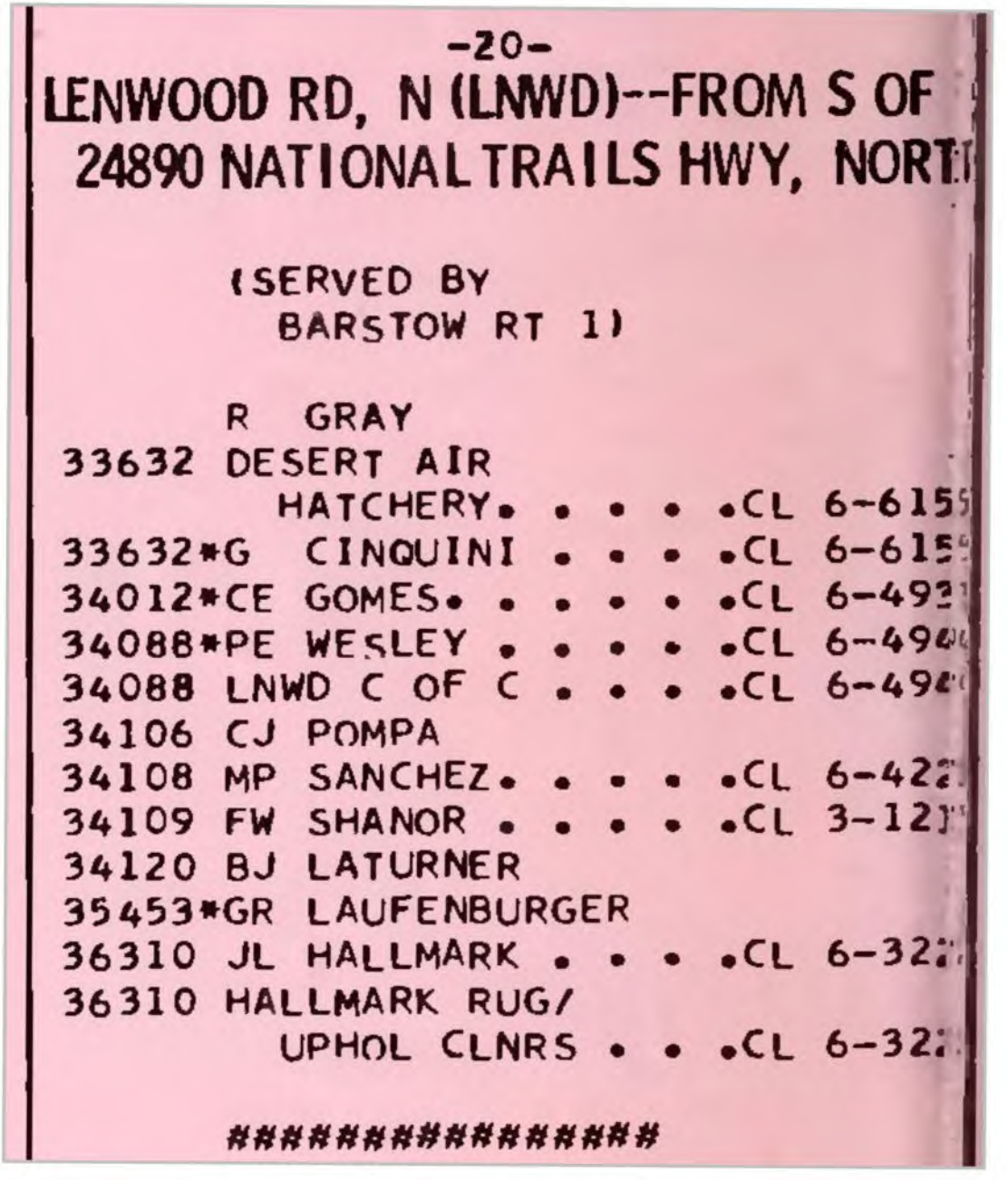
33632	HOWELL TROY	253-2514+6
34088	WESELY PAUL E	253-7375
34108	XXXX	OO
34120	XXXX	OO
35224	ELDER CLARENCE	253-7274
35326	*GRAYS SECOND HAND	253-3410+6
35453	SAVORY J R	253-7354 5
36154	XXXX	OO
36310	SMITH WILLARD W	253-2265 5
36388	CASELLA FRANK A	253-7696
36406	WEBB RAY	253-3507+6
36948	XXXX	OO
NO	#*COLBYS ARCO	253-5418 5
NO	#*HUNT F R&SON RLTRS	253-2929 3
NO	#*LENWOOD CHEVRON	253-2503 3
NO	#*TOMAHAWK TRUCK STOP	253-2941 5

* 5 BUS 11 RES 3 NEW

Copyright Haines & Co., Inc. Information on this

Target Street	Cross Street	Source
✓	-	Luskey Brothers & Co.

LENWOOD RD 1964



-20-

LENWOOD RD, N (LNWD)--FROM S OF
24890 NATIONAL TRAILS HWY, NORTH

(SERVED BY
BARSTOW RT 1)

R GRAY
33632 DESERT AIR
HATCHERY. . . . . CL 6-6155
33632*G CINQUINI . . . . CL 6-615[illegible]
34012*CE GOMES. . . . . CL 6-49[illegible]
34088*PE WESLEY . . . . . CL 6-49[illegible]
34088 LNWD C OF C . . . . CL 6-49[illegible]
34106 CJ POMPA
34108 MP SANCHEZ. . . . . CL 6-42[illegible]
34109 FW SHANOR . . . . . CL 3-12[illegible]
34120 BJ LATURNER
35453*GR LAUFENBURGER
36310 JL HALLMARK . . . . CL 6-32[illegible]
36310 HALLMARK RUG/
UPHOL CLNRS . . . CL 6-32[illegible]

##################

River West - Barstow

LENWOOD RD

Barstow, CA 92311

Inquiry Number: 6935355.8

April 12, 2022

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

04/12/22

Site Name:

River West - Barstow
LENWOOD RD
Barstow, CA 92311
EDR Inquiry # 6935355.8

Client Name:

MooreTwining Associates, Inc.
2527 Fresno Street
Fresno, CA 93721
Contact: Sara Bloom

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Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1984	1"=500'	Flight Date: October 07, 1984	USDA
1973	1"=500'	Flight Date: January 01, 1973	Teledyne
1970	1"=500'	Flight Date: May 14, 1970	USGS
1968	1"=500'	Flight Date: May 28, 1968	USDA
1964	1"=500'	Flight Date: February 21, 1964	Hurd
1959	1"=500'	Flight Date: June 22, 1959	USDA
1953	1"=500'	Flight Date: January 09, 1953	USDA

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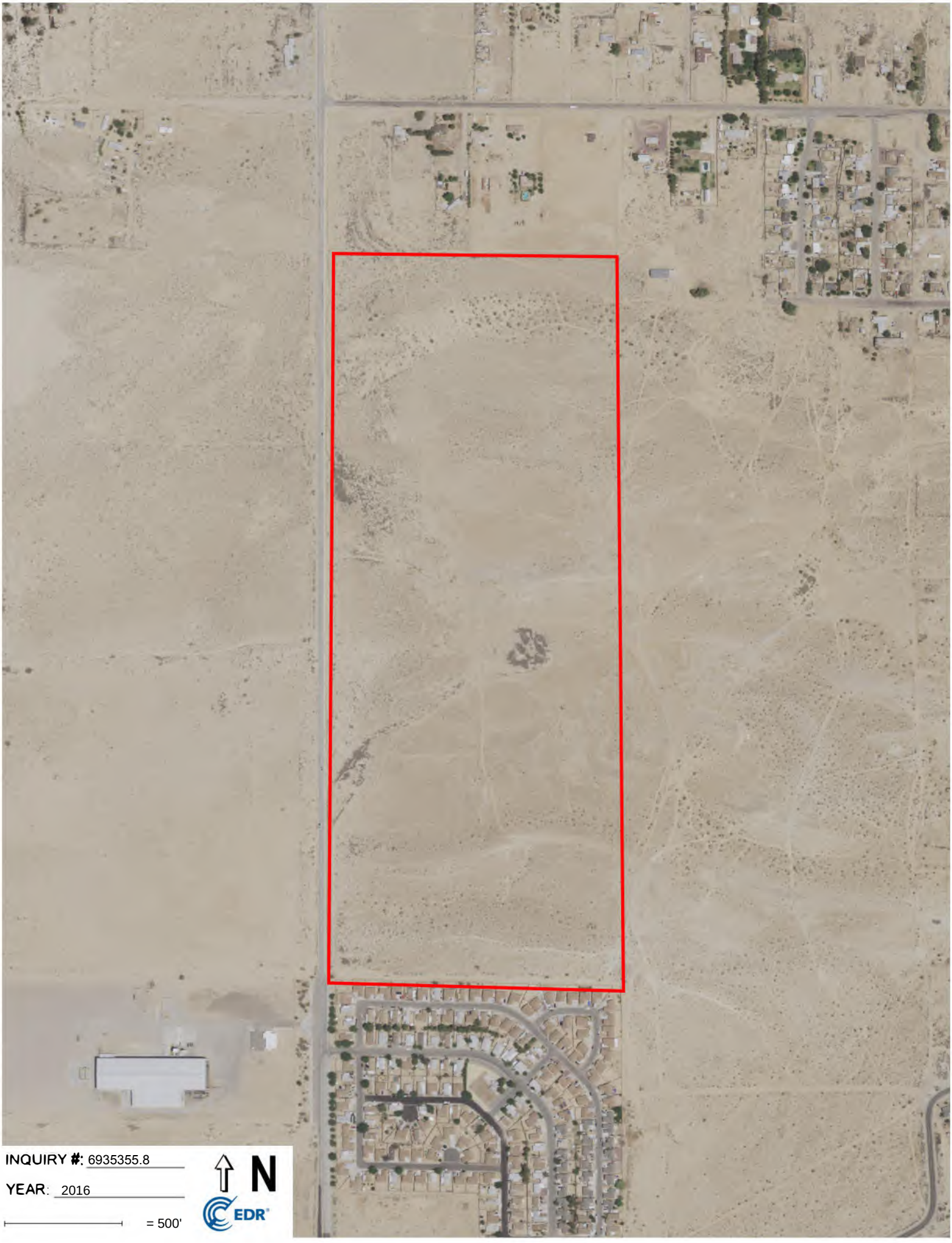
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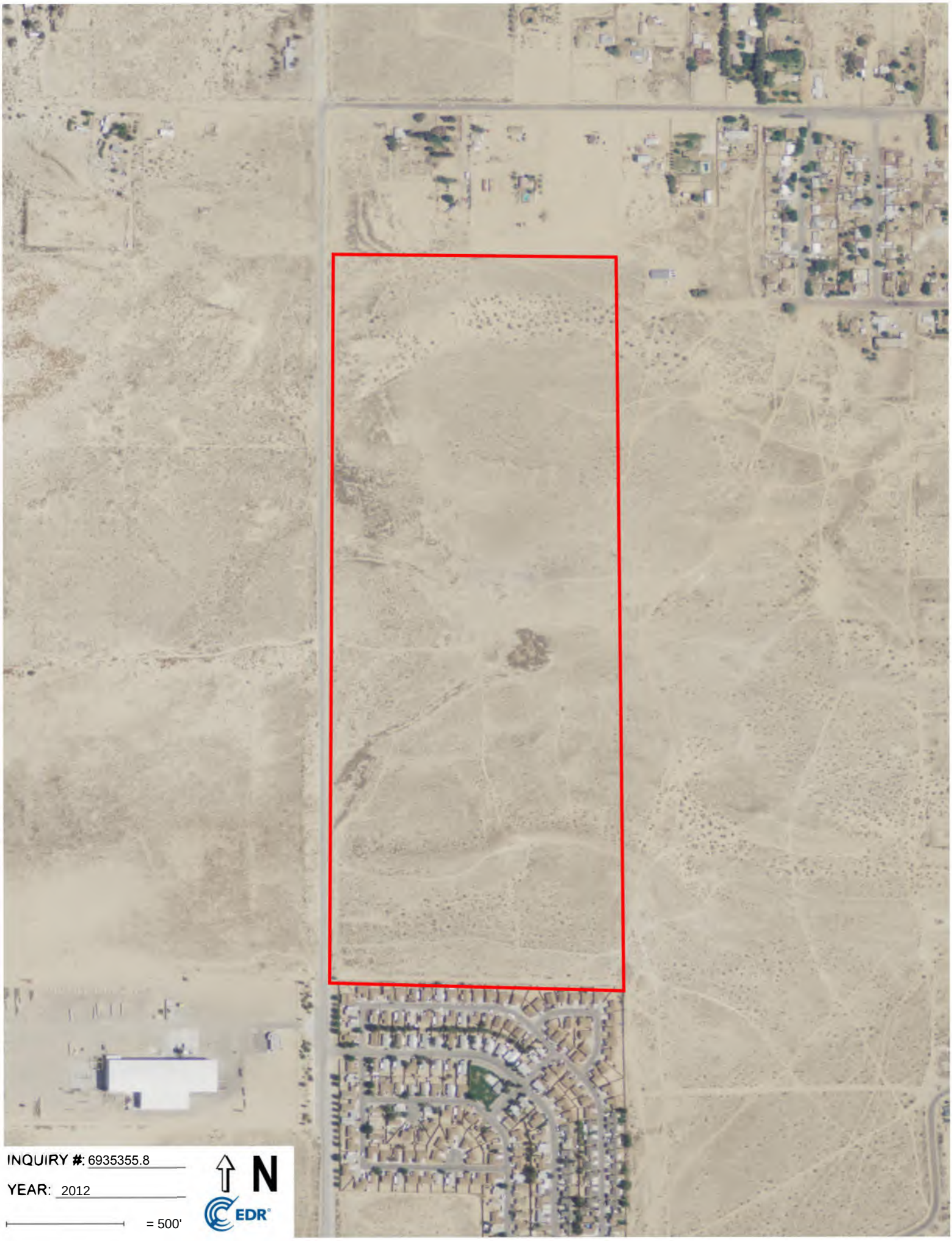
YEAR: 2016
= 500'
N
EDR



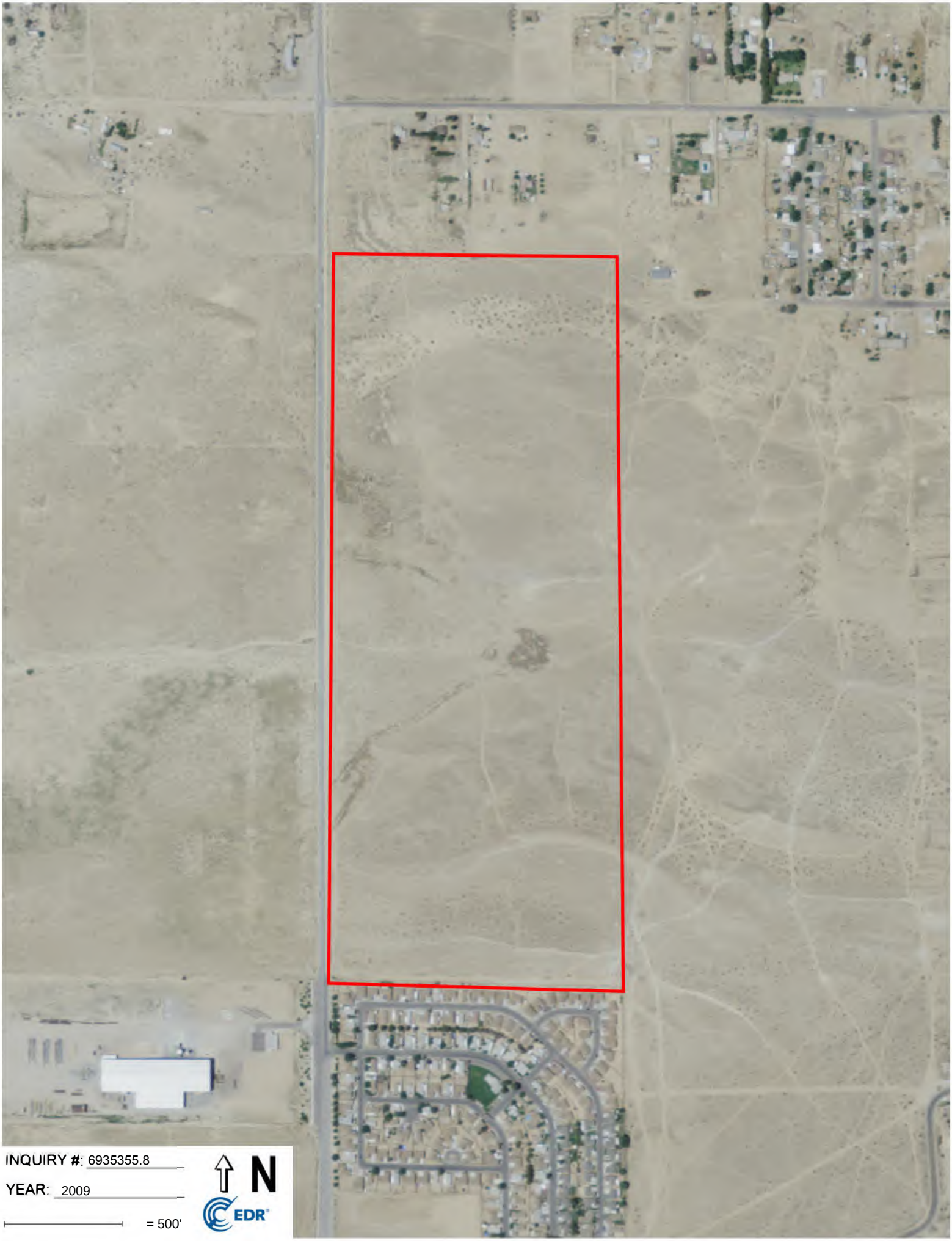
INQUIRY #: 6935355.8

YEAR: 2012

= 500'

N

EDR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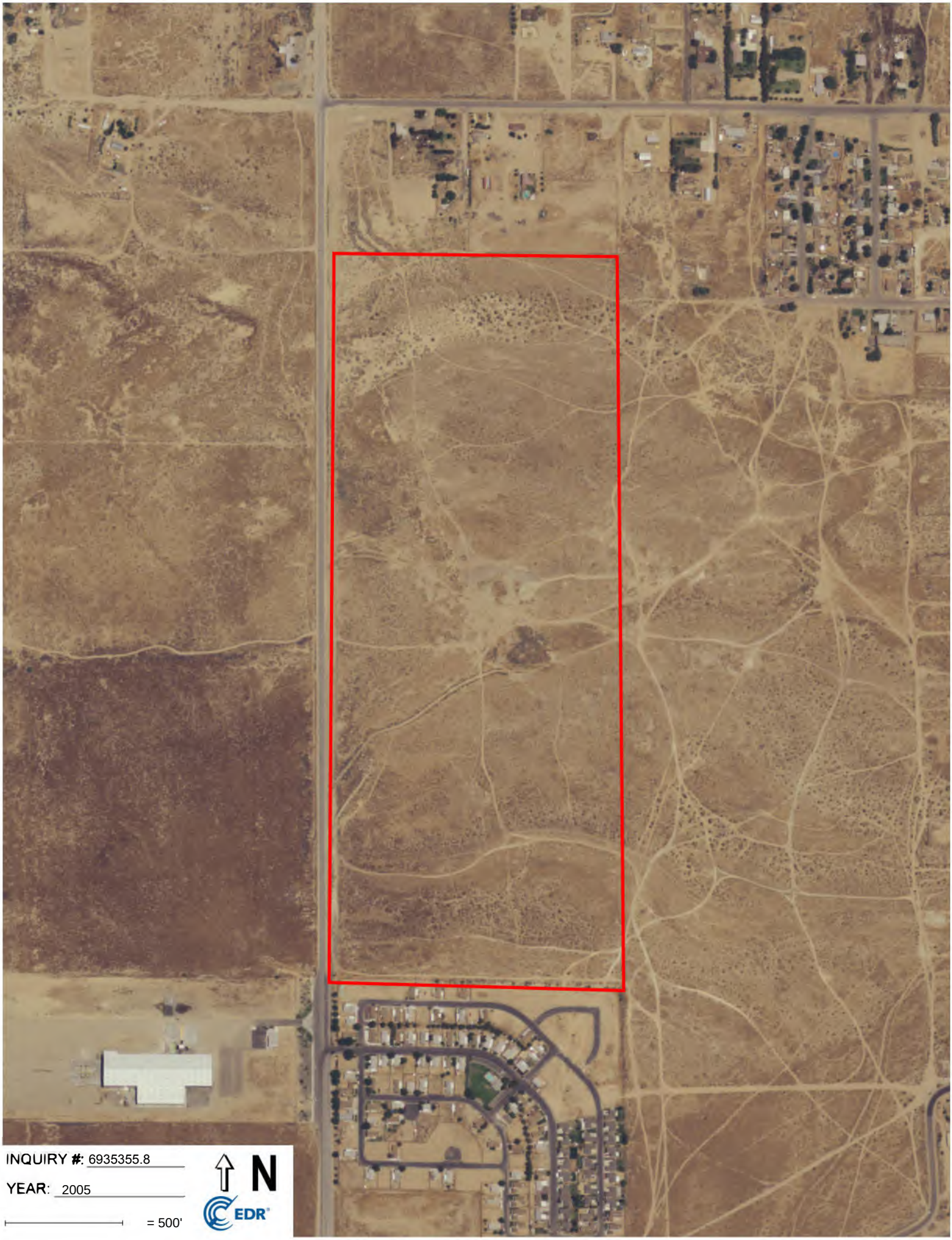
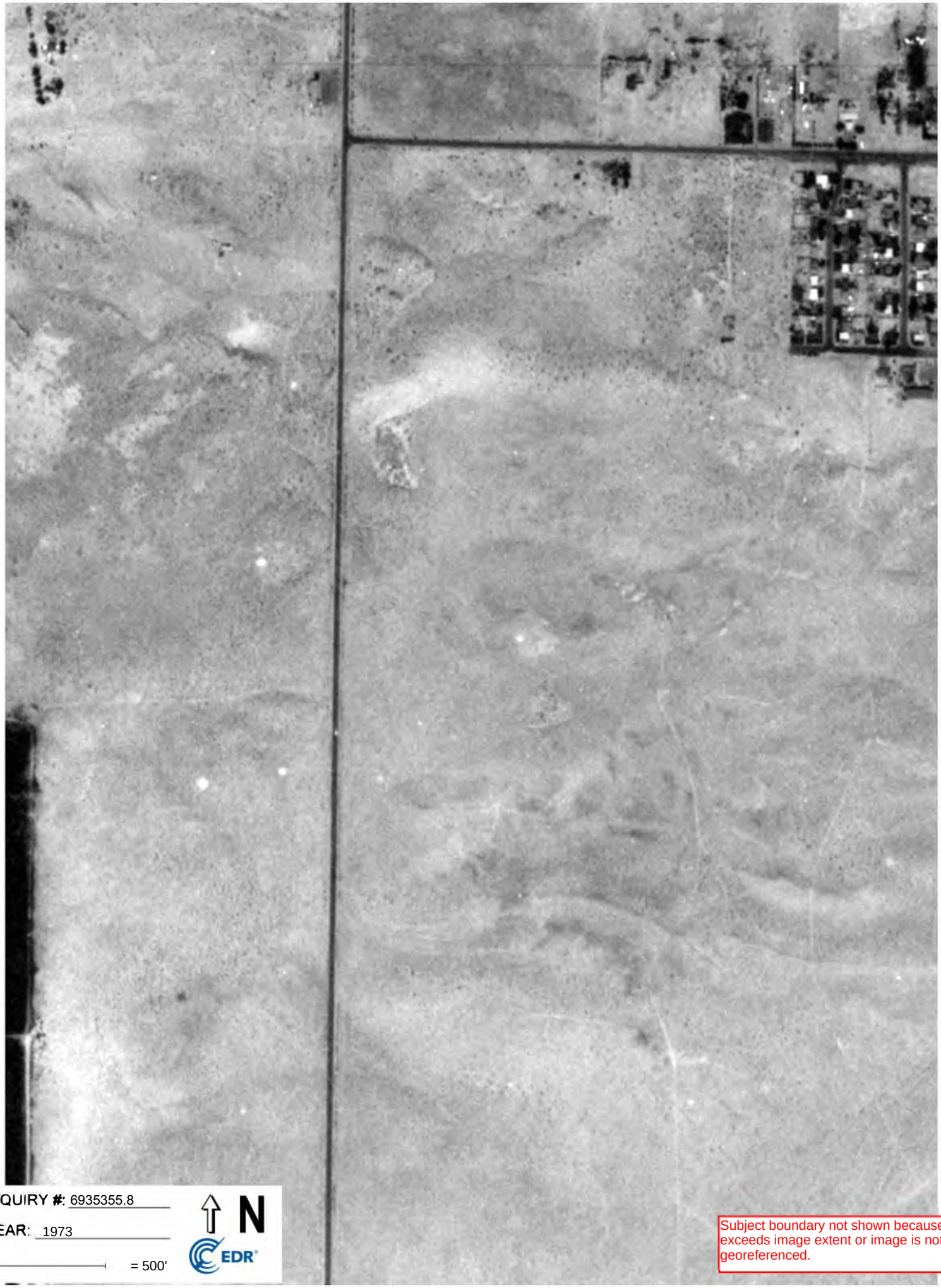
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 6935355.8
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 6935355.8
YEAR: 1984
= 500'
N
EDR



INQUIRY #: 6935355.8

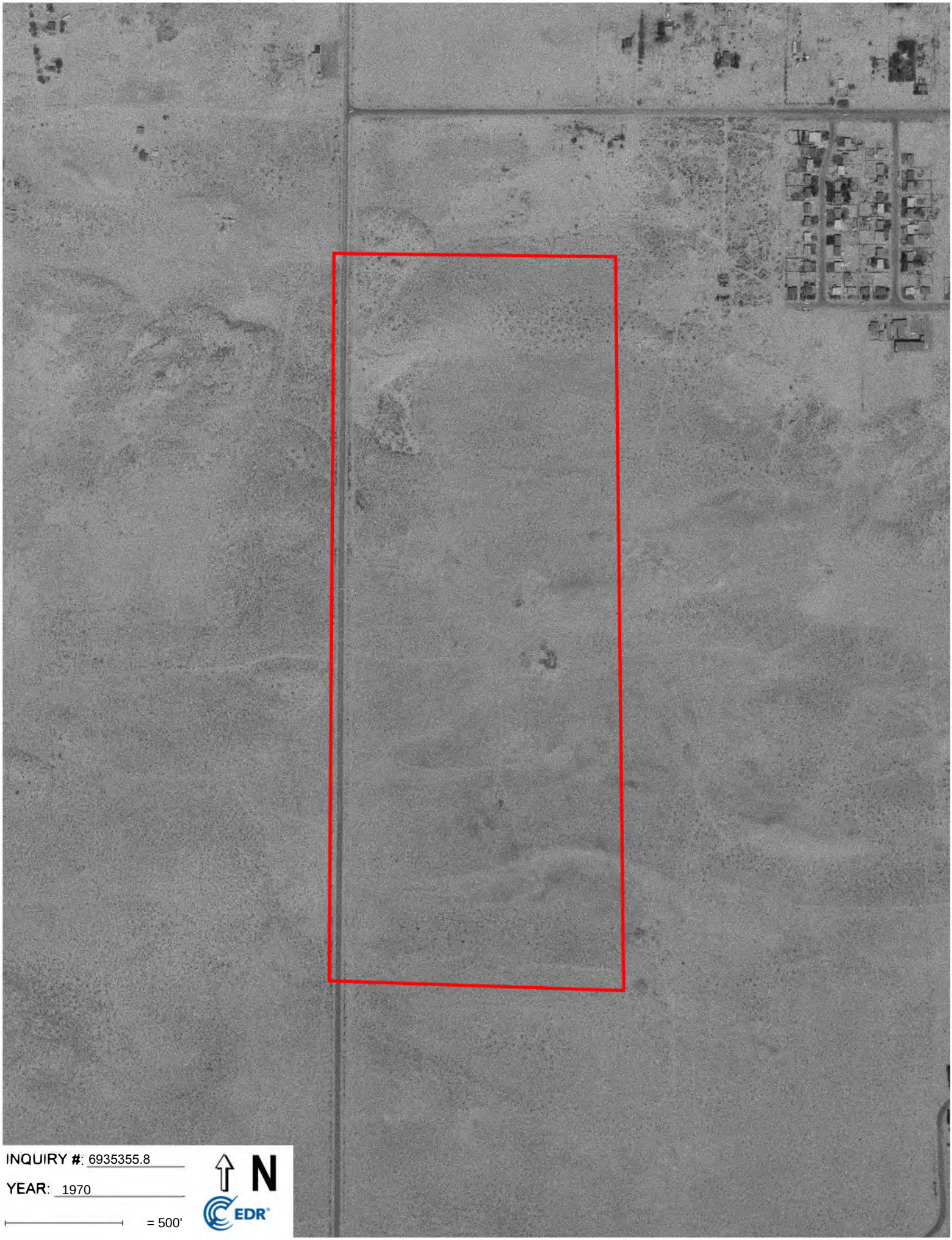
YEAR: 1973

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.



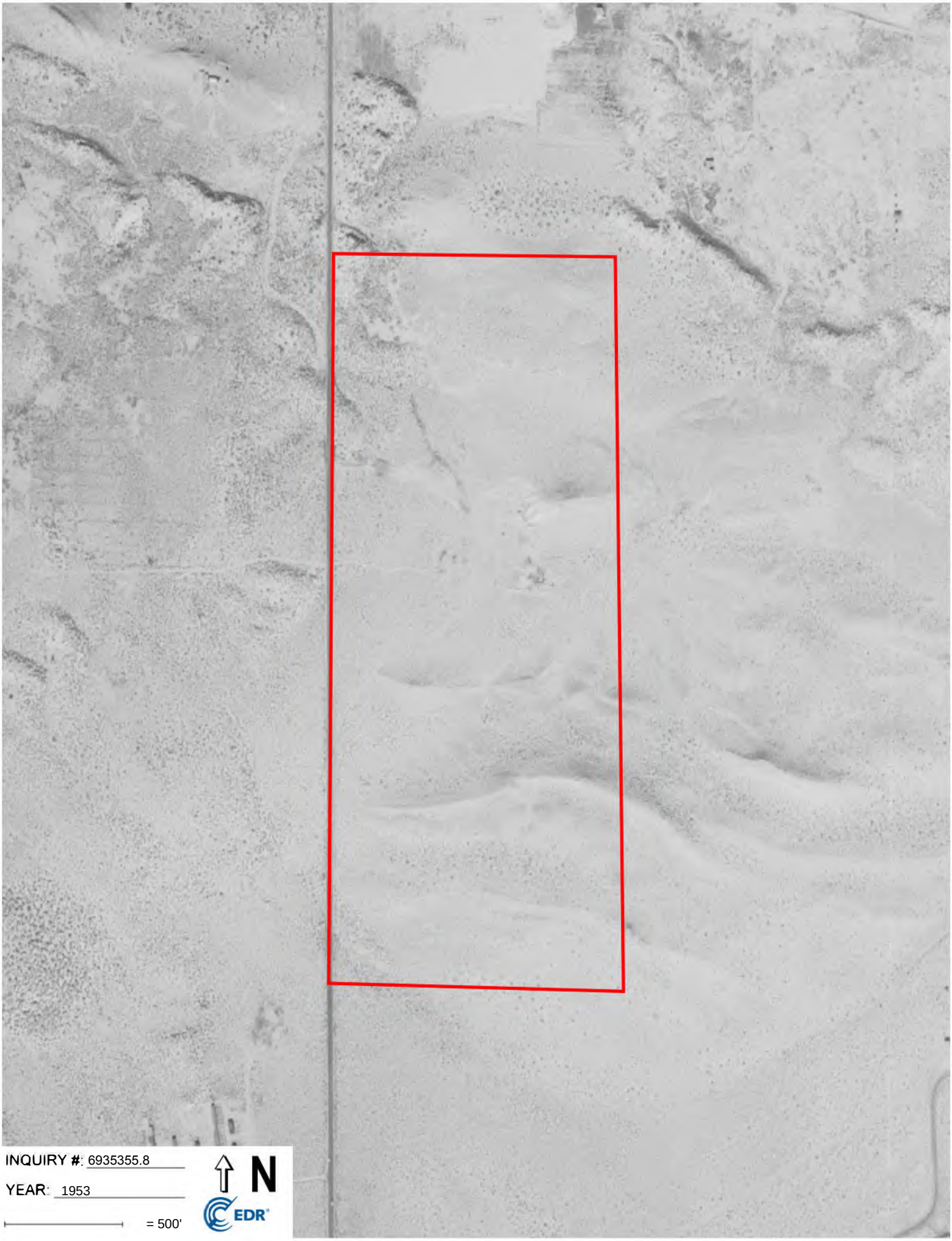
INQUIRY #: 6935355.8

YEAR: 1970

= 500'

N

EDR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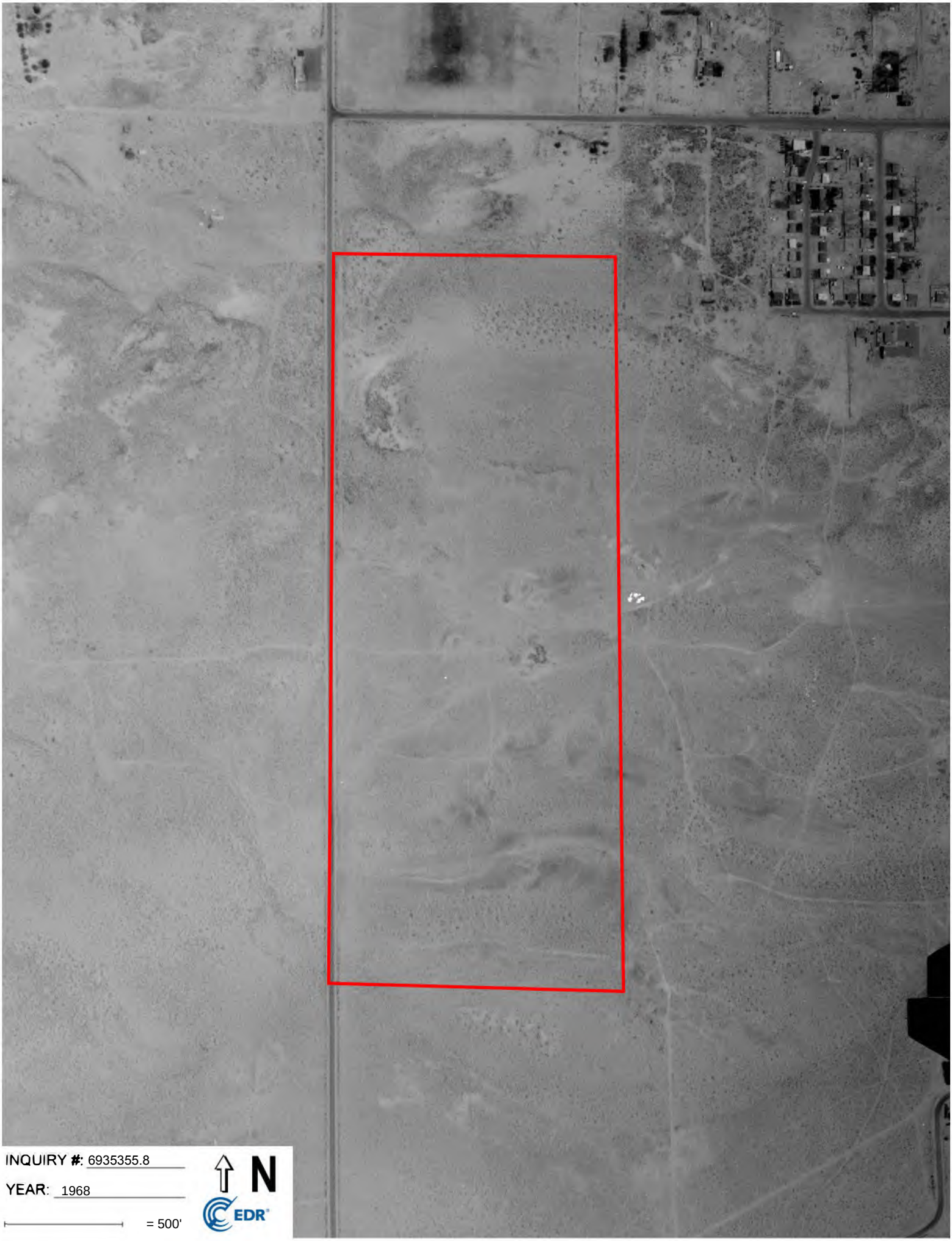
YEAR: 1953
= 500'
N
EDR


INQUIRY #: 6935355.8
YEAR: 1968
= 500'
N
EDR

INQUIRY #: 6935355.8

YEAR: 1964

= 500'

N

EDR

River West - Barstow
LENWOOD RD
Barstow, CA 92311

Inquiry Number: 6935355.3
April 11, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

04/11/22

Site Name:

River West - Barstow
LENWOOD RD
Barstow, CA 92311
EDR Inquiry # 6935355.3

Client Name:

MooreTwining Associates, Inc.
2527 Fresno Street
Fresno, CA 93721
Contact: Sara Bloom

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # C829-4101-9E04

PO # 0189-22

Project River West - Barsto

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: C829-4101-9E04

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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INQUIRY #: 6935355.8
YEAR: 1959
= 500'
N
EDR

River West - Barstow
LENWOOD RD
Barstow, CA 92311

Inquiry Number: 6935355.4
April 11, 2022

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

04/11/22

Site Name:	Client Name:
River West - Barstow	MooreTwining Associates, Inc.
LENWOOD RD	2527 Fresno Street
Barstow, CA 92311	Fresno, CA 93721
EDR Inquiry # 6935355.4	Contact: Sara Bloom

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Search Results:

P.O.# 0189-22

Project: River West - Barsto

Coordinates:

Latitude:	34.88696 34° 53' 13" North
Longitude:	-117.115601 -117° 6' 56" West
UTM Zone:	Zone 11 North
UTM X Meters:	489436.73
UTM Y Meters:	3860513.57
Elevation:	2216.02' above sea level

Maps Provided:

2018	1932
2015	
2012	
1993	
1984	
1971	
1956	
1934	

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Topo Sheet Key

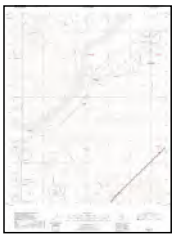
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2018 Source Sheets

Barstow
2018
7.5-minute, 24000

Hinkley
2018
7.5-minute, 24000

Barstow SE
2018
7.5-minute, 24000



Hodge
2018
7.5-minute, 24000

2015 Source Sheets

Barstow
2015
7.5-minute, 24000

Hinkley
2015
7.5-minute, 24000

Barstow SE
2015
7.5-minute, 24000

Hodge
2015
7.5-minute, 24000

2012 Source Sheets

Barstow
2012
7.5-minute, 24000

Hinkley
2012
7.5-minute, 24000

Barstow SE
2012
7.5-minute, 24000

Hodge
2012
7.5-minute, 24000

1993 Source Sheets

Barstow SE
1993
7.5-minute, 24000
Aerial Photo Revised 1989

Barstow
1993
7.5-minute, 24000
Aerial Photo Revised 1989

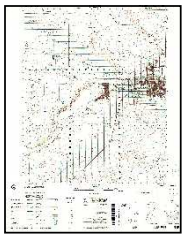
Hinkley
1993
7.5-minute, 24000
Aerial Photo Revised 1989

Hodge
1993
7.5-minute, 24000
Aerial Photo Revised 1989

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1984 Source Sheets



BARSTOW
1984
15-minute, 50000

1971 Source Sheets

Barstow
1971
7.5-minute, 24000
Aerial Photo Revised 1970

Hodge
1971
7.5-minute, 24000
Aerial Photo Revised 1970

Barstow SE
1971
7.5-minute, 24000
Aerial Photo Revised 1970

Hinkley
1971
7.5-minute, 24000
Aerial Photo Revised 1970

1956 Source Sheets

Barstow
1956
15-minute, 62500
Aerial Photo Revised 1952

1934 Source Sheets

Barstow
1934
30-minute, 125000

Topo Sheet Key

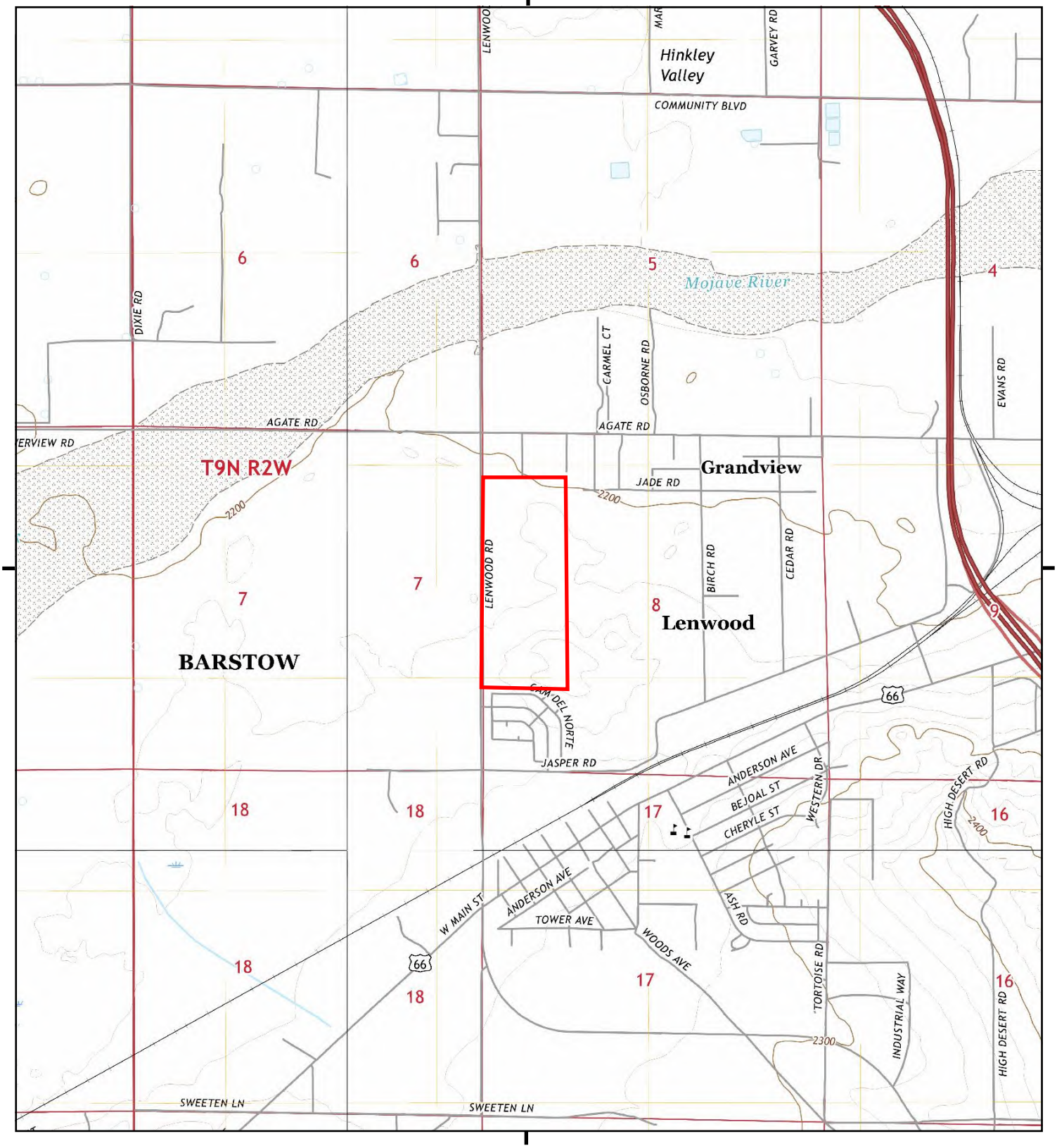
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1932 Source Sheets

Barstow
1932
30-minute, 125000

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

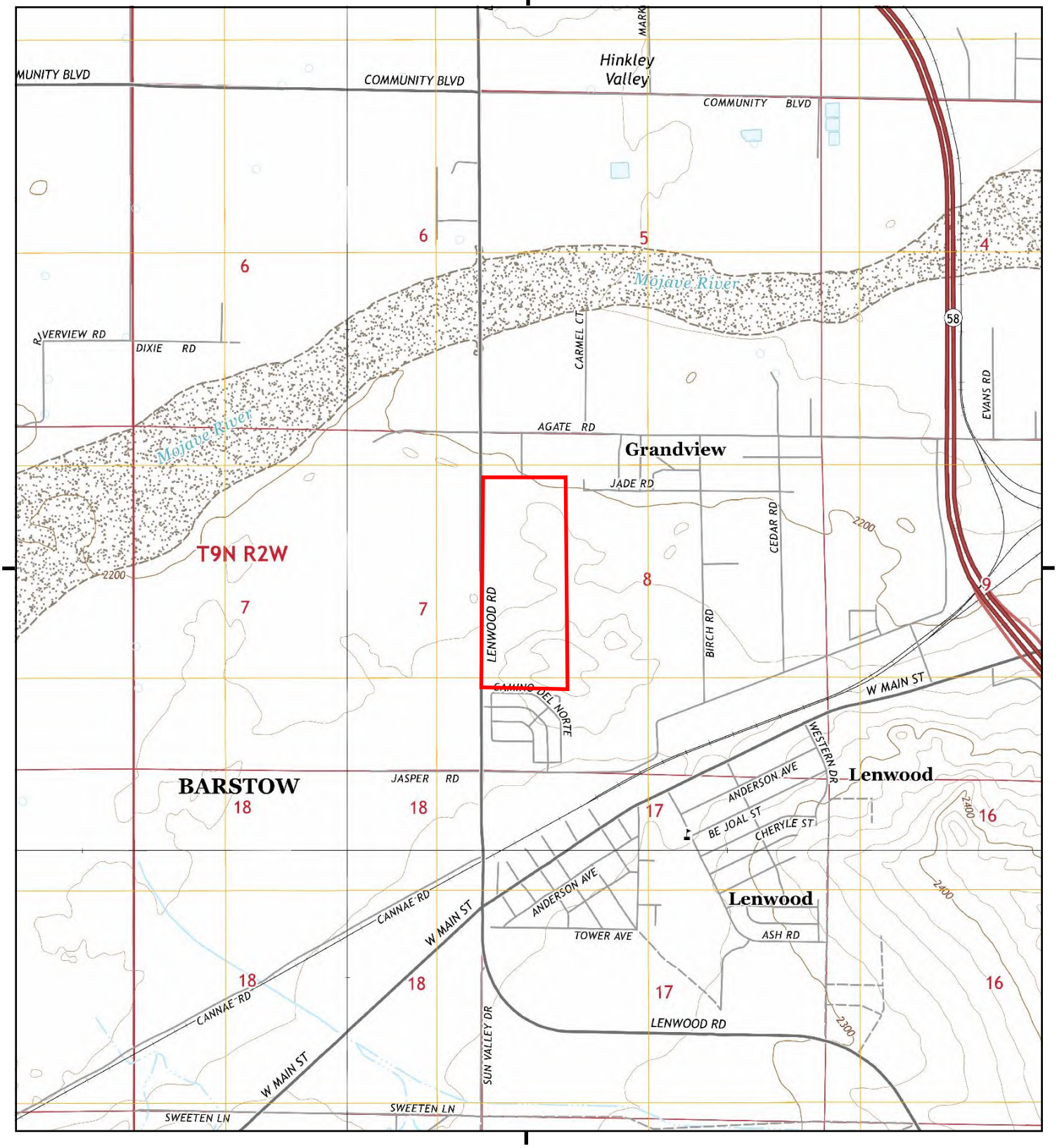
TP, Barstow, 2018, 7.5-minute
SE, Barstow SE, 2018, 7.5-minute
SW, Hodge, 2018, 7.5-minute
NW, Hinkley, 2018, 7.5-minute

SITE NAME: River West - Barstow
ADDRESS: LENWOOD RD
Barstow, CA 92311
CLIENT: MooreTwining Associates, Inc.

N

Historical Topo Map

2015



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0 Miles 0.25 0.5 1 1.5

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W E
SW S SE

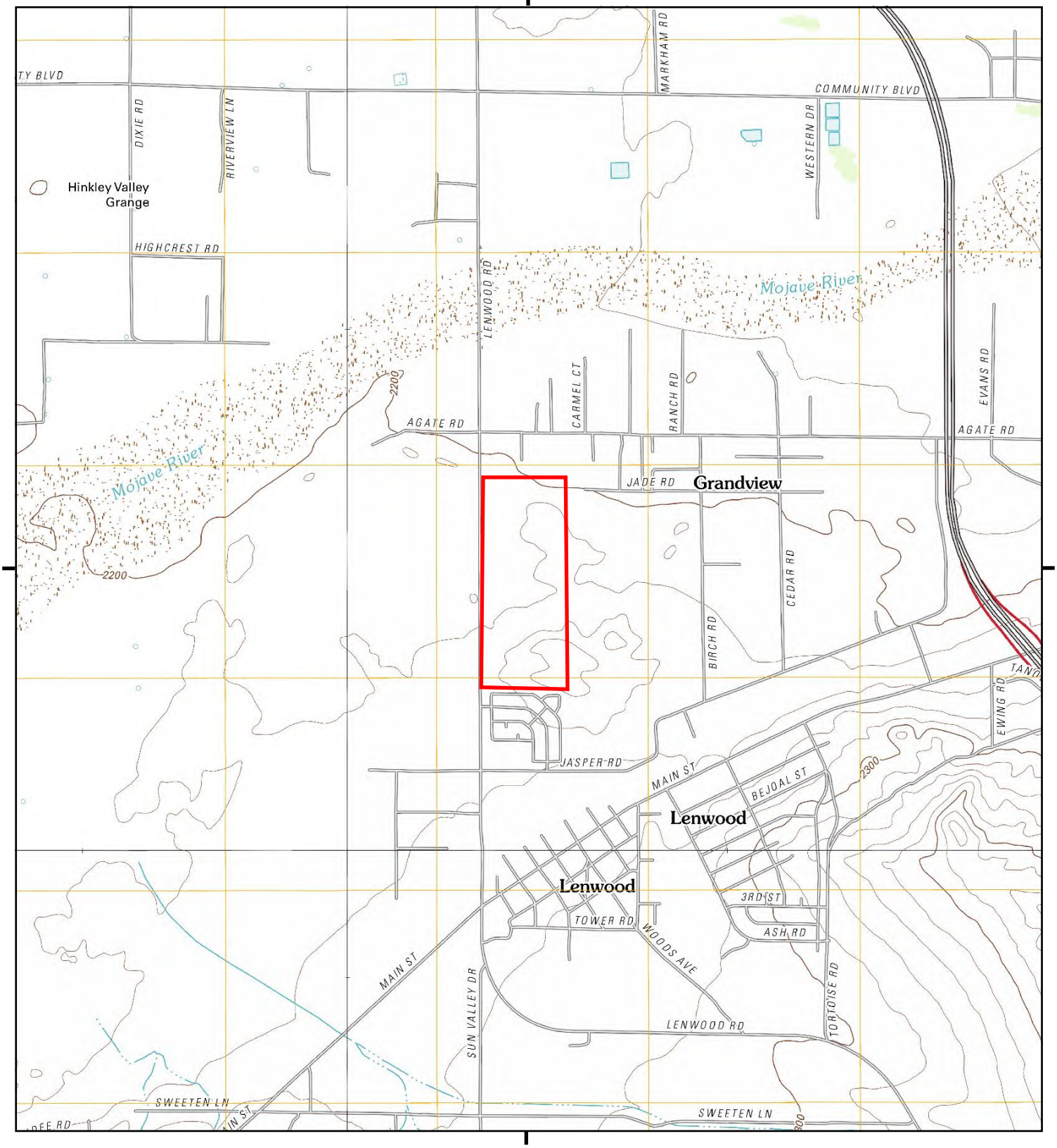
TP, Barstow, 2015, 7.5-minute
SE, Barstow SE, 2015, 7.5-minute
SW, Hodge, 2015, 7.5-minute
NW, Hinkley, 2015, 7.5-minute

SITE NAME: River West - Barstow
ADDRESS: LENWOOD RD
Barstow, CA 92311
CLIENT: MooreTwining Associates, Inc.

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

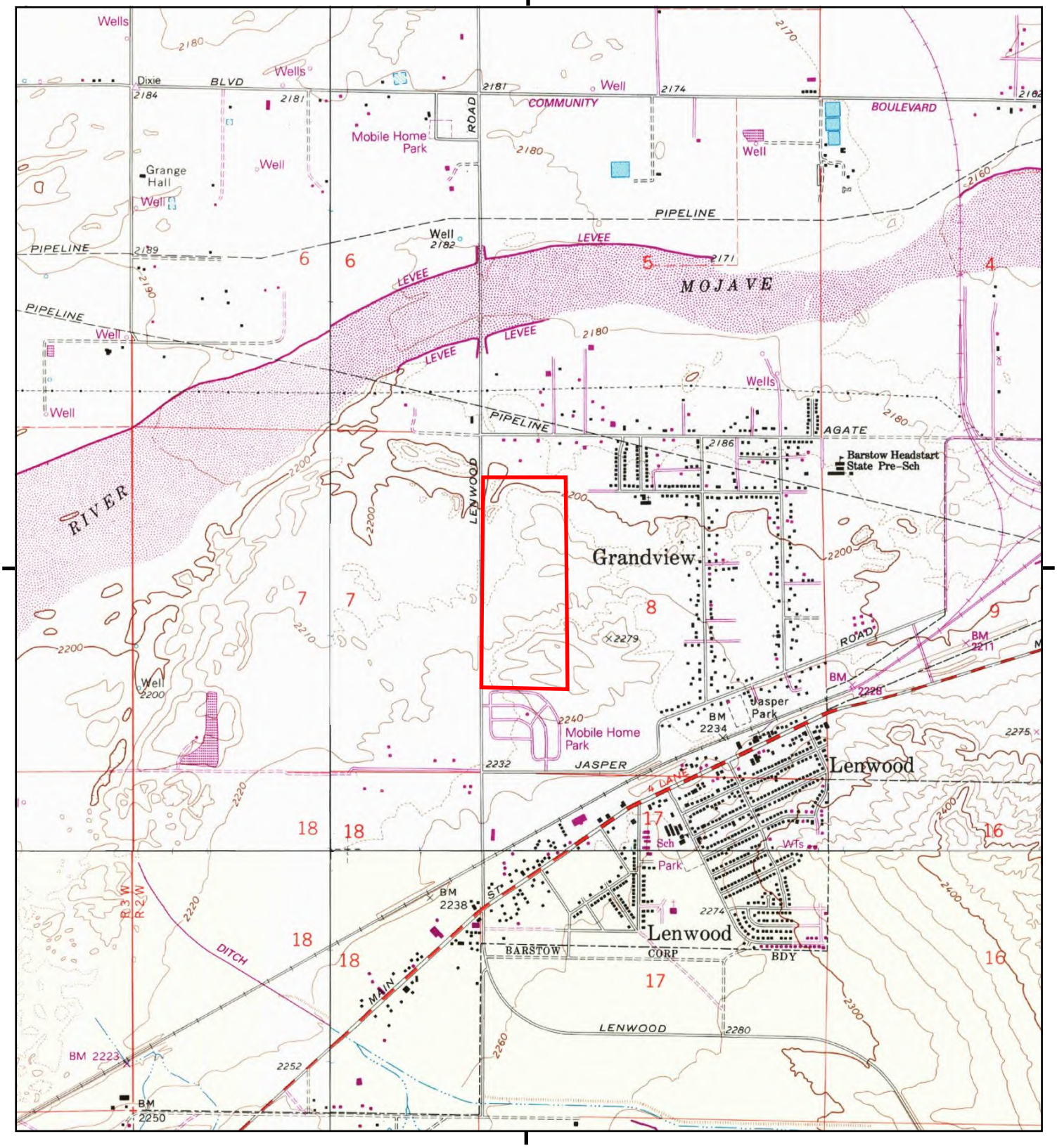
TP, Barstow, 2012, 7.5-minute
SE, Barstow SE, 2012, 7.5-minute
SW, Hodge, 2012, 7.5-minute
NW, Hinkley, 2012, 7.5-minute

SITE NAME: River West - Barstow
ADDRESS: LENWOOD RD
Barstow, CA 92311
CLIENT: MooreTwining Associates, Inc.

N

Historical Topo Map

1993



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

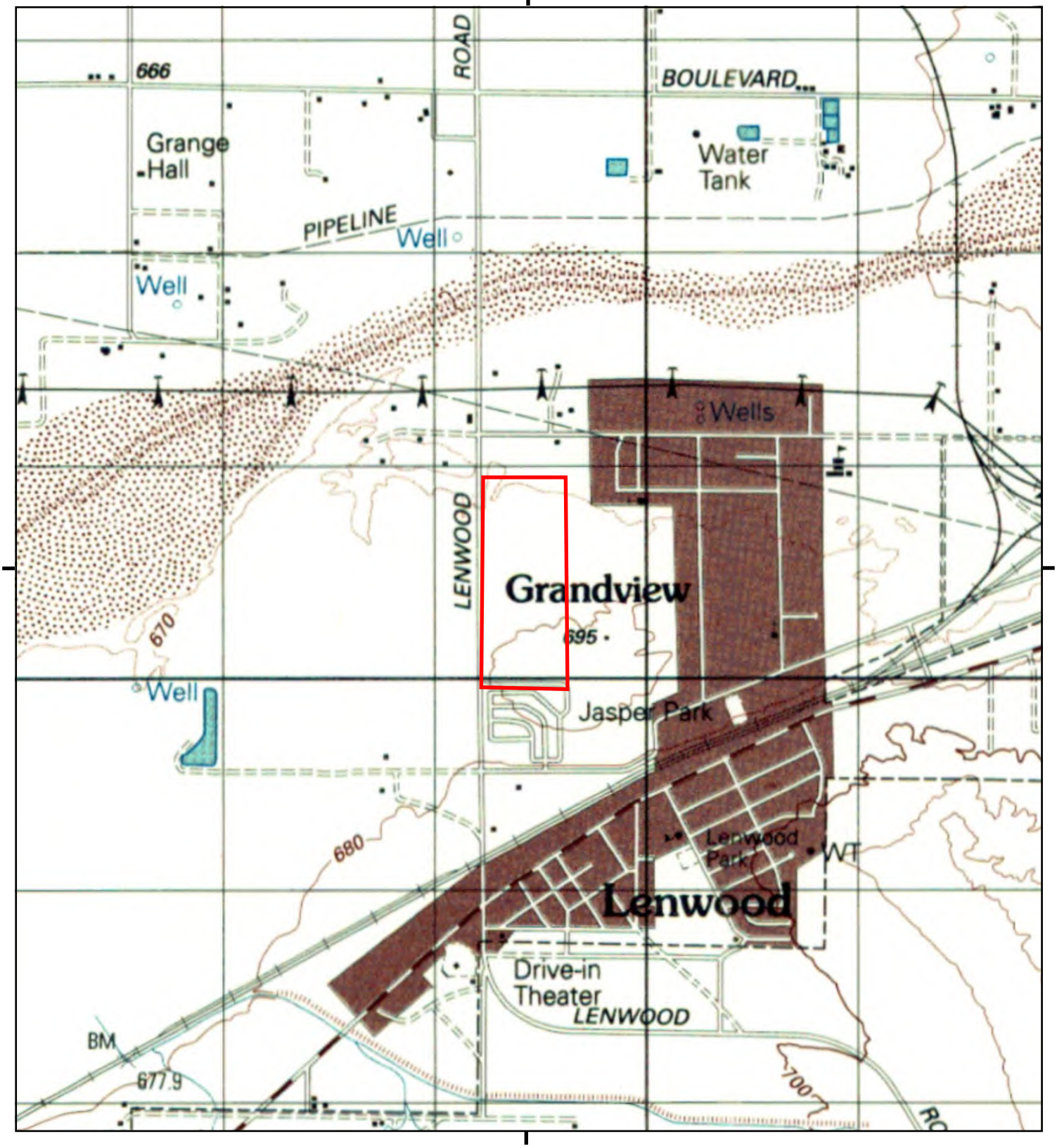
TP, Barstow, 1993, 7.5-minute
SE, Barstow SE, 1993, 7.5-minute
SW, Hodge, 1993, 7.5-minute
NW, Hinkley, 1993, 7.5-minute

SITE NAME: River West - Barstow
ADDRESS: LENWOOD RD
Barstow, CA 92311
CLIENT: MooreTwining Associates, Inc.

N

Historical Topo Map

1984



This report includes information from the following map sheet(s).

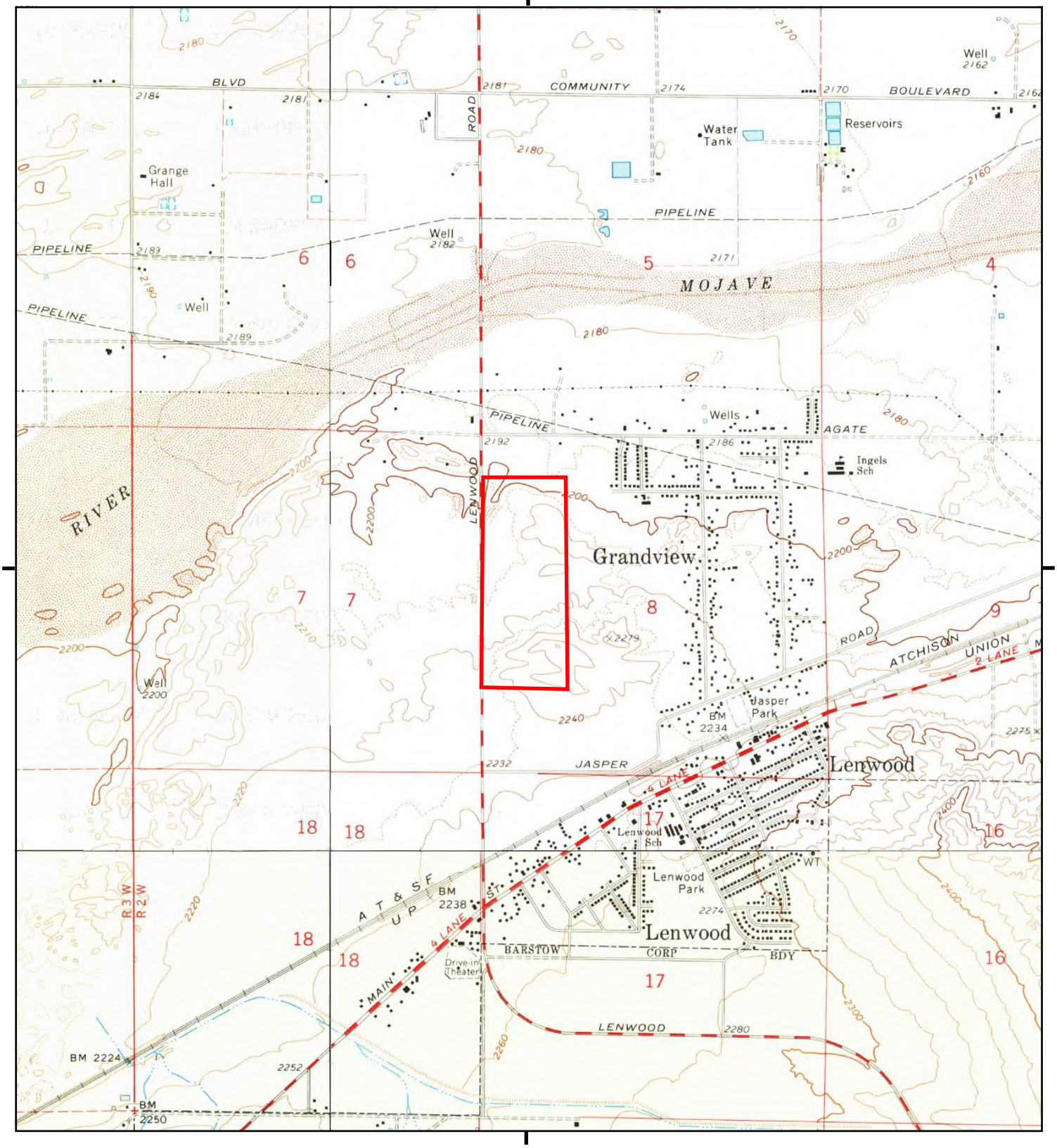
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, BARSTOW, 1984, 15-minute

SITE NAME: River West - Barstow
ADDRESS: LENWOOD RD
Barstow, CA 92311
CLIENT: MooreTwining Associates, Inc.

N



This report includes information from the following map sheet(s).

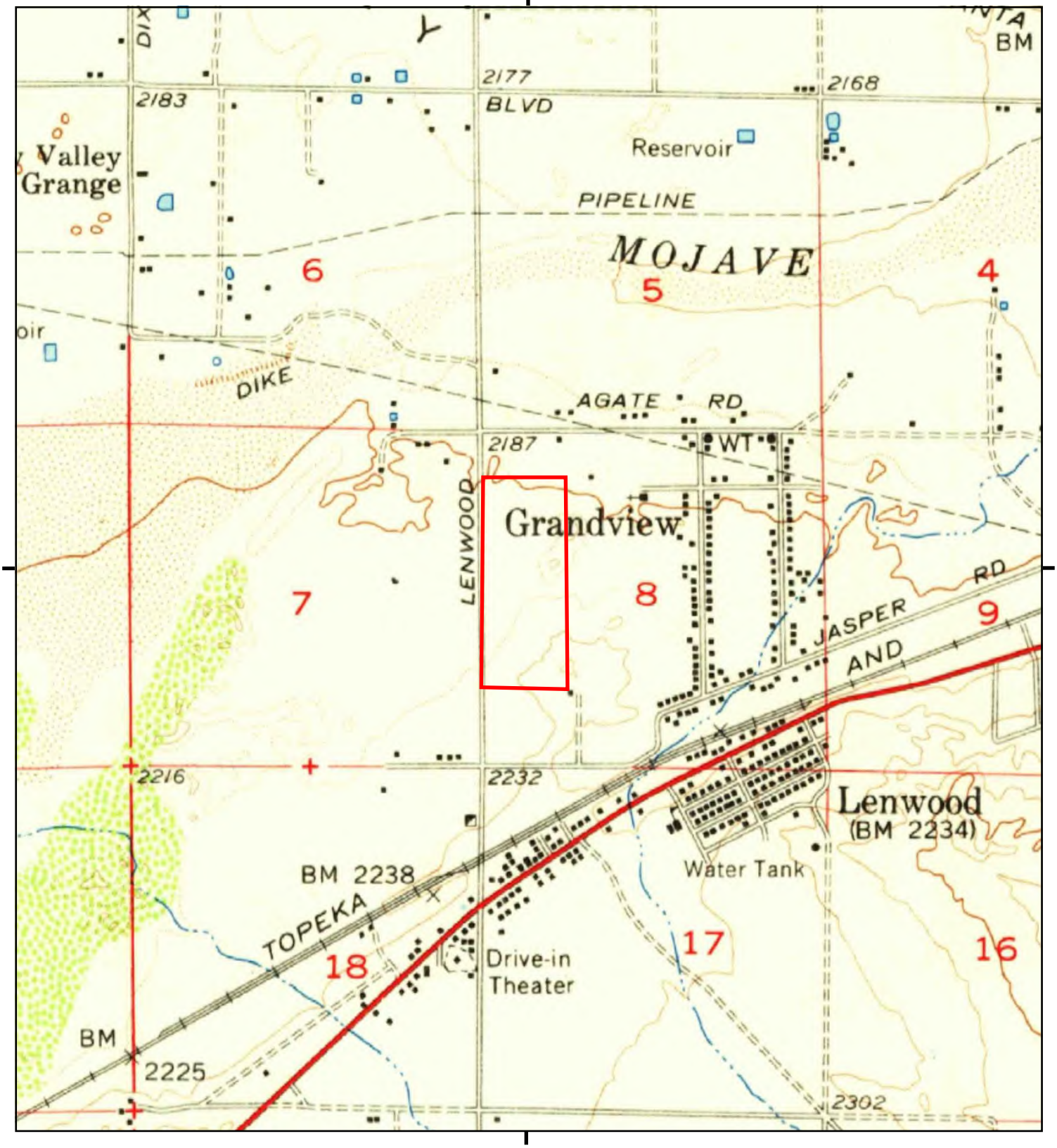
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Barstow, 1971, 7.5-minute
SE, Barstow SE, 1971, 7.5-minute
SW, Hodge, 1971, 7.5-minute
NW, Hinkley, 1971, 7.5-minute

SITE NAME: River West - Barstow
ADDRESS: LENWOOD RD
Barstow, CA 92311
CLIENT: MooreTwining Associates, Inc.

N



This report includes information from the following map sheet(s).

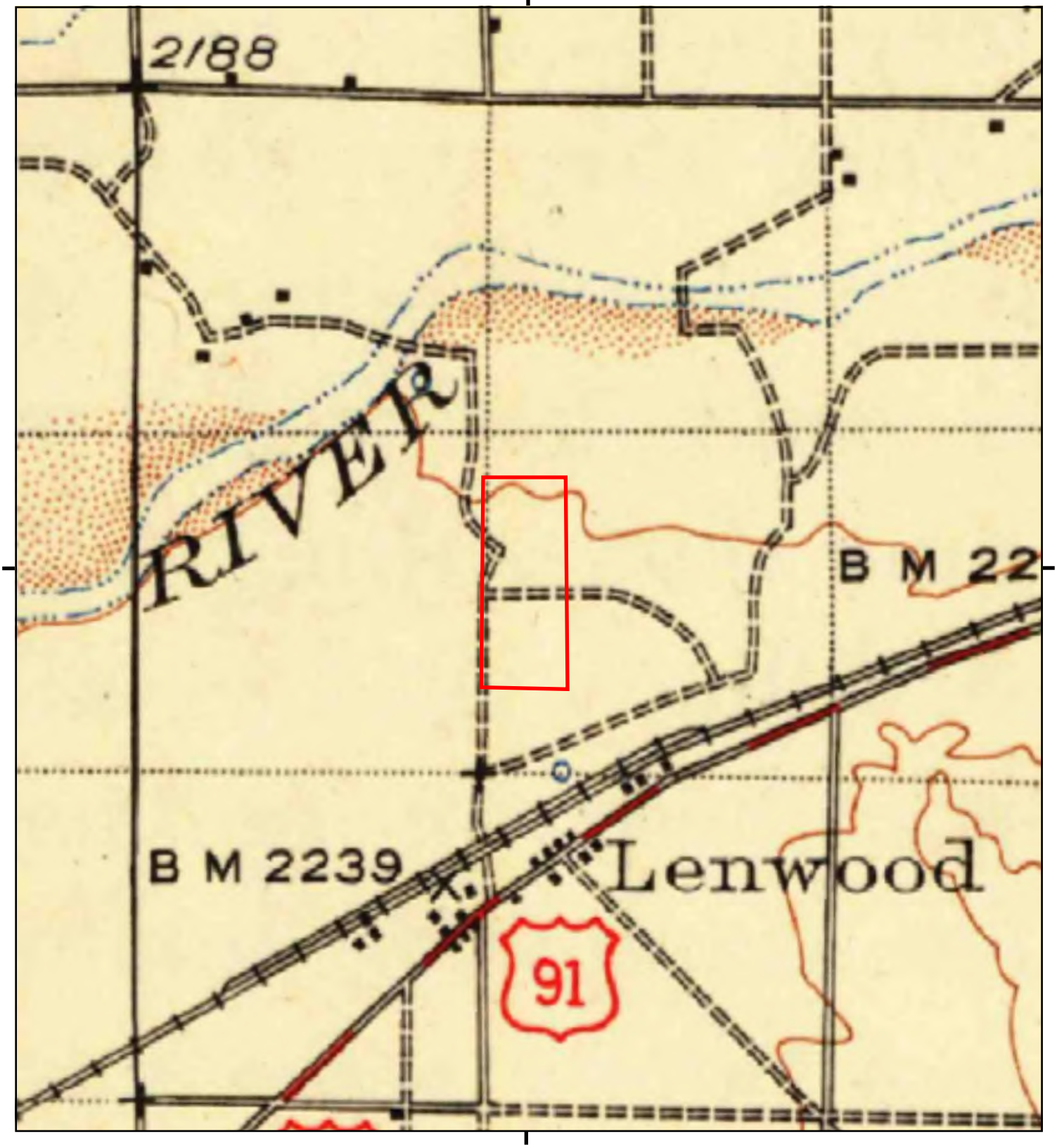
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Barstow, 1956, 15-minute

SITE NAME: River West - Barstow
ADDRESS: LENWOOD RD
Barstow, CA 92311
CLIENT: MooreTwining Associates, Inc.

N



This report includes information from the following map sheet(s).

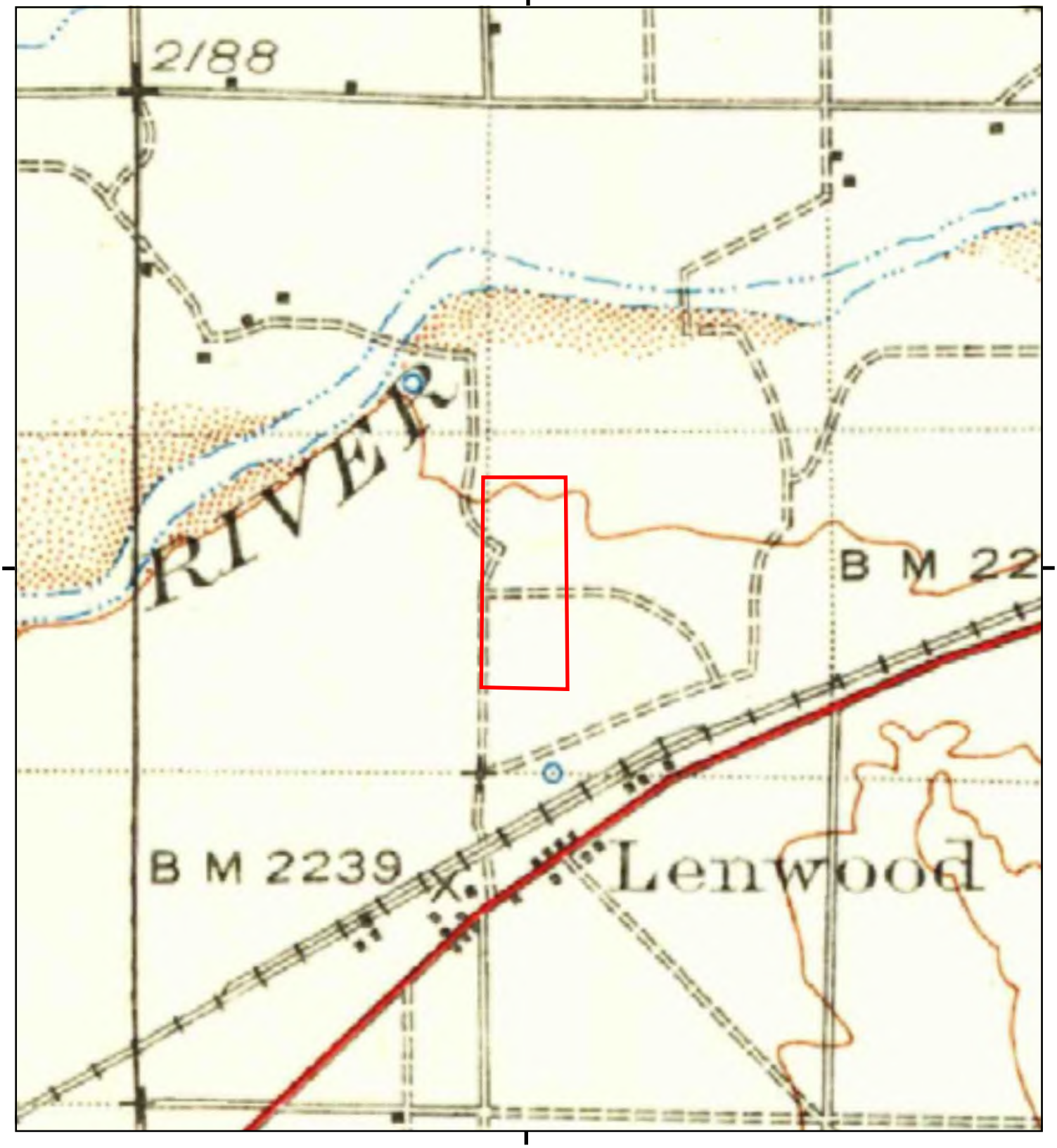
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Barstow, 1934, 30-minute

SITE NAME: River West - Barstow
ADDRESS: LENWOOD RD
Barstow, CA 92311
CLIENT: MooreTwining Associates, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Barstow, 1932, 30-minute

SITE NAME: River West - Barstow
ADDRESS: LENWOOD RD
Barstow, CA 92311
CLIENT: MooreTwining Associates, Inc.

N

RIVERWEST - BARSTOW
LENWOOD RD
BARSTOW, CA 92311

Inquiry Number: 07005750.1R
JUNE 10, 2022

The EDR 1940 Chain of Title

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Chain of Title

The EDR Chain of Title Report tracks a line of successive owners from the present back to 1940 of a particular parcel of property, linked together by recorded transactions which pass title. Available nationwide, this report provides a summary of a property's ownership history and is a valuable source for determining the prior uses of a property.

A network of professional abstractors following established procedures, uses client supplied address information to locate:

• Historical Chain of Title research

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Chain of Title

TARGET PROPERTY INFORMATION

ADDRESS

RIVERWEST - BARSTOW

LENWOOD RD

BARSTOW, CA 92311

RESEARCH SOURCE

SOURCE 1: SAN BERNARDINO COUNTY RECORDER'S OFFICE

SOURCE 2: SAN BERNARDINO COUNTY ASSESSOR'S OFFICE

EXAMINER'S NOTE: PUBLIC RECORDS OF SAN BERNARDINO COUNTY, CA WERE SEARCHED FROM JANUARY 1, 1940 TO MAY 26, 2022, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED.

PROPERTY DESCRIPTION

CURRENT OWNER:	KEVIN LEE QUAID, AS TRUSTEE, OR ANY SUCCESSOR TRUSTEE, KEVIN LEE QUAID FAMILY TRUST
LEGAL DESCRIPTION:	PARCEL MAP 8113 PARCEL 3
PROPERTY IDENTIFIERS:	0497-142-03-0000
GENERAL COMMENTS:	NA

HISTORICAL CHAIN OF TITLE

SEE EXHIBIT "A"

MISCELLANEOUS

SEE EXHIBIT "B"

EDR Chain of Title

CHAIN OF TITLE

EXHIBIT "A"

EDR Chain of Title

HISTORICAL CHAIN OF TITLE

PARCEL 0497-142-03-0000

CHAIN 1

TYPE OF DEED:	QUIT CLAIM DEED
TITLE IS VESTED IN:	KEVIN LEE QUAID, AS TRUSTEE, OR ANY SUCCESSOR TRUSTEE, KEVIN LEE QUAID FAMILY TRUST
TITLE RECEIVED FROM:	KEVIN LEE QUAID, AN UNMARRIED MAN
DATE EXECUTED:	02/15/2017
DATE RECORDED:	02/15/2017
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2017-0066666
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 2

TYPE OF DEED:	TRUST TRANSFER DEED
TITLE IS VESTED IN:	KEVIN LEE QUAID, AN UNMARRIED MAN
TITLE RECEIVED FROM:	KEVIN LEE QUAID, AS SUCCESSOR TRUSTEE, OR ANY SUCCESSOR TRUSTEE, SUE KINT FAMILY TRUSTV
DATE EXECUTED:	02/15/2017
DATE RECORDED:	02/15/2017
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2017-0066665
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 3

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT AS TRUSTEE OF THE SUE KINT FAMILY TRUST
TITLE RECEIVED FROM:	GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST, HIS 1/2 INTEREST
DATE EXECUTED:	03/28/2014
DATE RECORDED:	03/31/2014
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2014-0112838
DOCKET:	NA
LAND RECORD COMMENTS:	AFFIDAVIT - DEATH OF TRUSTEE, R. 08/08/2014, AS INSTRUMENT NO. 2014-0289379; SUE KINT, DECEASED 06/19/2014 AND KEVIN LEE QUAID NAMED SUCCESSOR TRUSTEE

CHAIN 4

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT AS TRUSTEE OF THE SUE KINT FAMILY TRUST, AND GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST, EACH AS TO AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	DESERT WIND, LLC
DATE EXECUTED:	05/22/2008
DATE RECORDED:	09/24/2008
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2008-0428820
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 5

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	DESERT WIND, LLC
TITLE RECEIVED FROM:	GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST, AND SUE KINT AS TRUSTEE OF THE SUE KINT FAMILY TRUST
DATE EXECUTED:	11/04/2005
DATE RECORDED:	02/06/2006
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2006-0085950
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 6

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT, AS TRUSTEE, OR ANY SUCCESSOR TRUSTEE, U/DD/T, NAMED SUE KINT FAMILY TRUST, CREATED BY SUE KINT, TRUSTOR, AS TO AN UNDIVIDED 50% OWNNERSHIP
TITLE RECEIVED FROM:	SUE KINT, A MARRIED WOMAN, AS TO AN UNDIVIDED 50% OWNERSHIP
DATE EXECUTED:	12/19/1998
DATE RECORDED:	12/31/1998
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	19980560196
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 7

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST
TITLE RECEIVED FROM:	GEORGE KUBOTA, A SINGLE MAN, AS TO AN UNDIVIDED 1/2 INTEREST
DATE EXECUTED:	08/19/1992
DATE RECORDED:	08/26/1992
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	92-354390
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 8

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	GEORGE KUBOTA, A SINGLE MAN, AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	ORANGE PROPERTY MANAGMENT, INC.
DATE EXECUTED:	09/25/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	90-134591
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 9

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	ORANGE PROPERTY MANAGEMENT, INC., AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	LE-LUAN CHAO
DATE EXECUTED:	09/27/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-363655
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 10

TYPE OF DEED:	QUIT CLAIM DEED
TITLE IS VESTED IN:	SUE KINT, A MARRIED WOMAN
TITLE RECEIVED FROM:	BRADLEY A. KINT, HUSBAND OF THE GRANTEE HEREIN
DATE EXECUTED:	09/29/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-363654
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 11

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT, A MARRIED WOMAN, AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	LE-LUAN CHAO
DATE EXECUTED:	09/27/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-363653
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 12

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	LE-LUAN CHAO, A SINGLE WOMAN
TITLE RECEIVED FROM:	NORMAN J. ROWAN AND DOLORES E. ROWAN, H & W
DATE EXECUTED:	09/01/1989
DATE RECORDED:	09/26/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-355970
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 13

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	NORMAN J. ROWAN AND DOLORES E. ROWAN, H & W
TITLE RECEIVED FROM:	WILLAM M. CLOVER AND BARBARA R. CLOVER, AS TRUSTEES OF THE INTER-VIVOS TRUST AGREEMENT
DATE EXECUTED:	06/21/1979
DATE RECORDED:	09/25/1979
BOOK:	9778
PAGE:	580
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NW 1/4 NW 1/4, SEC 8, T9N, R2W

CHAIN 14

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	WILLAM M. CLOVER AND BARBARA R. CLOVER, H & W
TITLE RECEIVED FROM:	CLARENCE A. HUNT AND MARIE ANN HUNT, H & W
DATE EXECUTED:	06/08/1967
DATE RECORDED:	07/07/1967
BOOK:	6851
PAGE:	306
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NW 1/4 NW 1/4, SEC 8, T9N, R2W

CHAIN 15

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	CLARENCE A. HUNT AND MARIE ANN HUNT, H & W
TITLE RECEIVED FROM:	KENNETH L. LUTZ AND MARJORIE M. LUTZ, H & W
DATE EXECUTED:	06/14/1962
DATE RECORDED:	07/30/1962
BOOK:	5742
PAGE:	6
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 16

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	KENNETH L. LUTZ AND MARJORIE M. LUTZ, H & W
TITLE RECEIVED FROM:	CLARENCE A. HUNT AND MARIE ANN HUNT, H & W
DATE EXECUTED:	07/21/1958
DATE RECORDED:	09/15/1958
BOOK:	4603
PAGE:	224
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 17

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	GALE H. PIKE, A SINGLE MAN, THELMA H. PIKE, A WIDOW AND LELAND J. ELLIS, A SINGLE MAN
TITLE RECEIVED FROM:	CHARLES RONALD ROUSE AND ELLEN B. ROUSE, H & W
DATE EXECUTED:	02/20/1956
DATE RECORDED:	03/13/1956
BOOK:	3883
PAGE:	288
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 18

TYPE OF DEED:	PATENT
TITLE IS VESTED IN:	CHARLES RONALD ROUSE
TITLE RECEIVED FROM:	THE UNITED STATES OF AMERICA
DATE EXECUTED:	08/03/1953
DATE RECORDED:	03/25/1955
BOOK:	3603
PAGE:	476
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NO ADDITIONAL DEEDS FOUND

EDR Chain of Title

MISCELLANEOUS

EXHIBIT "B"

EDR Chain of Title

MISCELLANEOUS

COMMENTS: NONE IDENTIFIED.

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL DOCUMENT TO:

NAME KevinLee Quaid

STREET ADDRESS 8116 Whitewater Drive

CITY, STATE & ZIP CODE Fullerton, CA 92833

Recorded In Official Records, County of San Bernardino

BOB DUTTON
ASSESSOR – RECORDER – CLERK

2/15/2017
11:08 AM
ALS
SAN

R Regular Mail

Doc#: 2017–0066666

Titles: 1 **Pages: 4**

Fees	34.00
Taxes	0.00
Other	6.00
PAID	$40.00

SPACE ABOVE FOR RECORDER'S USE ONLY

Quitclaim Deed

Title of Document

THIS AREA FOR RECORDER'S USE ONLY

THIS COVER SHEET ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION
($3.00 Additional Recording Fee Applies)

WHEN RECORDED MAIL DEED
AND TAX STATEMENT TO:
KEVIN LEE QUAID
806 Whitewater Drive
Fullerton, California 92833

---

clt # 98-07-0058

QUITCLAIM DEED

The undersigned grantor(s) declare(s) Documentary transfer tax is $ -0- *
The land tenements or realty is located in:
Unincorporated area: San Bernardino [ ] City of

FOR NO CONSIDERATION, KEVIN LEE QUAID, an Unmarried Man, hereby QUITCLAIM(s) to KEVIN LEE QUAID, as Trustee, or any successor Trustee, under that certain Declaration of Trust named KEVIN LEE QUAID FAMILY TRUST, created by KEVIN LEE QUAID, as Trustor, dated September 11, 1998, the following described real property in the County of San Bernardino, State of California:

SEE ATTACHED EXHIBIT "A"

COMMONLY KNOWN AS: No Situs
ASSESSOR'S PARCEL NO.: 0497-142-03, 0497-142-04, 0497-142-14 and 0497-142-15

*** THIS CONVEYANCE TRANSFERS AN INTEREST INTO A LIVING TRUST, R & T 11930**

Dated: January 24, 2017

KEVIN LEE QUAID

(See Attached Notary Acknowledgement)

California All-Purpose Acknowledgement for Quitclaim Deed

Civil Code §1189

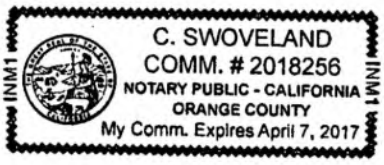
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) SS.
COUNTY OF ORANGE)

On January 24, 2017, before me, C. SWOVELAND, a Notary Public, personally appeared KEVIN LEE QUAID, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official Seal.



Notary Public

EXHIBIT "A"

FOR APN/PARCEL ID(s): 0497-142-03-0-000, 0497-142-04-0-000, 0497-142-14-0-000 and 0497-142-15-0-000

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

PARCEL A:

THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 9 NORTH, RANGE 2 WEST, SAN BERNARDINO MERIDIAN, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

EXCEPTING THEREFROM THE WEST 30 FEET FOR ROAD PURPOSES AS CONDEMNED TO THE COUNTY OF SAN BERNARDINO BY FINAL ORDER OF CONDEMNATION RECORDED NOVEMBER 24, 1986 AS INSTRUMENT NO. 86-355593, OFFICIAL RECORDS.

ALSO EXCEPT ALL URANIUM, THORIUM OR ANY OTHER FISSIONABLE MATERIALS WITH THE RIGHT TO ENTER UPON SAID LAND TO PROSPECT FOR, MINE AND REMOVE THE SAME PURSUANT TO THE PROVISIONS OF THE ACT OF AUGUST 1, 1946 (60 STAT. 755) AS EXCEPTED AND RESERVED IN THE PATENT FROM THE UNITED STATES OF AMERICA TO CHARLES RONALD ROUSE, RECORDED MARCH 28, 1955 IN BOOK 3603, PAGE 476, OFFICIAL RECORDS.

PARCEL B:

THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 9 NORTH, RANGE 2 WEST, SAN BERNARDINO MERIDIAN, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

EXCEPTING THEREFROM THE WEST 30 FEET FOR ROAD PURPOSES AS CONDEMNED TO THE COUNTY OF SAN BERNARDINO BY FINAL ORDER OF CONDEMNATION RECORDED NOVEMBER 24, 1986 AS INSTRUMENT NO. 86-355593 OFFICIAL RECORDS.

ALSO EXCEPT ALL URANIUM, THORIUM OR ANY OTHER FISSIONABLE MATERIALS WITH THE RIGHT TO ENTER UPON SAID LAND TO PROSPECT FOR, MINE AND REMOVE THE SAME PURSUANT TO THE PROVISIONS OF THE ACT OF AUGUST 1, 1946 (60 STAT. 755) AS EXCEPTED AND RESERVED IN THE PATENT FROM THE UNITED STATES OF AMERICA TO CHARLES RONALD ROUSE, RECORDED MARCH 28, 1955 IN BOOK 3603, PAGE 476, OFFICIAL RECORDS.

PARCEL C:

PARCELS 3 AND 4 OF PARCEL MAP NO. 8113, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS SHOWN BY MAP ON FILE IN BOOK 83, PAGES 51 AND 52 OF PARCEL MAPS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

RIVERWEST - BARSTOW
LENWOOD RD
BARSTOW, CA 92311

Inquiry Number: 07005750.1R
JUNE 10, 2022

The EDR 1940 Chain of Title

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Chain of Title

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• Historical Chain of Title research

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EDR Chain of Title

TARGET PROPERTY INFORMATION

ADDRESS

RIVERWEST - BARSTOW

LENWOOD RD

BARSTOW, CA 92311

RESEARCH SOURCE

SOURCE 1: SAN BERNARDINO COUNTY RECORDER'S OFFICE

SOURCE 2: SAN BERNARDINO COUNTY ASSESSOR'S OFFICE

EXAMINER'S NOTE: PUBLIC RECORDS OF SAN BERNARDINO COUNTY, CA WERE SEARCHED FROM JANUARY 1, 1940 TO MAY 26, 2022, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED.

PROPERTY DESCRIPTION

CURRENT OWNER:	KEVIN LEE QUAID, AS TRUSTEE, OR ANY SUCCESSOR TRUSTEE, KEVIN LEE QUAID FAMILY TRUST
LEGAL DESCRIPTION:	PARCEL MAP 8113 PARCEL 4
PROPERTY IDENTIFIERS:	0497-142-04-0000
GENERAL COMMENTS:	NA

HISTORICAL CHAIN OF TITLE

SEE EXHIBIT "A"

MISCELLANEOUS

SEE EXHIBIT "B"

EDR Chain of Title

CHAIN OF TITLE

EXHIBIT "A"

EDR Chain of Title

HISTORICAL CHAIN OF TITLE

PARCEL 0497-142-04-0000

CHAIN 1

TYPE OF DEED:	QUIT CLAIM DEED
TITLE IS VESTED IN:	KEVIN LEE QUAID, AS TRUSTEE, OR ANY SUCCESSOR TRUSTEE, KEVIN LEE QUAID FAMILY TRUST
TITLE RECEIVED FROM:	KEVIN LEE QUAID, AN UNMARRIED MAN
DATE EXECUTED:	02/15/2017
DATE RECORDED:	02/15/2017
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2017-0066666
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 2

TYPE OF DEED:	TRUST TRANSFER DEED
TITLE IS VESTED IN:	KEVIN LEE QUAID, AN UNMARRIED MAN
TITLE RECEIVED FROM:	KEVIN LEE QUAID, AS SUCCESSOR TRUSTEE, OR ANY SUCCESSOR TRUSTEE, SUE KINT FAMILY TRUSTV
DATE EXECUTED:	02/15/2017
DATE RECORDED:	02/15/2017
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2017-0066665
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 3

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT AS TRUSTEE OF THE SUE KINT FAMILY TRUST
TITLE RECEIVED FROM:	GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST, HIS 1/2 INTEREST
DATE EXECUTED:	03/28/2014
DATE RECORDED:	03/31/2014
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2014-0112838
DOCKET:	NA
LAND RECORD COMMENTS:	AFFIDAVIT - DEATH OF TRUSTEE, R. 08/08/2014, AS INSTRUMENT NO. 2014-0289379; SUE KINT, DECEASED 06/19/2014 AND KEVIN LEE QUAID NAMED SUCCESSOR TRUSTEE

CHAIN 4

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT AS TRUSTEE OF THE SUE KINT FAMILY TRUST, AND GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST, EACH AS TO AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	DESERT WIND, LLC
DATE EXECUTED:	05/22/2008
DATE RECORDED:	09/24/2008
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2008-0428820
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 5

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	DESERT WIND, LLC
TITLE RECEIVED FROM:	GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST, AND SUE KINT AS TRUSTEE OF THE SUE KINT FAMILY TRUST
DATE EXECUTED:	11/04/2005
DATE RECORDED:	02/06/2006
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2006-0085950
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 6

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT, AS TRUSTEE, OR ANY SUCCESSOR TRUSTEE, U/DD/T, NAMED SUE KINT FAMILY TRUST, CREATED BY SUE KINT, TRUSTOR, AS TO AN UNDIVIDED 50% OWNNERSHIP
TITLE RECEIVED FROM:	SUE KINT, A MARRIED WOMAN, AS TO AN UNDIVIDED 50% OWNERSHIP
DATE EXECUTED:	12/19/1998
DATE RECORDED:	12/31/1998
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	19980560196
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 7

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST
TITLE RECEIVED FROM:	GEORGE KUBOTA, A SINGLE MAN, AS TO AN UNDIVIDED 1/2 INTEREST
DATE EXECUTED:	08/19/1992
DATE RECORDED:	08/26/1992
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	92-354390
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 8

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	GEORGE KUBOTA, A SINGLE MAN, AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	ORANGE PROPERTY MANAGMENT, INC.
DATE EXECUTED:	09/25/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	90-134591
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 9

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	ORANGE PROPERTY MANAGEMENT, INC., AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	LE-LUAN CHAO
DATE EXECUTED:	09/27/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-363655
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 10

TYPE OF DEED:	QUIT CLAIM DEED
TITLE IS VESTED IN:	SUE KINT, A MARRIED WOMAN
TITLE RECEIVED FROM:	BRADLEY A. KINT, HUSBAND OF THE GRANTEE HEREIN
DATE EXECUTED:	09/29/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-363654
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 11

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT, A MARRIED WOMAN, AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	LE-LUAN CHAO
DATE EXECUTED:	09/27/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-363653
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 12

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	LE-LUAN CHAO, A SINGLE WOMAN
TITLE RECEIVED FROM:	NORMAN J. ROWAN AND DOLORES E. ROWAN, H & W
DATE EXECUTED:	09/01/1989
DATE RECORDED:	09/26/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-355970
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 13

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	NORMAN J. ROWAN AND DOLORES E. ROWAN, H & W
TITLE RECEIVED FROM:	WILLAM M. CLOVER AND BARBARA R. CLOVER, AS TRUSTEES OF THE INTER-VIVOS TRUST AGREEMENT
DATE EXECUTED:	06/21/1979
DATE RECORDED:	09/25/1979
BOOK:	9778
PAGE:	580
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NW 1/4 NW 1/4, SEC 8, T9N, R2W

CHAIN 14

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	WILLAM M. CLOVER AND BARBARA R. CLOVER, H & W
TITLE RECEIVED FROM:	CLARENCE A. HUNT AND MARIE ANN HUNT, H & W
DATE EXECUTED:	06/08/1967
DATE RECORDED:	07/07/1967
BOOK:	6851
PAGE:	306
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NW 1/4 NW 1/4, SEC 8, T9N, R2W

CHAIN 15

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	CLARENCE A. HUNT AND MARIE ANN HUNT, H & W
TITLE RECEIVED FROM:	KENNETH L. LUTZ AND MARJORIE M. LUTZ, H & W
DATE EXECUTED:	06/14/1962
DATE RECORDED:	07/30/1962
BOOK:	5742
PAGE:	6
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 16

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	KENNETH L. LUTZ AND MARJORIE M. LUTZ, H & W
TITLE RECEIVED FROM:	CLARENCE A. HUNT AND MARIE ANN HUNT, H & W
DATE EXECUTED:	07/21/1958
DATE RECORDED:	09/15/1958
BOOK:	4603
PAGE:	224
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 17

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	GALE H. PIKE, A SINGLE MAN, THELMA H. PIKE, A WIDOW AND LELAND J. ELLIS, A SINGLE MAN
TITLE RECEIVED FROM:	CHARLES RONALD ROUSE AND ELLEN B. ROUSE, H & W
DATE EXECUTED:	02/20/1956
DATE RECORDED:	03/13/1956
BOOK:	3883
PAGE:	288
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 18

TYPE OF DEED:	PATENT
TITLE IS VESTED IN:	CHARLES RONALD ROUSE
TITLE RECEIVED FROM:	THE UNITED STATES OF AMERICA
DATE EXECUTED:	08/03/1953
DATE RECORDED:	03/25/1955
BOOK:	3603
PAGE:	476
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NO ADDITIONAL DEEDS FOUND

EDR Chain of Title

MISCELLANEOUS

EXHIBIT "B"

EDR Chain of Title

MISCELLANEOUS

COMMENTS: NONE IDENTIFIED.

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL DOCUMENT TO:

NAME KevinLee Quaid

STREET ADDRESS 816 Whitewater Drive

CITY, STATE & ZIP CODE Fullerton, CA 92833

Recorded In Official Records, County of San Bernardino

BOB DUTTON
ASSESSOR – RECORDER – CLERK

2/15/2017
11:08 AM
ALS
SAN

R Regular Mail

Doc#: 2017 – 0066666

Titles: 1 **Pages: 4**

Fees	34.00
Taxes	0.00
Other	6.00
PAID	$40.00

SPACE ABOVE FOR RECORDER'S USE ONLY

Quitclaim Deed

Title of Document

THIS AREA FOR RECORDER'S USE ONLY

THIS COVER SHEET ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION
(**$3.00 Additional Recording Fee Applies**)

WHEN RECORDED MAIL DEED
AND TAX STATEMENT TO:
KEVIN LEE QUAID
806 Whitewater Drive
Fullerton, California 92833

---

clt # 98-07-0058

QUITCLAIM DEED

The undersigned grantor(s) declare(s) Documentary transfer tax is $ -0- *
The land tenements or realty is located in:
Unincorporated area: San Bernardino [ ] City of

FOR NO CONSIDERATION, KEVIN LEE QUAID, an Unmarried Man, hereby QUITCLAIM(s) to KEVIN LEE QUAID, as Trustee, or any successor Trustee, under that certain Declaration of Trust named KEVIN LEE QUAID FAMILY TRUST, created by KEVIN LEE QUAID, as Trustor, dated September 11, 1998, the following described real property in the County of San Bernardino, State of California:

SEE ATTACHED EXHIBIT "A"

COMMONLY KNOWN AS: No Situs
ASSESSOR'S PARCEL NO.: 0497-142-03, 0497-142-04, 0497-142-14 and 0497-142-15

*** THIS CONVEYANCE TRANSFERS AN INTEREST INTO A LIVING TRUST, R & T 11930**

Dated: January 24, 2017

KEVIN LEE QUAID

(See Attached Notary Acknowledgement)

California All-Purpose Acknowledgement for Quitclaim Deed

Civil Code §1189

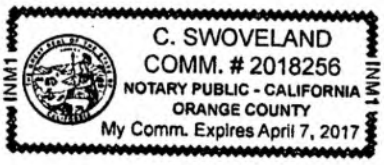
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) SS.
COUNTY OF ORANGE)

On January 24, 2017, before me, C. SWOVELAND, a Notary Public, personally appeared KEVIN LEE QUAID, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official Seal.



Notary Public

EXHIBIT "A"

FOR APN/PARCEL ID(s): 0497-142-03-0-000, 0497-142-04-0-000, 0497-142-14-0-000 and 0497-142-15-0-000

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

PARCEL A:

THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 9 NORTH, RANGE 2 WEST, SAN BERNARDINO MERIDIAN, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

EXCEPTING THEREFROM THE WEST 30 FEET FOR ROAD PURPOSES AS CONDEMNED TO THE COUNTY OF SAN BERNARDINO BY FINAL ORDER OF CONDEMNATION RECORDED NOVEMBER 24, 1986 AS INSTRUMENT NO. 86-355593, OFFICIAL RECORDS.

ALSO EXCEPT ALL URANIUM, THORIUM OR ANY OTHER FISSIONABLE MATERIALS WITH THE RIGHT TO ENTER UPON SAID LAND TO PROSPECT FOR, MINE AND REMOVE THE SAME PURSUANT TO THE PROVISIONS OF THE ACT OF AUGUST 1, 1946 (60 STAT. 755) AS EXCEPTED AND RESERVED IN THE PATENT FROM THE UNITED STATES OF AMERICA TO CHARLES RONALD ROUSE, RECORDED MARCH 28, 1955 IN BOOK 3603, PAGE 476, OFFICIAL RECORDS.

PARCEL B:

THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 9 NORTH, RANGE 2 WEST, SAN BERNARDINO MERIDIAN, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

EXCEPTING THEREFROM THE WEST 30 FEET FOR ROAD PURPOSES AS CONDEMNED TO THE COUNTY OF SAN BERNARDINO BY FINAL ORDER OF CONDEMNATION RECORDED NOVEMBER 24, 1986 AS INSTRUMENT NO. 86-355593 OFFICIAL RECORDS.

ALSO EXCEPT ALL URANIUM, THORIUM OR ANY OTHER FISSIONABLE MATERIALS WITH THE RIGHT TO ENTER UPON SAID LAND TO PROSPECT FOR, MINE AND REMOVE THE SAME PURSUANT TO THE PROVISIONS OF THE ACT OF AUGUST 1, 1946 (60 STAT. 755) AS EXCEPTED AND RESERVED IN THE PATENT FROM THE UNITED STATES OF AMERICA TO CHARLES RONALD ROUSE, RECORDED MARCH 28, 1955 IN BOOK 3603, PAGE 476, OFFICIAL RECORDS.

PARCEL C:

PARCELS 3 AND 4 OF PARCEL MAP NO. 8113, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS SHOWN BY MAP ON FILE IN BOOK 83, PAGES 51 AND 52 OF PARCEL MAPS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

RIVERWEST - BARSTOW
LENWOOD RD
BARSTOW, CA 92311

Inquiry Number: 07005750.1R
JUNE 10, 2022

The EDR 1940 Chain of Title

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Chain of Title

The EDR Chain of Title Report tracks a line of successive owners from the present back to 1940 of a particular parcel of property, linked together by recorded transactions which pass title. Available nationwide, this report provides a summary of a property's ownership history and is a valuable source for determining the prior uses of a property.

A network of professional abstractors following established procedures, uses client supplied address information to locate:

• Historical Chain of Title research

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Chain of Title

TARGET PROPERTY INFORMATION

ADDRESS

RIVERWEST - BARSTOW

LENWOOD RD

BARSTOW, CA 92311

RESEARCH SOURCE

SOURCE 1: SAN BERNARDINO COUNTY RECORDER'S OFFICE

SOURCE 2: SAN BERNARDINO COUNTY ASSESSOR'S OFFICE

EXAMINER'S NOTE: PUBLIC RECORDS OF SAN BERNARDINO COUNTY, CA WERE SEARCHED FROM JANUARY 1, 1940 TO MAY 26, 2022, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED.

PROPERTY DESCRIPTION

CURRENT OWNER:	KEVIN LEE QUAID, AS TRUSTEE, OR ANY SUCCESSOR TRUSTEE, KEVIN LEE QUAID FAMILY TRUST
LEGAL DESCRIPTION:	SW 1/4 NW 1/4 SEC 8 TP 9N R 2W EX ST 11/24/86 #86-355593 (OD 1/28/82 #82-018917)
PROPERTY IDENTIFIERS:	0497-142-14-0000
GENERAL COMMENTS:	NA

HISTORICAL CHAIN OF TITLE

SEE EXHIBIT "A"

MISCELLANEOUS

SEE EXHIBIT "B"

EDR Chain of Title

CHAIN OF TITLE

EXHIBIT "A"

EDR Chain of Title

HISTORICAL CHAIN OF TITLE

PARCEL 0497-142-14-0000

CHAIN 1

TYPE OF DEED:	QUIT CLAIM DEED
TITLE IS VESTED IN:	KEVIN LEE QUAID, AS TRUSTEE, OR ANY SUCCESSOR TRUSTEE, KEVIN LEE QUAID FAMILY TRUST
TITLE RECEIVED FROM:	KEVIN LEE QUAID, AN UNMARRIED MAN
DATE EXECUTED:	02/15/2017
DATE RECORDED:	02/15/2017
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2017-0066666
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 2

TYPE OF DEED:	TRUST TRANSFER DEED
TITLE IS VESTED IN:	KEVIN LEE QUAID, AN UNMARRIED MAN
TITLE RECEIVED FROM:	KEVIN LEE QUAID, AS SUCCESSOR TRUSTEE, OR ANY SUCCESSOR TRUSTEE, SUE KINT FAMILY TRUSTV
DATE EXECUTED:	02/15/2017
DATE RECORDED:	02/15/2017
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2017-0066665
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 3

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT AS TRUSTEE OF THE SUE KINT FAMILY TRUST
TITLE RECEIVED FROM:	GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST, HIS 1/2 INTEREST
DATE EXECUTED:	03/28/2014
DATE RECORDED:	03/31/2014
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2014-0112838
DOCKET:	NA
LAND RECORD COMMENTS:	AFFIDAVIT - DEATH OF TRUSTEE, R. 08/08/2014, AS INSTRUMENT NO. 2014-0289379; SUE KINT, DECEASED 06/19/2014 AND KEVIN LEE QUAID NAMED SUCCESSOR TRUSTEE

CHAIN 4

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT AS TRUSTEE OF THE SUE KINT FAMILY TRUST, AND GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST, EACH AS TO AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	DESERT WIND, LLC
DATE EXECUTED:	05/22/2008
DATE RECORDED:	09/24/2008
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2008-0428820
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 5

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	DESERT WIND, LLC
TITLE RECEIVED FROM:	GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST, AND SUE KINT AS TRUSTEE OF THE SUE KINT FAMILY TRUST
DATE EXECUTED:	11/04/2005
DATE RECORDED:	02/06/2006
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2006-0085950
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 6

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT, AS TRUSTEE, OR ANY SUCCESSOR TRUSTEE, U/DD/T, NAMED SUE KINT FAMILY TRUST, CREATED BY SUE KINT, TRUSTOR, AS TO AN UNDIVIDED 50% OWNNERSHIP
TITLE RECEIVED FROM:	SUE KINT, A MARRIED WOMAN, AS TO AN UNDIVIDED 50% OWNERSHIP
DATE EXECUTED:	12/19/1998
DATE RECORDED:	12/31/1998
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	19980560196
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 7

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST
TITLE RECEIVED FROM:	GEORGE KUBOTA, A SINGLE MAN, AS TO AN UNDIVIDED 1/2 INTEREST
DATE EXECUTED:	08/19/1992
DATE RECORDED:	08/26/1992
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	92-354390
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 8

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	GEORGE KUBOTA, A SINGLE MAN, AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	ORANGE PROPERTY MANAGMENT, INC.
DATE EXECUTED:	09/25/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	90-134591
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 9

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	ORANGE PROPERTY MANAGEMENT, INC., AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	LE-LUAN CHAO
DATE EXECUTED:	09/27/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-363655
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 10

TYPE OF DEED:	QUIT CLAIM DEED
TITLE IS VESTED IN:	SUE KINT, A MARRIED WOMAN
TITLE RECEIVED FROM:	BRADLEY A. KINT, HUSBAND OF THE GRANTEE HEREIN
DATE EXECUTED:	09/29/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-363654
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 11

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT, A MARRIED WOMAN, AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	LE-LUAN CHAO
DATE EXECUTED:	09/27/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-363653
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 12

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	LE-LUAN CHAO, A SINGLE WOMAN
TITLE RECEIVED FROM:	CLARENCE A. HUNT AND MARIE ANN HUNT, H & W
DATE EXECUTED:	09/18/1989
DATE RECORDED:	09/22/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-350772
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 13

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	CLARENCE A. HUNT AND MARIE ANN HUNT, H & W
TITLE RECEIVED FROM:	KENNETH L. LUTZ AND MARJORIE M. LUTZ, H & W
DATE EXECUTED:	06/14/1962
DATE RECORDED:	07/30/1962
BOOK:	5742
PAGE:	6
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 14

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	KENNETH L. LUTZ AND MARJORIE M. LUTZ, H & W
TITLE RECEIVED FROM:	CLARENCE A. HUNT AND MARIE ANN HUNT, H & W
DATE EXECUTED:	07/21/1958
DATE RECORDED:	09/15/1958
BOOK:	4603
PAGE:	224
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 15

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	GALE H. PIKE, A SINGLE MAN, THELMA H. PIKE, A WIDOW AND LELAND J. ELLIS, A SINGLE MAN
TITLE RECEIVED FROM:	CHARLES RONALD ROUSE AND ELLEN B. ROUSE, H & W
DATE EXECUTED:	02/20/1956
DATE RECORDED:	03/13/1956
BOOK:	3883
PAGE:	288
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 16

TYPE OF DEED:	PATENT
TITLE IS VESTED IN:	CHARLES RONALD ROUSE
TITLE RECEIVED FROM:	THE UNITED STATES OF AMERICA
DATE EXECUTED:	08/03/1953
DATE RECORDED:	03/25/1955
BOOK:	3603
PAGE:	476
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NO ADDITIONAL DEEDS FOUND

EDR Chain of Title

MISCELLANEOUS

EXHIBIT "B"

EDR Chain of Title

MISCELLANEOUS

COMMENTS: NONE IDENTIFIED.

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL DOCUMENT TO:

NAME KevinLee Quaid

STREET ADDRESS 918 Whitewater Drive

CITY, STATE & ZIP CODE Fullerton, CA 92833

Recorded In Official Records, County of San Bernardino

BOB DUTTON
ASSESSOR – RECORDER – CLERK

2/15/2017
11:08 AM
ALS
SAN

R Regular Mail

Doc#: 2017 – 0066666

Titles: 1 **Pages: 4**

Fees	34.00
Taxes	0.00
Other	6.00
PAID	$40.00

SPACE ABOVE FOR RECORDER'S USE ONLY

Quitclaim Deed

Title of Document

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THIS COVER SHEET ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION
($3.00 Additional Recording Fee Applies)

WHEN RECORDED MAIL DEED
AND TAX STATEMENT TO:
KEVIN LEE QUAID
806 Whitewater Drive
Fullerton, California 92833

---

clt # 98-07-0058

QUITCLAIM DEED

The undersigned grantor(s) declare(s) Documentary transfer tax is $ -0- *
The land tenements or realty is located in:
Unincorporated area: San Bernardino [ ] City of

FOR NO CONSIDERATION, KEVIN LEE QUAID, an Unmarried Man, hereby QUITCLAIM(s) to KEVIN LEE QUAID, as Trustee, or any successor Trustee, under that certain Declaration of Trust named KEVIN LEE QUAID FAMILY TRUST, created by KEVIN LEE QUAID, as Trustor, dated September 11, 1998, the following described real property in the County of San Bernardino, State of California:

SEE ATTACHED EXHIBIT "A"

COMMONLY KNOWN AS: No Situs
ASSESSOR'S PARCEL NO.: 0497-142-03, 0497-142-04, 0497-142-14 and 0497-142-15

*** THIS CONVEYANCE TRANSFERS AN INTEREST INTO A LIVING TRUST, R & T 11930**

Dated: January 24, 2017

KEVIN LEE QUAID

(See Attached Notary Acknowledgement)

California All-Purpose Acknowledgement for Quitclaim Deed

Civil Code §1189

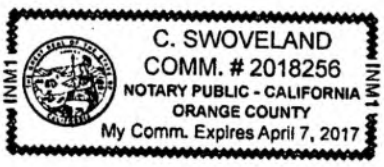
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) SS.
COUNTY OF ORANGE)

On January 24, 2017, before me, C. SWOVELAND, a Notary Public, personally appeared KEVIN LEE QUAID, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official Seal.



Notary Public

EXHIBIT "A"

FOR APN/PARCEL ID(s): 0497-142-03-0-000, 0497-142-04-0-000, 0497-142-14-0-000 and 0497-142-15-0-000

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

PARCEL A:

THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 9 NORTH, RANGE 2 WEST, SAN BERNARDINO MERIDIAN, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

EXCEPTING THEREFROM THE WEST 30 FEET FOR ROAD PURPOSES AS CONDEMNED TO THE COUNTY OF SAN BERNARDINO BY FINAL ORDER OF CONDEMNATION RECORDED NOVEMBER 24, 1986 AS INSTRUMENT NO. 86-355593, OFFICIAL RECORDS.

ALSO EXCEPT ALL URANIUM, THORIUM OR ANY OTHER FISSIONABLE MATERIALS WITH THE RIGHT TO ENTER UPON SAID LAND TO PROSPECT FOR, MINE AND REMOVE THE SAME PURSUANT TO THE PROVISIONS OF THE ACT OF AUGUST 1, 1946 (60 STAT. 755) AS EXCEPTED AND RESERVED IN THE PATENT FROM THE UNITED STATES OF AMERICA TO CHARLES RONALD ROUSE, RECORDED MARCH 28, 1955 IN BOOK 3603, PAGE 476, OFFICIAL RECORDS.

PARCEL B:

THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 9 NORTH, RANGE 2 WEST, SAN BERNARDINO MERIDIAN, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

EXCEPTING THEREFROM THE WEST 30 FEET FOR ROAD PURPOSES AS CONDEMNED TO THE COUNTY OF SAN BERNARDINO BY FINAL ORDER OF CONDEMNATION RECORDED NOVEMBER 24, 1986 AS INSTRUMENT NO. 86-355593 OFFICIAL RECORDS.

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PARCEL C:

PARCELS 3 AND 4 OF PARCEL MAP NO. 8113, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS SHOWN BY MAP ON FILE IN BOOK 83, PAGES 51 AND 52 OF PARCEL MAPS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

RIVERWEST - BARSTOW
LENWOOD RD
BARSTOW, CA 92311

Inquiry Number: 07005750.1R
JUNE 10, 2022

The EDR 1940 Chain of Title

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Chain of Title

The EDR Chain of Title Report tracks a line of successive owners from the present back to 1940 of a particular parcel of property, linked together by recorded transactions which pass title. Available nationwide, this report provides a summary of a property's ownership history and is a valuable source for determining the prior uses of a property.

A network of professional abstractors following established procedures, uses client supplied address information to locate:

• Historical Chain of Title research

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Chain of Title

TARGET PROPERTY INFORMATION

ADDRESS

RIVERWEST - BARSTOW

LENWOOD RD

BARSTOW, CA 92311

RESEARCH SOURCE

SOURCE 1: SAN BERNARDINO COUNTY RECORDER'S OFFICE

SOURCE 2: SAN BERNARDINO COUNTY ASSESSOR'S OFFICE

EXAMINER'S NOTE: PUBLIC RECORDS OF SAN BERNARDINO COUNTY, CA WERE SEARCHED FROM JANUARY 1, 1940 TO MAY 26, 2022, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED.

PROPERTY DESCRIPTION

CURRENT OWNER:	KEVIN LEE QUAID, AS TRUSTEE, OR ANY SUCCESSOR TRUSTEE, KEVIN LEE QUAID FAMILY TRUST
LEGAL DESCRIPTION:	NW 1/4 SW 1/4 SEC 8 TP 9N R 2W EX ST 11/24/86 #86-355593
PROPERTY IDENTIFIERS:	0497-142-15-0000
GENERAL COMMENTS:	NA

HISTORICAL CHAIN OF TITLE

SEE EXHIBIT "A"

MISCELLANEOUS

SEE EXHIBIT "B"

EDR Chain of Title

CHAIN OF TITLE

EXHIBIT "A"

EDR Chain of Title

HISTORICAL CHAIN OF TITLE

PARCEL 0497-142-15-0000

CHAIN 1

TYPE OF DEED:	QUIT CLAIM DEED
TITLE IS VESTED IN:	KEVIN LEE QUAID, AS TRUSTEE, OR ANY SUCCESSOR TRUSTEE, KEVIN LEE QUAID FAMILY TRUST
TITLE RECEIVED FROM:	KEVIN LEE QUAID, AN UNMARRIED MAN
DATE EXECUTED:	02/15/2017
DATE RECORDED:	02/15/2017
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2017-0066666
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 2

TYPE OF DEED:	TRUST TRANSFER DEED
TITLE IS VESTED IN:	KEVIN LEE QUAID, AN UNMARRIED MAN
TITLE RECEIVED FROM:	KEVIN LEE QUAID, AS SUCCESSOR TRUSTEE, OR ANY SUCCESSOR TRUSTEE, SUE KINT FAMILY TRUSTV
DATE EXECUTED:	02/15/2017
DATE RECORDED:	02/15/2017
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2017-0066665
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 3

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT AS TRUSTEE OF THE SUE KINT FAMILY TRUST
TITLE RECEIVED FROM:	GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST, HIS 1/2 INTEREST
DATE EXECUTED:	03/28/2014
DATE RECORDED:	03/31/2014
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2014-0112838
DOCKET:	NA
LAND RECORD COMMENTS:	AFFIDAVIT - DEATH OF TRUSTEE, R. 08/08/2014, AS INSTRUMENT NO. 2014-0289379; SUE KINT, DECEASED 06/19/2014 AND KEVIN LEE QUAID NAMED SUCCESSOR TRUSTEE

CHAIN 4

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT AS TRUSTEE OF THE SUE KINT FAMILY TRUST, AND GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST, EACH AS TO AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	DESERT WIND, LLC
DATE EXECUTED:	05/22/2008
DATE RECORDED:	09/24/2008
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2008-0428820
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 5

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	DESERT WIND, LLC
TITLE RECEIVED FROM:	GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST, AND SUE KINT AS TRUSTEE OF THE SUE KINT FAMILY TRUST
DATE EXECUTED:	11/04/2005
DATE RECORDED:	02/06/2006
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	2006-0085950
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 6

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT, AS TRUSTEE, OR ANY SUCCESSOR TRUSTEE, U/DD/T, NAMED SUE KINT FAMILY TRUST, CREATED BY SUE KINT, TRUSTOR, AS TO AN UNDIVIDED 50% OWNNERSHIP
TITLE RECEIVED FROM:	SUE KINT, A MARRIED WOMAN, AS TO AN UNDIVIDED 50% OWNERSHIP
DATE EXECUTED:	12/19/1998
DATE RECORDED:	12/31/1998
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	19980560196
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 7

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	GEORGE T. KUBOTA, TRUSTEE OF THE DECLARATION OF TRUST
TITLE RECEIVED FROM:	GEORGE KUBOTA, A SINGLE MAN, AS TO AN UNDIVIDED 1/2 INTEREST
DATE EXECUTED:	08/19/1992
DATE RECORDED:	08/26/1992
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	92-354390
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 8

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	GEORGE KUBOTA, A SINGLE MAN, AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	ORANGE PROPERTY MANAGMENT, INC.
DATE EXECUTED:	09/25/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	90-134591
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 9

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	ORANGE PROPERTY MANAGEMENT, INC., AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	LE-LUAN CHAO
DATE EXECUTED:	09/27/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-363655
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 10

TYPE OF DEED:	QUIT CLAIM DEED
TITLE IS VESTED IN:	SUE KINT, A MARRIED WOMAN
TITLE RECEIVED FROM:	BRADLEY A. KINT, HUSBAND OF THE GRANTEE HEREIN
DATE EXECUTED:	09/29/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-363654
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 11

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	SUE KINT, A MARRIED WOMAN, AN UNDIVIDED 1/2 INTEREST
TITLE RECEIVED FROM:	LE-LUAN CHAO
DATE EXECUTED:	09/27/1989
DATE RECORDED:	09/29/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-363653
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 12

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	LE-LUAN CHAO, A SINGLE WOMAN
TITLE RECEIVED FROM:	CLARENCE A. HUNT AND MARIE ANN HUNT, H & W
DATE EXECUTED:	09/18/1989
DATE RECORDED:	09/22/1989
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	89-350772
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 13

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	CLARENCE A. HUNT AND MARIE ANN HUNT, H & W
TITLE RECEIVED FROM:	KENNETH L. LUTZ AND MARJORIE M. LUTZ, H & W
DATE EXECUTED:	06/14/1962
DATE RECORDED:	07/30/1962
BOOK:	5742
PAGE:	6
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 14

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	KENNETH L. LUTZ AND MARJORIE M. LUTZ, H & W
TITLE RECEIVED FROM:	CLARENCE A. HUNT AND MARIE ANN HUNT, H & W
DATE EXECUTED:	07/21/1958
DATE RECORDED:	09/15/1958
BOOK:	4603
PAGE:	224
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

CHAIN 15

TYPE OF DEED:	GRANT DEED
TITLE IS VESTED IN:	GALE H. PIKE, A SINGLE MAN, THELMA H. PIKE, A WIDOW AND LELAND J. ELLIS, A SINGLE MAN
TITLE RECEIVED FROM:	CHARLES RONALD ROUSE AND ELLEN B. ROUSE, H & W
DATE EXECUTED:	02/20/1956
DATE RECORDED:	03/13/1956
BOOK:	3883
PAGE:	288
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

CHAIN 16

TYPE OF DEED:	PATENT
TITLE IS VESTED IN:	CHARLES RONALD ROUSE
TITLE RECEIVED FROM:	THE UNITED STATES OF AMERICA
DATE EXECUTED:	08/03/1953
DATE RECORDED:	03/25/1955
BOOK:	3603
PAGE:	476
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NO ADDITIONAL DEEDS FOUND

EDR Chain of Title

MISCELLANEOUS

EXHIBIT "B"

EDR Chain of Title

MISCELLANEOUS

COMMENTS: NONE IDENTIFIED.

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL DOCUMENT TO:

NAME KevinLee Quaid

STREET ADDRESS 918 Whitewater Drive

CITY, STATE & ZIP CODE Fullerton, CA 92833

Recorded In Official Records, County of San Bernardino

BOB DUTTON
ASSESSOR – RECORDER – CLERK

2/15/2017
11:08 AM
ALS
SAN

R Regular Mail

Doc#: 2017 – 0066666

Titles: 1 **Pages: 4**

Fees	34.00
Taxes	0.00
Other	6.00
PAID	$40.00

SPACE ABOVE FOR RECORDER'S USE ONLY

Quitclaim Deed

Title of Document

THIS AREA FOR RECORDER'S USE ONLY

THIS COVER SHEET ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION
($3.00 Additional Recording Fee Applies)

WHEN RECORDED MAIL DEED
AND TAX STATEMENT TO:
KEVIN LEE QUAID
806 Whitewater Drive
Fullerton, California 92833

---

clt # 98-07-0058

QUITCLAIM DEED

The undersigned grantor(s) declare(s) Documentary transfer tax is $ -0- *
The land tenements or realty is located in:
Unincorporated area: San Bernardino [ ] City of

FOR NO CONSIDERATION, KEVIN LEE QUAID, an Unmarried Man, hereby QUITCLAIM(s) to KEVIN LEE QUAID, as Trustee, or any successor Trustee, under that certain Declaration of Trust named KEVIN LEE QUAID FAMILY TRUST, created by KEVIN LEE QUAID, as Trustor, dated September 11, 1998, the following described real property in the County of San Bernardino, State of California:

SEE ATTACHED EXHIBIT "A"

COMMONLY KNOWN AS: No Situs
ASSESSOR'S PARCEL NO.: 0497-142-03, 0497-142-04, 0497-142-14 and 0497-142-15

*** THIS CONVEYANCE TRANSFERS AN INTEREST INTO A LIVING TRUST, R & T 11930**

Dated: January 24, 2017

KEVIN LEE QUAID

(See Attached Notary Acknowledgement)

California All-Purpose Acknowledgement for Quitclaim Deed

Civil Code §1189

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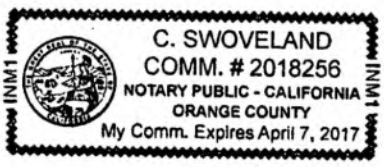
STATE OF CALIFORNIA)
) SS.
COUNTY OF ORANGE)

On January 24, 2017, before me, C. SWOVELAND, a Notary Public, personally appeared KEVIN LEE QUAID, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official Seal.



Notary Public

EXHIBIT "A"

FOR APN/PARCEL ID(s): 0497-142-03-0-000, 0497-142-04-0-000, 0497-142-14-0-000 and 0497-142-15-0-000

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PARCEL B:

THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 9 NORTH, RANGE 2 WEST, SAN BERNARDINO MERIDIAN, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

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PARCEL C:

PARCELS 3 AND 4 OF PARCEL MAP NO. 8113, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS SHOWN BY MAP ON FILE IN BOOK 83, PAGES 51 AND 52 OF PARCEL MAPS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

Riverwest - Barstow
LENWOOD RD
Barstow, CA 92311

Inquiry Number: 7005750.2
June 06, 2022

EDR Environmental Lien and AUL Search

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

LENWOOD RD
Riverwest - Barstow
Barstow, CA 92311

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

RESEARCH SOURCE

Source 1:

San Bernardino Recorder
San Bernardino, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed:	deed
Title is vested in:	Kevin Lee Quaid Trustee
Title received from:	Kevin Lee Quaid
Deed Dated	1/24/2017
Deed Recorded:	2/15/2017
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	Kevin Lee Quaid Trustee
Parcel # / Property Identifier:	049714203, 049714214, 049714204, 049714215
Comments:	See Exhibit

Deed Exhibit 1

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL DOCUMENT TO:

NAME KevinLee Quaid

STREET ADDRESS 816 Whitewater Drive

CITY, STATE & ZIP CODE Fullerton, CA 92833

Recorded In Official Records, County of San Bernardino

2/15/2017
11:08 AM
ALS
SAN

BOB DUTTON
ASSESSOR – RECORDER – CLERK

R Regular Mail

Doc#: 2017–0066666

Titles: 1 **Pages: 4**

Fees	34.00
Taxes	0.00
Other	6.00
PAID	$40.00

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Quitclaim Deed

Title of Document

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AND TAX STATEMENT TO:
KEVIN LEE QUAID
806 Whitewater Drive
Fullerton, California 92833

---

clt # 98-07-0058

QUITCLAIM DEED

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The land tenements or realty is located in:
Unincorporated area: San Bernardino [ ] City of

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COMMONLY KNOWN AS: No Situs
ASSESSOR'S PARCEL NO.: 0497-142-03, 0497-142-04, 0497-142-14 and 0497-142-15

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KEVIN LEE QUAID

(See Attached Notary Acknowledgement)

California All-Purpose Acknowledgement for Quitclaim Deed

Civil Code §1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) SS.
COUNTY OF ORANGE)

On January 24, 2017, before me, C. SWOVELAND, a Notary Public, personally appeared KEVIN LEE QUAID, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

INM1 C. SWOVELAND INM1
COMM. # 2018256
NOTARY PUBLIC - CALIFORNIA
ORANGE COUNTY
My Comm. Expires April 7, 2017

WITNESS my hand and official Seal.

Notary Public

EXHIBIT "A"

FOR APN/PARCEL ID(s): 0497-142-03-0-000, 0497-142-04-0-000, 0497-142-14-0-000 and 0497-142-15-0-000

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

PARCEL A:

THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 9 NORTH, RANGE 2 WEST, SAN BERNARDINO MERIDIAN, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

EXCEPTING THEREFROM THE WEST 30 FEET FOR ROAD PURPOSES AS CONDEMNED TO THE COUNTY OF SAN BERNARDINO BY FINAL ORDER OF CONDEMNATION RECORDED NOVEMBER 24, 1986 AS INSTRUMENT NO. 86-355593, OFFICIAL RECORDS.

ALSO EXCEPT ALL URANIUM, THORIUM OR ANY OTHER FISSIONABLE MATERIALS WITH THE RIGHT TO ENTER UPON SAID LAND TO PROSPECT FOR, MINE AND REMOVE THE SAME PURSUANT TO THE PROVISIONS OF THE ACT OF AUGUST 1, 1946 (60 STAT. 755) AS EXCEPTED AND RESERVED IN THE PATENT FROM THE UNITED STATES OF AMERICA TO CHARLES RONALD ROUSE, RECORDED MARCH 28, 1955 IN BOOK 3603, PAGE 476, OFFICIAL RECORDS.

PARCEL B:

THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 9 NORTH, RANGE 2 WEST, SAN BERNARDINO MERIDIAN, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

EXCEPTING THEREFROM THE WEST 30 FEET FOR ROAD PURPOSES AS CONDEMNED TO THE COUNTY OF SAN BERNARDINO BY FINAL ORDER OF CONDEMNATION RECORDED NOVEMBER 24, 1986 AS INSTRUMENT NO. 86-355593 OFFICIAL RECORDS.

ALSO EXCEPT ALL URANIUM, THORIUM OR ANY OTHER FISSIONABLE MATERIALS WITH THE RIGHT TO ENTER UPON SAID LAND TO PROSPECT FOR, MINE AND REMOVE THE SAME PURSUANT TO THE PROVISIONS OF THE ACT OF AUGUST 1, 1946 (60 STAT. 755) AS EXCEPTED AND RESERVED IN THE PATENT FROM THE UNITED STATES OF AMERICA TO CHARLES RONALD ROUSE, RECORDED MARCH 28, 1955 IN BOOK 3603, PAGE 476, OFFICIAL RECORDS.

PARCEL C:

PARCELS 3 AND 4 OF PARCEL MAP NO. 8113, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS SHOWN BY MAP ON FILE IN BOOK 83, PAGES 51 AND 52 OF PARCEL MAPS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

APPENDIX E

DOCUMENTS PROVIDED BY CLIENT

ENVIRONMENTAL QUESTIONNAIRE AND DISCLOSURE STATEMENT

GENERAL INSTRUCTIONS: Please fill-in the blanks to the best of your ability. If you do not know the answer, please check the "DON'T KNOW" box. If you answer "YES" or the answer requires explanation please use additional pages and reference the table. Thank you, for your time and cooperation.

SITE INFORMATION	
Current Site Address	LENWOOD AVE
Current Site Use	VACANT
Current Site Zoning	AGRICULTURE
Current Assessor's Parcel Number	0497-0142-03, 04, 14 & 15
Addresses Formerly Assigned to Site (if any)	

SITE OWNERSHIP AND PAST USE		
OWNER NAME, ADDRESS & PHONE #	**PERIOD OF OWNERSHIP/USE**	**TYPE OF USE**
Not Known		

ADJACENT PROPERTY USE		
DIRECTION	**TYPE OF USE**	**LENGTH OF USE**
North	VACANT	Not Known
East	VACANT	Not Known
South	RESIDENTIAL	Not Known
West	VACANT	Not Known

PRIOR FACILITY MANAGER'S NAME	
Contact Person	N/A
Address	
Telephone	

EXISTING SITE STRUCTURES			
STRUCTURE DESCRIPTION	LOCATION	USE	DATE OF CONSTRUCTION
N/A			

FORMER SITE STRUCTURES			
STRUCTURE DESCRIPTION	FORMER LOCATION	USE	DATE OF DEMOLITION
Not known			

SITE LESSEES		
NAME, ADDRESS & PHONE #	LENGTH/YEARS OF LEASE	TYPE OF USE
PRESENT:		
FORMER:		
FORMER:		

SITE UTILITIES	
UTILITY	**PROVIDER**
Electricity	
Natural Gas	
Drinking Water	
Storm water Drainage	
Solid Waste Disposal	
Sanitary Sewer	
Emergency Power Source	

************* PLEASE PROVIDE DETAILS FOR ALL YES ANSWERS *************
Additianal space is pravided an page 9

#	SPECIFIC USES OF SITE AND ADJACENT PROPERTY*	SITE			ADJACENT		
		YES	NO	DON'T KNOW	YES	NO	DON'T KNOW
1A	Agricultural chemical formulation, distribution, or application			X			X
2A	Airport and/or airplane maintenance						
3A	Automotive wrecking yard						
4A	Bulk chemical or fuel storage						
5A	Commercial printing						
6A	Dry cleaning						
7A	Landfill						
8A	Metal plating or finishing						
9A	Mining or minerals processing						
10A	Motor vehicle or equipment repair and/or maintenance						
11A	Photographic laboratory						
12A	Service station						
13A	Skeet shooting or gun club						
14A	Releases, or spills of hazardous materials as a result of illegal dumping, or traffic accidents along the adjoining roadways.						
15A	Waste treatment, storage, disposal, processing or recycling, other than a landfill			X			X

* "Adjacent Property" includes those properties that border the immediate site and properties located across the street from the site.

*********** *PLEASE PROVIDE DETAILS FOR ALL YES ANSWERS* **********
Additionol spoce is provided on page 9

#	ON-SITE HAZARDOUS MATERIALS USE, STORAGE AND DISPOSAL	YES	NO	DON'T KNOW
1B	Are asbestos-containing materials present in on-site structures?			X
2B	Has an asbestos survey been conducted for on-site structures?			
3B	Are any electrical transformers or capacitors on-site?			
4B	Are any electrical transformers or capacitors on-site not owned by an electrical utility?			
5B	Does the Site have any elevators on-Site?			
6B	Has an Environmental Audit or Assessment been conducted for the site?			
7B	Do you know of any current or former aboveground storage tanks?			
8B	Do you know of any current or former underground storage tanks (not septic)?			
9B	Do you know of any fill dirt having been imported to the site?			
10B	Do you know of any current or former wells on site, including, domestic drinking water, irrigation water, disposal, oil and/or abandoned wells?			
11B	Do you know of any pesticides/herbicides permits for the site?			
12B	Do you know of any pesticides/herbicides stored or used on-site?			
13B	Are solvents, petroleum products, or paint products stored on-site?			
14B	Are you aware of any permits having been issued for the site by the local fire, environmental health, or air pollution control agencies?			X

*********** *PLEASE PROVIDE DETAILS FOR ALL YES ANSWERS* **********
Additionol space is provided on poge 9

#	SITE WASTE GENERATION, STORAGE AND DISPOSAL	YES	NO	DON'T KNOW
1C	Is liquid waste disposed of to a septic tank on-site?			X
2C	Is liquid waste disposed of elsewhere on-site?			
3C	Are any ponds, sumps, basins, lagoons, or clarifiers used on-site to collect, treat, or dispose of liquid?			
4C	If liquid waste is disposed of on-site, is a waste discharge permit required?			
5C	Is liquid waste disposed of to an off-site treatment works?			
6C	Is solid waste disposed of on-site (burned or buried)?			
7C	Does any solid or liquid off-site waste disposal require a waste manifest or disposal permit?			
8C	Is any hazardous waste generated, stored, or treated on-site?			
9C	Are any spills or releases of hazardous materials known or suspected to have occurred at the site?			
10C	Is there another individual who may have additional or more complete information regarding the former use and activities at the site?			X

Please provide details of any investigations of an environmental or geotechnical nature that have been performed by you or by others related to the subject property. If you are not aware of any investigation(s) that have been performed in the past regarding the subject property, whether or not a report was ever prepared and/or issued to you, please so state in the space below.

Not aware

Please provide details of any conditions known to you that could represent an environmental impairment to the subject property other than those items previously noted in this questionnaire. If you are not aware of any conditions, please so state in the space below.

Not aware

To your knowledge, has the property been subject to any regulatory action related to environmental conditions, whether or not a report was issued to you or filed with a regulatory agency. If you are not aware of any actions, please so state in the space below.

Not aware

PLEASE INDICATE IN THE BOXES BELOW IF THE FOLLOWING ITEMS EXIST AND IF YOU ARE ABLE TO PROVIDE THEM
Additional space is provided on page 9

	DOCUMENTS, REPORTS, LISTS, PLANS AND MAPS	Exists/Will Provide Copy	Exists/Will Not Provide Copy	Does Not Exist	Don't Know
1D	Site plans and/or maps that include legal property boundaries				X
2D	Building plans (architectural, utilities and structural)			X	
3D	Hazardous materials inventory				X
4D	Hazardous waste inventory				X
5D	Previously conducted Environmental Site Assessments				X
6D	Reports of subsurface investigations performed on the site including analytical data				X
7D	Reports of subsurface investigations performed on adjacent properties including analytical data				X
8D	Previously conducted geotechnical/ soil investigations at the Site				X
9D	Permits and location of USTs, sumps, pits, and drainage systems				X
10D	Permits and inspection reports for elevators				X
11D	Environmental permits and plans, including hazardous materials management plans, UST closure, etc.				X
12D	Agricultural Chemical Permits				X
13D	Literature or other sources of information regarding operations at the site				X
14D	Individual who may have additional or more complete information regarding uses and activities at the site				X

Additional Questions per ASTM E 1S27-13:

1) Have any environmental cleanup liens been filed or recorded against the Site?

Dont Know

2) Do you have knowledge of any activity and/or land use limitations that are in place on the Site or that have been filed or recorded in a registry?

NO

3) As the user of this Environmental Site Assessment (ESA) do you have any specialized knowledge related to the Site or activities at adjacent properties?

NO

4) Does the purchase price being paid for the Site reasonably reflect the fair market value? If you conclude that there is a difference, have you considered whether the lower price is because contamination is known or believed to be present at the Site?

Yes

5) Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases?

NO

6) As the user of this ESA, based on your knowledge and experience related to the Site, are there any obvious indicators that point to the presence of on Site contamination?

NO

PLEASE PROVIDE DETAILED INFORMATION FOR YES ANSWERS TO QUESTIONS (1A-15A), (1B-13B), (1C-10C)

ADDITIONALLY, PLEASE PROVIDE AN EXPLANATION WHY YOU ARE UNABLE TO PROVIDE (1D-13D) IF THEY EXIST

THIS ENVIRONMENTAL QUESTIONNAIRE AND DISCLOSURE STATEMENT WAS PREPARED BY:

NAME Brian Vail
TITLE Managing Member
FIRM EVC Partners LLC
RELATIONSHIP TO SITE
ADDRESS 2410 Fair Oaks Blvd - Suite 110
Sacramento, CA 95825

TELEPHONE NUMBER (916) 379-0955
DATE 5/20/2022

PREPARER REPRESENTS THAT TO THE BEST OF THE PREPARER'S KNOWLEDGE THE ABOVE STATEMENTS AND FACTS ARE TRUE AND CORRECT AND THAT TO THE BEST OF THE PREPARER'S KNOWLEDGE NO MATERIAL FACTS HAVE BEEN SUPPRESSED OR MISSTATED UNDER PENALTY OF PURGERY BY LAW.

Signed 5/20/2022

Date

DocuSign Envelope ID: 74E8C836-A7FF-45FF-868D-5A0FF44A8ACE

ENVIRONMENTAL QUESTIONNAIRE AND DISCLOSURE STATEMENT

GENERAL INSTRUCTIONS: Please fill-in the blanks to the best of your ability. If you do not know the answer, please check the "DON'T KNOW" box. If you answer "YES" or the answer requires explanation please use additional pages and reference the table. Thank you, for your time and cooperation.

SITE INFORMATION	
Current Site Address	0 Lenwood Road, Barstow, CA 92311
Current Site Use	Vacant Land
Current Site Zoning	RL
Current Assessor's Parcel Number	0497-142-03, 0497-142-04, 0497-142-14 & 0497-142-15
Addresses Formerly Assigned to Site (if any)	

SITE OWNERSHIP AND PAST USE		
OWNER NAME, ADDRESS & PHONE #	**PERIOD OF OWNERSHIP/USE**	**TYPE OF USE**
806 Whitewater Drive, Fullerton, Ca 90833	2015	Vacant Land

ADJACENT PROPERTY USE		
DIRECTION	**TYPE OF USE**	**LENGTH OF USE**
North	Homes and vacant land	
East	1 parcel is a home and 3 parcels are vacant land	
South	Mobil Home Park	
West	across the street vacant Land	

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PRIOR FACILITY MANAGER'S NAME	
Contact Person	NONE
Address	
Telephone	

EXISTING SITE STRUCTURES			
STRUCTURE DESCRIPTION	**LOCATION**	**USE**	**DATE OF CONSTRUCTION**
NONE			

FORMER SITE STRUCTURES			
STRUCTURE DESCRIPTION	**FORMER LOCATION**	**USE**	**DATE OF DEMOLITION**
NONE			

SITE LESSEES		
NAME, ADDRESS & PHONE #	**LENGTH/YEARS OF LEASE**	**TYPE OF USE**
PRESENT: NONE		
FORMER:		
FORMER:		

DocuSign Envelope ID: 74E8C836-A7FF-45FF-868D-5A0FF44A8ACE

SITE UTILITIES	
UTILITY	**PROVIDER**
Electricity	UNKNOWN
Natural Gas	UNKNOWN
Drinking Water	UNKNOWN
Storm water Drainage	UNKNOWN
Solid Waste Disposal	UNKNOWN
Sanitary Sewer	UNKNOWN
Emergency Power Source	UNKNOWN

DocuSign Envelope ID: 74E8C836-A7FF-45FF-868D-5A0FF44A8ACE

************* PLEASE PROVIDE DETAILS FOR ALL YES ANSWERS *************
Additional space is provided on page 9

#	SPECIFIC USES OF SITE AND ADJACENT PROPERTY*	SITE			ADJACENT		
		YES	NO	DON'T KNOW	YES	NO	DON'T KNOW
1A	Agricultural chemical formulation, distribution, or application			✓			✓
2A	Airport and/or airplane maintenance			✓			✓
3A	Automotive wrecking yard			✓			✓
4A	Bulk chemical or fuel storage			✓			✓
5A	Commercial printing			✓			✓
6A	Dry cleaning			✓			✓
7A	Landfill			✓			✓
8A	Metal plating or finishing			✓			✓
9A	Mining or minerals processing			✓			✓
10A	Motor vehicle or equipment repair and/or maintenance			✓			✓
11A	Photographic laboratory			✓			✓
12A	Service station			✓			✓
13A	Skeet shooting or gun club			✓			✓
14A	Releases, or spills of hazardous materials as a result of illegal dumping, or traffic accidents along the adjoining roadways.			✓			✓
15A	Waste treatment, storage, disposal, processing or recycling, other than a landfill			✓			✓

* "Adjacent Property" includes those properties that border the immediate site and properties located across the street from the site.

DocuSign Envelope ID: 74E8C836-A7FF-45FF-868D-5A0FF44A8ACE

************* PLEASE PROVIDE DETAILS FOR ALL YES ANSWERS *************
Additional space is provided on page 9

#	ON-SITE HAZARDOUS MATERIALS USE, STORAGE AND DISPOSAL	YES	NO	DON'T KNOW
1B	Are asbestos-containing materials present in on-site structures?			✓
2B	Has an asbestos survey been conducted for on-site structures?			✓
3B	Are any electrical transformers or capacitors on-site?			✓
4B	Are any electrical transformers or capacitors on-site **not** owned by an electrical utility?			✓
5B	Does the Site have any elevators on-Site?			✓
6B	Has an Environmental Audit or Assessment been conducted for the site?			✓
7B	Do you know of any current or former aboveground storage tanks?			✓
8B	Do you know of any current or former underground storage tanks (not septic)?			✓
9B	Do you know of any fill dirt having been imported to the site?			✓
10B	Do you know of any current or former wells on site, including, domestic drinking water, irrigation water, disposal, oil and/or abandoned wells?			✓
11B	Do you know of any pesticides/herbicides permits for the site?			✓
12B	Do you know of any pesticides/herbicides stored or used on-site?			✓
13B	Are solvents, petroleum products, or paint products stored on-site?			✓
14B	Are you aware of any permits having been issued for the site by the local fire, environmental health, or air pollution control agencies?			✓

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Additional space is provided on page 9

#	SITE WASTE GENERATION, STORAGE AND DISPOSAL	YES	NO	DON'T KNOW
1C	Is liquid waste disposed of to a septic tank on-site?			✓
2C	Is liquid waste disposed of elsewhere on-site?			✓
3C	Are any ponds, sumps, basins, lagoons, or clarifiers used on-site to collect, treat, or dispose of liquid?			✓
4C	If liquid waste is disposed of on-site, is a waste discharge permit required?			✓
5C	Is liquid waste disposed of to an off-site treatment works?			✓
6C	Is solid waste disposed of on-site (burned or buried)?			✓
7C	Does any solid or liquid off-site waste disposal require a waste manifest or disposal permit?			✓
8C	Is any hazardous waste generated, stored, or treated on-site?			✓
9C	Are any spills or releases of hazardous materials known or suspected to have occurred at the site?			✓
10C	Is there another individual who may have additional or more complete information regarding the former use and activities at the site?			✓

Please provide details of any investigations of an environmental or geotechnical nature that have been performed by you or by others related to the subject property. If you are not aware of any investigation(s) that have been performed in the past regarding the subject property, whether or not a report was ever prepared and/or issued to you, please so state in the space below.

UNKNOWN

Please provide details of any conditions known to you that could represent an environmental impairment to the subject property other than those items previously noted in this questionnaire. If you are not aware of any conditions, please so state in the space below.

UNKNOWN

To your knowledge, has the property been subject to any regulatory action related to environmental conditions, whether or not a report was issued to you or filed with a regulatory agency. If you are not aware of any actions, please so state in the space below.

NOT AWARE

DocuSign Envelope ID: 74E8C836-A7FF-45FF-868D-5A0FF44A8ACE

PLEASE INDICATE IN THE BOXES BELOW IF THE FOLLOWING ITEMS EXIST AND IF YOU ARE ABLE TO PROVIDE THEM
Additional space is provided on page 9

	DOCUMENTS, REPORTS, LISTS, PLANS AND MAPS	Exists/Will Provide Copy	Exists/Will Not Provide Copy	Does Not Exist	Don't Know
1D	Site plans and/or maps that include legal property boundaries			✓	
2D	Building plans (architectural, utilities and structural)			✓	
3D	Hazardous materials inventory			✓	
4D	Hazardous waste inventory			✓	
5D	Previously conducted Environmental Site Assessments				✓
6D	Reports of subsurface investigations performed on the site including analytical data				✓
7D	Reports of subsurface investigations performed on adjacent properties including analytical data				✓
8D	Previously conducted geotechnical/ soil investigations at the Site				✓
9D	Permits and location of USTs, sumps, pits, and drainage systems			✓	
10D	Permits and inspection reports for elevators			✓	
11D	Environmental permits and plans, including hazardous materials management plans, UST closure, etc.			✓	
12D	Agricultural Chemical Permits			✓	
13D	Literature or other sources of information regarding operations at the site			✓	
14D	Individual who may have additional or more complete information regarding uses and activities at the site			✓	

DocuSign Envelope ID: 74E8C836-A7FF-45FF-868D-5A0FF44A8ACE

Additional Questions per ASTM E 1527-13:

1) Have any environmental cleanup liens been filed or recorded against the Site?

NO/UNKNOWN

2) Do you have knowledge of any activity and/or land use limitations that are in place on the Site or that have been filed or recorded in a registry?

UNKNOWN

3) As the user of this Environmental Site Assessment (ESA) do you have any specialized knowledge related to the Site or activities at adjacent properties?

NO

4) Does the purchase price being paid for the Site reasonably reflect the fair market value? If you conclude that there is a difference, have you considered whether the lower price is because contamination is known or believed to be present at the Site?

YES

5) Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases?

NO

6) As the user of this ESA, based on your knowledge and experience related to the Site, are there any obvious indicators that point to the presence of on Site contamination?

NO

DocuSign Envelope ID: 74E8C836-A7FF-45FF-868D-5A0FF44A8ACE

PLEASE PROVIDE DETAILED INFORMATION FOR YES ANSWERS TO QUESTIONS (1A-15A), (1B-13B), (1C-10C)

ADDITIONALLY, PLEASE PROVIDE AN EXPLANATION WHY YOU ARE UNABLE TO PROVIDE (1D-13D) IF THEY EXIST

NA

THIS ENVIRONMENTAL QUESTIONNAIRE AND DISCLOSURE STATEMENT WAS PREPARED BY:

NAME Kevin Lee Quaid
TITLE TRUSTEE OF KEVIN LEE QUAID FAMILY TRUST

FIRM Kevin Lee QUAID Family Trust
RELATIONSHIP TO SITE OWNER
ADDRESS 806 Whitewater Drive, Fullerton, Ca 90833

TELEPHONE (714) 364-5555 **NUMBER**
DATE 3/18/2022

PREPARER REPRESENTS THAT TO THE BEST OF THE PREPARER'S KNOWLEDGE THE ABOVE STATEMENTS AND FACTS ARE TRUE AND CORRECT AND THAT TO THE BEST OF THE PREPARER'S KNOWLEDGE NO MATERIAL FACTS HAVE BEEN SUPPRESSED OR MISSTATED UNDER PENALTY OF PURGERY BY LAW.

DocuSigned by:
Kevin Lee Quaid
F96E3DEFA0B342B...
Signed

3/18/2022
Date

Appendix H
Preliminary Drainage Study

County of San Bernardino
LAND DEVELOPMENT

PRELIMINARY
APPROVAL

THE APPROVAL OF THIS REPORT SHALL NOT BE CONSTRUED TO BE A PERMIT FOR ANY DEVELOPMENT OR SITE IMPROVEMENT

By: Timothy Cheng (D8256)
Date: 11/06/2025 11:47:26 AM

This report has Preliminary Approval. Prior to Final Approval of the report, all outstanding comments and requirements shall be met.

timothy.cheng@lus.sbcounty.gov
General: (909) 387-8311 Direct: (909) 387-4096

Preliminary Drainage Study

for

Electrical Vehicle Charging Station and Logistics Facility Project

Lenwood Road San Bernardino County, California

Assessor's Parcel Numbers: 049-714-203, 049-714-204, 049-714-214, and 049-714-215

Project Number: 2023-00108
DRNSTY-2025-00044

Prepared for:

EVC Partners, LLC
2410 Fair Oaks Boulevard
Suite 110
Sacramento, CA 95825
916-379-0955

Prepared by:

Transtech Engineers, Inc.
413 Mackay Drive
San Bernardino, CA 92408
909-384-7464

June 2025
Revised: September 18, 2025

Project No. 230116

TRANSTECH

10/20/25
David B. Ragland, RCE 35985

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1. INTRODUCTION

This report presents the design criteria, hydrologic conditions and hydrologic analysis for a proposed 20.7-acre Electric Vehicle (EV) Charging / Logistics Facility to serve light duty/passenger vehicles and medium and heavy-duty trucks and 2) a concrete tilt-up light industrial, warehouse/distribution facility of 1,341,432 square feet in three buildings located on 79.19 acres in Lenwood, San Bernardino County.

The proposed project is located on Lenwood Road between California Highway 58 (CA 58) and Interstate 15 (I-15) surrounded by an area that is planned for significant intermodal, warehouse, and distribution uses. It is directly across the street from industrial zoned land in the City of Barstow and the planned Barstow International Gateway (BIG) project being undertaken by BNSF Railway. The majority of the surrounding parcels are vacant, with the High Desert Estates subdivision located to the south of the project site.

1.1 Site Description

The site is roughly rectangular in shape and covers roughly 96 acres. The site is bounded by Lenwood Road to the west, by vacant land and residential developed properties to the north with Agate Road beyond, by a residential subdivision to the south, and by vacant land to the east. The site consists of rolling terrain generally ranging from about 2,270 feet above mean sea level (AMSL) near the southeast corner of the site to about 2,194 feet AMSL near the northern portion of the site. Several small and shallow washes were noted throughout the site. At the time of the investigation, the site was covered with scattered seasonal vegetation consisting of grasses, weeds, and scattered shrubs. Dirt roads or paths that appeared to be used by offroad vehicles were noted throughout the site, including a path along the western side of the site parallel to Lenwood Road. Loose, sandy soils were noted at the ground surface. This condition made most of the site impassable to heavy two-wheel trucks. Fine to coarse gravel fragments were noted to be scattered across the ground surface.

2. HYDROLOGIC CONDITIONS

Natural drainage on the project site tends to flow in a south westerly to northerly direction due to a ridge running generally south to north along the easterly portion of the property.

Natural slope across the site are approximately two to six percent. There are not any natural drainage courses on the site as flows tend to be sheet flow until reaching the adjacent streets along the west and north portions of the site. The adjacent street along the project is partially improved. Southerly of the site, the street is fully improved including curb and gutter continuing for a short distance southerly of the site.

Natural drainage from the site is northwesterly and northeasterly. The majority of the project site flows northwesterly towards Lenwood Road. Approximately 12 acres of the site flows northeasterly towards an unimproved street. Stormwater flows from the northwestern portion of site continue northerly along Lenwood Road in open channel drainage swales. There are no underground storm drain improvements in the immediate vicinity of the project site.

Some site stormwater run on is anticipated. Approximately 17 acres lying easterly of the project site contributes 36 cubic feet per second. This runoff will be conveyed through the site in an underground storm drain. Most stormwater runoff is diverted due to the previous mentioned ridge line trending north to south along the easterly portion of the project site.

3. PROJECT DESCRIPTION AND PROPOSED STORM DRAIN

The Project's stormwater drainage system will be depicted on the Conceptual Drainage Plan. The Project's on-site stormwater drainage system would consist of catch basins, underground storm drainpipes, underground detention chambers/basins, and a detention basin. The system is designed to collect and detain on-site

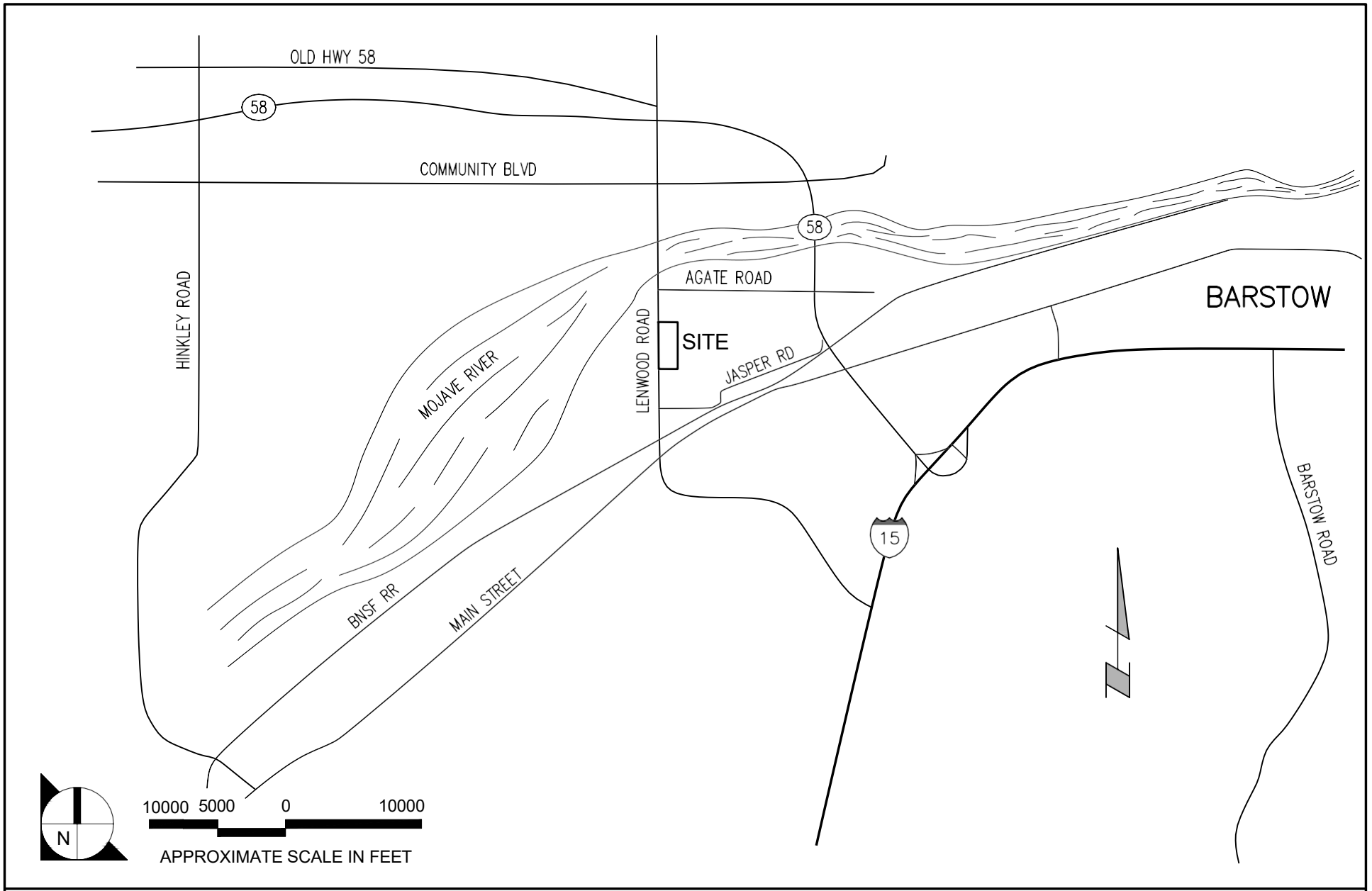

Figure 1.1. Vicinity Map

TRANSTECH

stormwater runoff though\t peak flow attenuation before discharging flows off-site. Attenuated stormwater runoff will be discharged off-site via proposed parkway drains that connect to the proposed gutter system in Lenwood Road and a discharge structure located at the northwesterly corner of the site that will discharge flows to the street gutter. Flows will continue northerly along the easterly side of Lenwood Road as they currently do. Attenuated flows discharged from the detention basin in the northeasterly portion of the site will be discharged to a point along the end of an unimproved street. Approximately 36 cubic feet per second of offsite run-on will be conveyed across the project site though the onsite underground storm, drain system.

The following design parameters are used for the basis of the hydrological analysis.

Table Project Land Use Summary

	Land Use	Hydrologic Soils Group (1) A/B	Hydrologic Soils Group C	AMC	Pervious Surface
		CN	CN		
Existing Site Conditions	Vacant Desert Scrub	82	87	II	100%
Proposed Site Conditions	Electric Vehicle Charging Warehousing and Parking	32	69	II	10%

1) Curve numbers for group A and B have not been completed developed. *USDA "Urban Hydrology for Small Watershed, TR-55."*

NOAA Atlas 14 Rainfall Intensity for a 1-hour, 100-year storm = 1.11 inches.

3.1 Water Quality

The proposed project is not subject to the County's water quality and NPDES requirements and recommendations provided in the San Bernardino County Stormwater Program.

4. FEMA FLOOD PLAIN

The project site lies within FEMA Zone X per FEMA Flood Insurance Rate Map (FIRM) panel 06071C3915J Dated September 2, 2016. Zone X are other areas and are areas determined to be outside the 0.2% annual chance floodplain.

5. SOILS

The soils on the project site are primarily comprised of the Victorville Sandy Loam, Cajon Sand and Rock Outcrop-Lithic Torriorthents. The Victorville series consists of deep, moderately well drained soils that formed in mixed alluvium, dominantly from granitic sources. Victorville soils are on low river terraces and flood plains and have slopes of 0 to 2 percent. The Cajon series consists of very deep, somewhat excessively drained soils that formed in sandy alluvium from dominantly granitic rocks. Cajon soils are on alluvial fans, fan aprons, fan skirts, inset fans and river terraces. Slopes are 0 to 15 percent. The torriorthents-Rock outcrop consists of very shallow, excessively drained soils formed in granitic residuum. The soils are on mountains, hills, and pediments. Slope ranges from 2 to 50 percent.

The soils are somewhat excessively drained with negligible to low runoff and moderately rapid permeability high saturated hydraulic conductivity. The hydrologic soil group for these soils are A, B and C.

6. HYDROLOGY

The results of the onsite Rational Method hydrologic analysis are used herein to present the anticipated pre and post-development peak flow rate runoff conditions for the proposed project as follows:

	Northwesterly Discharge	Northeasterly Discharge	Total
100-Year Existing Condition Peak Flow Rate:	152.4 cfs	32.6 cfs	185.0 cfs
100-Year Developed Condition Peak Flow Rate:	237.8 cfs	57.4 cfs	295.2 cfs
Difference	85.4 cfs	24.8 cfs	

Offsite runoff pass through: 36.0 cfs

7. DETENTION REQUIRMENTS

The project will provide detention volume for stormwater flow attenuation such that the discharge from the post developed condition 100-year storm will not exceed the pre-developed condition 100-year storm peak flow rate.

Northwest Discharge
Area:
Existing Condition: 152.4
Developed Condition: 237.8
Delta Pre-Post: 85.4

Northeast Discharge
Area:
Existing Condition: 32.6
Developed Condition: 57.4
Delta Pre-Post: 24.8

A reduction of 85.4 cfs and 24.8 cfs for the northwesterly and northeasterly discharge locations will be necessary to meet the required storm water attenuation. Approximalely seventeen acres lying easterly of the project produce approximately 36 cfs of run-on. These flows become concentrated at about mid site along the east property line. The offsite flows will be captured and transported across the project site via an underground storm drain system. The offsite flows will be discharged along with the attenuated developed project flows through the outlet structure located at the northwesterly corner of the project site.

7.1 Determination of Detention Capacity Required

Detention of storm water flows will be provided prior to release offsite to the public storm drain system. The required detention capacity required for the project is calculated using the Small Area Unit Hydrograph procedure discussed in Section J of the County of San Bernardino Hydrology Manual. The procedure is applicable to watersheds whose time of concentration is less than 25 minutes.

The unit hydrograph corresponding to the rational method is a triangle with base 2Tc, and a peak occurring at time Tc*.(San Bernardino Hydrology Manual)*

Modified Rational Method Required Storage Vol. = $2Tc\ (Q_{Incremental})$
The estimated total detention volume is estimated as follows:

Northwesterly:
V= 2(ΔQ)(Tc)(60)/2
ΔQ = 85.4 cfs
Tc = 15.3
V = 2(85.4)(15.3)(60)/2 = 78,400 cf

Northeasterly:
V= 2(ΔQ)(Tc)(60)/2
ΔQ = 24.8 cfs
Tc = 18.9
V = 2(24.8)(18.9)(60)/2 = 28,150 cf

The sizing of the individual detention basins are based upon the procedures described in the Federal Highway Administration “Hydraulic Engineering Circular No. 22, Third Edition. Circular No. 22 includes the Triangular Hydrograph Method of estimating storage volume required for peak flow attenuation consistent with San Bernardino county methods.

7.2 Proposed Detention Facilities

The proposed project will provide onsite detention basins designed to restrict the post development design flows to less than the existing condition peak flows as outlined above. The detention basins will consist of a combination of conventional open above ground detention basins and underground chamber detention basins located in each drainage area. The following tables indicates the allowable discharge rate and detention volume requirement for each drainage area.

Detention Basin Typical Calculations

Typical detention basin calculations are provided below on two basins to demonstrate the procedure for the detention basin sizing. The remaining detention basin sizing is summarized in the following tables.

Basin No. 13 Open Detention Basin

1. Determine the estimated detention storage volume.

   Qin = 12.1 cfs
   Qout =7.2 Estimated
   ΔQ = 4.9
   Tc=8.1 min Ti=2(Tc)=16.2 min
   Inflow Volume Vr= Qin(Tc)(60) = 12.1(8.1)(60) =5,881
   Storage Volume Estimate Vs = 0.5Ti(Qi-Qo)60 Eq. 8-1 FHWA Hydraulic Engineering Circular No. 22
   Where:
   Vs = Storage volume
   Vr = Inflow volume
   Qi = Flow into basin
   Qo = Flow out of basin
   Ti = Duration of flow Typically 2Tc
   Tc = Time of concentration
   Tp = Time to peak

   Storage Volume, Vs = 0.5(16.2)(12.1-7.2)60 = 2,381 c.f.
   Actual Storage Volume =1,819 c.f.

2. Calculate the peak flow reduction using the actual storage volume.

Estimated Peak Flow Reduction
Qo/Qi = 1 - .712(Vs/Vr)$^{1.328}$ (Ti/Tp)$^{0.546}$ Eq. 8-5 FHWA Hydraulic Engineering Circular No. 22
= 1 - .712(1819/5881)$^{1.328}$ (16.2/8.1)$^{0.546}$
=1 - .712(0.21)(1.46) = .782
Qo = .782(12.1) = 9.5 cfs Less than 12.1 OK

3. Calculate the actual flow rate released based upon the orifice size of the outlet structure.

   The outlet is a parkway culvert opening is 5.5' wide by 4" high. The ponded water depth is 1.33'
   Q = CA(2gH)$^{0.5}$
   Q = .6(5.5x.33)(64.4x1.16)$^{.5}$
   Q = 9.4 cfs
   Basin No. 13 is providing a peak flow reduction of 12.1 – 9.4 = 2.7 cfs

Basin No. 8 Underground Chambers

1. Determine the estimated detention storage volume.

   Qin = 29.7 cfs
   Qout =14.8 Estimated
   ΔQ = 14.9
   Tc=10.1 min Ti=2(Tc)=20.2 min
   Inflow Volume Vr= Qin(Tc)(60) = 29.7(10.1)(60) =17,998

2. Calculate the peak flow reduction using the actual storage volume.

   Estimated Peak Flow Reduction
   Actual storage volume 7337 cf

   $Qo/Qi = 1 - .712(Vs/Vr)^{1.328} (Ti/Tp)^{0.546}$
   $= 1 - .712(7337/17998)^{1.328} (20.2/10.1)^{0.546}$
   $=1 - .712(0.30)(1.46) = .684$
   Qo = .657(29.7) = 20.3 N.G. Increase Basin volume to 10,797 cf

Actual storage volume: 10,797 cf

$Qo/Qi = 1 - .712(Vs/Vr)^{1.328} (Ti/Tp)^{0.546}$
$= 1 - .712(10797/17998)^{1.328} (20.2/10.1)^{0.546}$
$=1 - .712(0.51)(1.46) = .473$
Qo = .473(29.7) = 14.0 cfs OK

3. Calculate the actual flow rate released based upon the orifice size of the outlet structure.

   The outlet is an 18" pipe with a 1.3' diameter orifice The pond water depth is 6.0'
   $Q = CA(2gH)^{0.5}$
   $Q = .6(1.33)(64.4x5.33)^{.5}$
   Q = 14.8 cfs
   Basin No. 8 is providing a peak flow reduction of 29.7 – 14.8 = 14.9 cfs

Each of the remining underground and above ground detention basins capacity and release is summarized in the following tables.

Table 1. Northwest Discharge of Detention Basin Flow Rates and Volumes

Drainage Area	Area	Qin	Estimated Qout	Tc	2Tc	Total Volume Vr	Estimated Storage Volume Vs	Actual Storage Volume Vs	Estimated Qout	Length of 60" Dia Pipe/Basin Size (L x W)	Actual Qout per office size
1	1.37	5.77	3.4	7.5	15	2,597	1,058	1,767	2.2	90	2.3
2	4.36	15.34	9.1	9.7	19.4	8,928	3,639	4,515	8.9	230	8.9
3	6.81	31.6	19.1	6.6	13.2	12,514	5,101	6,772	17.1	345	17.1
4	5.06	20.3	12.0	8.1	16.2	9,866	4,022	5,104	11.5	260	11.6
5	4.79	17.05	10.1	8.1	16.2	8,286	3,378	4,515	9.1	230	8.9
6	8.9	30.4	18.4	10.1	20.2	18,422	7,509	9,815	16.7	500	14.8
7	8.98	28.3	17.2	10.1	20.2	17,150	6,991	9,815	14.3	500	15.9
8	8.91	29.7	14.8	10.1	20.2	17,998	9,029	10,797	14.0	550	14.8
9	8.99	26.8	16.3	10.1	20.2	16,241	6,620	8,637	14.8	440	14.8
13	3.03	12.1	7.2	8.1	16.2	5,881	2,397	1,819	9.5	205’ x 6.6’	9.4
14	1.64	6.87	4.1	7.5	15	3,092	1,260	1,657	3.8	230’ x 5.5’	3.8
15	1.63	6.5	3.9	8.1	16.2	3,159	1,288	1,586	3.8	230’ x 5.3	3.8
16	1.62	6.57	3.9	7.9	15.8	3,114	1,269	1,332	4.4	230’ x 4.4’	4.4
17	1.62	6.77	4.0	7.5	15	3,047	1,242	1,891	3.0	230’ x 6.3’	3.4
18	1.22	4.81	2.8	8.2	16.4	2,367	965	1,500	2.1	230’ x 5.0’	3.4
19	1.35	5.73	3.4	7.4	14.8	2,544	1,037	2,100	1.1	230’ x 7.0	3.4
20	0.43	1.08	1.1	Unretained					1.1		1.1
21	0.63	1.58	1.6	Unretained					1.6		1.6
Totals	71.34	257.27	152.4			135,204	56,805	73,621	138.8		143.3

Note: Due to the confluence of runoff in the hydrology calculations, the values on these table for peak runoff will be slightly higher.

Table 2. Northwest Detention Basins Orifice Sizing for Flow Attenuation

Drainage Area	Qin (cfs)	Estimated Qout (cfs)	Depth (ft)	H (ft)	Orifice Dia/Width (ft)	Area of Orifice (ft^2)	Q (cfs)(1)	Outlet Type
1	5.77	3.4	6	5.75	0.50	0.20	2.3	Pipe
2	15.34	9.1	6	5.50	1.00	0.79	8.9	Pipe
3	31.6	19.1	6	5.30	1.40	1.54	17.1	Pipe
4	20.3	12.0	6	5.43	1.15	1.04	11.6	Pipe
5	17.05	10.1	6	5.50	1.00	0.79	8.9	Pipe
6	30.4	18.4	6	5.35	1.30	1.33	14.8	Pipe
7	28.3	17.2	6	5.33	1.35	1.43	15.9	Pipe
8	29.7	14.8	6	5.35	1.30	1.33	14.8	Pipe
9	26.8	16.3	6	5.35	1.30	1.33	14.8	Pipe
13	12.1	7.2	1.3	1.16	5.50	1.82	9.4	Parkway Culvert
14	6.87	4.1	1.3	1.16	2.20	0.73	3.8	Parkway Culvert
15	6.5	3.9	1.3	1.16	2.20	0.73	3.8	Parkway Culvert
16	6.57	3.9	1.3	1.16	2.60	0.86	4.4	Parkway Culvert
17	6.77	4.0	1.3	1.16	2.00	0.66	3.4	Parkway Culvert
18	4.81	2.8	1.3	1.16	2.00	0.66	3.4	Parkway Culvert
19	5.73	3.4	1.3	1.16	2.00	0.66	3.4	Parkway Culvert
20	1.08	1.1	unretained				1.1	
21	1.58	1.6	unretained				1.6	
	257.27	152.4					143.4	

(1) Flowrate per orifice flow: $Q=CA(2gH)^{0.5}$

Table 3. Northeast Discharge of Detention Basin Flow Rates and Volumes

Drainage Area	Area	Qin	Estimated Qout	Tc	2Tc	Total Volume Vr	Estimated Storage Volume Vs	Actual Storage Volume Vs	Qout
10	10.5	20.9		5	10	6,270	-	0	-
11	4.38	23.8		5	10	7,140	-	0	-
12	4.25	21.8		6.3	12.6	8,240	-	29,600	-
Totals	19.13	66.5	24.8	6.3	12.6	21,650	28,150	29,600	17.4

Table 4. Northeast Detention Basins Orifice Sizing for Flow Attenuation

Drainage Area	Qin (cfs)	Estimated Qout (cfs)	Depth (ft)	H (ft)	Orifice Dia (ft)	Area of Orifice (ft^2)	Q (cfs)(1)	Outlet Type
10,11,12	66.5	24.8	5	4.25	1.5	1.77	17.5	18” Pipe

(1) Flowrate per orifice flow: $Q=CA(2gH)^{0.5}$

8. HYDRAULIC CALCULATIONS

Hydraulic calculations for pipe sizing and outlet structures for the proposed onsite storm drainage facilities will be prepared with the final storm drain design and specifications.

9. CONCLUSION

The development of the proposed project will increase the 100-year peak flow rate of 185 cubic feet per second to 295 cubic feet per second. As indicated above, the project will provide stormwater detention to attenuate the developed condition peak flow rate to less than that of the pre-developed peak flow rate. The incorporation of several hundred feet of 60-inch diameter underground detention chambers and above ground detention basins will attenuate the peak flow rate as required. See Table 9.1.

The proposed project's storm drain runoff will be discharging into existing stormwater drainage facilities that are maintained by the County of San Bernardino.

The onsite storm drain system will collect runoff in curbs and gutters and flows will be conveyed to the water detention basins. The storm drain discharge at the northwest portion of the site will be through a bubbler outlet since there are no underground storm drains in the vicinity and the relationship of the depth of the onsite storm drain system to the existing street grades along the curb. The excess volume remaining in the storm drain following a storm event will be infiltrated into the underlying soils.

The northeast portion will incorporate a detention basin to attenuate the developed peak flow rate to less than the existing condition peak flow rate. Flows will be discharged to an area currently reserved as a future street.

Table 9.1 Flow and Detention Summary

Drainage Outlet	Existing Flow Rate (cfs)	Developed Condition Flow Rate (cfs)	Attenuated Flow Rate (cfs)
Outlet 1	3.4	5.77	2.3
Outlet 2	9.1	15.3	8.9
Outlet 3	19.1	31.6	17.1
Outlet 4	12.0	20.3	11.6
Outlet 5	10.1	17.1	8.9
Outlet 6	18.4	30.4	14.8
Outlet 7	17.2	28.3	15.9
Outlet 8	14.8	29.7	14.8
Outlet 9	16.3	28.8	14.8
Outlet 13	7.2	12.1	9.4
Outlet 14	4.1	6.87	3.8
Outlet 15	3.9	6.5	3.8
Outlet 16	3.9	6.57	4.4
Outlet 17	4.0	6.77	3.4
Outlet 18	2.8	4.81	3.4
Outlet 19	3.4	5.73	3.4
Outlet 20	1.1	1.1	1.1
Outlet 21	1.6	1.6	1.6
Total	152.4	259.3	143.4
Outlet 10		20.9	Drains to 12
Outlet 11		23.8	Drains to 12
Outlet 12	32.6	21.8	17.4
Total	32.6	66.5	17.4

REFERENCES

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Brater, E.F. and King, “Handbook of Hydraulics, Sixth Ed.,” McGraw Hill, 1976.

County of San Bernardino, Department of Public Works “Hydrology Manual,” August 1986.

County of San Bernardino, Transportation Flood Control Water Resources Division, “Master Drainage Study,” November, 2004.

Moore and Twining Associates, Inc., “Preliminary Geotechnical Engineering Investigation Proposed Electric Charging Truck Station with Travel Center,” July 29, 2022.

U.S. Department of Transportation, “Hydraulic Engineering Circular No. 22, Third Edition, August 2013.

APPENDIX A
PRE AND POST HYDROLOGY CALCULATIONS

EXISTING CONDISTION 100 YEAR OFFSITE

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 ************************************************************************
             RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
          (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)
         (c) Copyright 1983-2012 Advanced Engineering Software (aes)
             Ver. 18.2  Release Date: 05/08/2012  License ID 1542

                           Analysis prepared by:

                        Transtech Engineers, Inc.
                             413 Mackay Drive
                         San Bernardino, CA 92408


 ------------------------------------------------------------------------
   FILE NAME: LEN-EX.DAT
   TIME/DATE OF STUDY: 14:01 05/01/2025
 ========================================================================
   USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
 ========================================================================
                      --*TIME-OF-CONCENTRATION MODEL*--

   USER SPECIFIED STORM EVENT(YEAR) =  100.00
   SPECIFIED MINIMUM PIPE SIZE(INCH) =  18.00
   SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
   *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

   SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.7000
   USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.1100

   *ANTECEDENT MOISTURE CONDITION (AMC) II ASSUMED FOR RATIONAL METHOD*

   *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
      HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
      WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
 NO.   (FT)      (FT)    SIDE / SIDE/ WAY    (FT)    (FT)   (FT)  (FT)    (n)
 ===  =====  =========  =================  ======  ===== ====== ===== =======
   1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

   GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
     1. Relative Flow-Depth =  0.00 FEET
        as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
     2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
   *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
    OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
   *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    300.00 TO NODE    310.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   955.00
  ELEVATION DATA: UPSTREAM(FEET) =   2245.00  DOWNSTREAM(FEET) =   2214.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   16.214
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.774
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   C        6.01      0.25     1.000    87   16.21
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        2.38      0.34     1.000    82   16.21
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        0.17      0.34     1.000    82   16.21
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.28
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA RUNOFF(CFS) =     19.21
  TOTAL AREA(ACRES) =      8.56   PEAK FLOW RATE(CFS) =     19.21

****************************************************************************
  FLOW PROCESS FROM NODE    310.00 TO NODE    310.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   16.21
  RAINFALL INTENSITY(INCH/HR) =   2.77
  AREA-AVERAGED Fm(INCH/HR) =  0.28
  AREA-AVERAGED Fp(INCH/HR) =  0.28
  AREA-AVERAGED Ap =  1.00
  EFFECTIVE STREAM AREA(ACRES) =       8.56
  TOTAL STREAM AREA(ACRES) =       8.56
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      19.21

****************************************************************************
  FLOW PROCESS FROM NODE    320.00 TO NODE    310.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   820.00
  ELEVATION DATA: UPSTREAM(FEET) =   2243.00  DOWNSTREAM(FEET) =   2214.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   14.996
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.930
```

```
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   C        0.90      0.25     1.000    87   15.00
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        2.71      0.34     1.000    82   15.00
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        0.57      0.34     1.000    82   15.00
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.32
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA RUNOFF(CFS) =      9.80
  TOTAL AREA(ACRES) =      4.18   PEAK FLOW RATE(CFS) =      9.80

****************************************************************************
  FLOW PROCESS FROM NODE    310.00 TO NODE    310.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   15.00
  RAINFALL INTENSITY(INCH/HR) =   2.93
  AREA-AVERAGED Fm(INCH/HR) =  0.32
  AREA-AVERAGED Fp(INCH/HR) =  0.32
  AREA-AVERAGED Ap =  1.00
  EFFECTIVE STREAM AREA(ACRES) =       4.18
  TOTAL STREAM AREA(ACRES) =       4.18
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       9.80

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)      Ap      Ae      HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)     NODE
      1       19.21   16.21    2.774  0.28( 0.28) 1.00        8.6      300.00
      2        9.80   15.00    2.930  0.32( 0.32) 1.00        4.2      320.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)      Ap      Ae      HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)     NODE
      1       28.68   15.00    2.930  0.30( 0.30) 1.00       12.1      320.00
      2       28.42   16.21    2.774  0.30( 0.30) 1.00       12.7      300.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      28.68    Tc(MIN.) =    15.00
  EFFECTIVE AREA(ACRES) =      12.10   AREA-AVERAGED Fm(INCH/HR) =  0.30
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  1.00
  TOTAL AREA(ACRES) =       12.7
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    310.00 =     955.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    310.00 TO NODE    330.00 IS CODE =  52
```

```
----------------------------------------------------------------------------
  >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   2214.00  DOWNSTREAM(FEET) =   2211.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   375.00   CHANNEL SLOPE =  0.0080
  CHANNEL FLOW THRU SUBAREA(CFS) =      28.68
  FLOW VELOCITY(FEET/SEC) =   2.96 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
  TRAVEL TIME(MIN.) =   2.11   Tc(MIN.) =   17.11
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    330.00 =    1330.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    330.00 TO NODE    330.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   17.11
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.672
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        0.11      0.34     1.000    82
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   C        0.27      0.25     1.000    87
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        4.13      0.34     1.000    82
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        0.33      0.34     1.000    82
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.34
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA AREA(ACRES) =    4.84      SUBAREA RUNOFF(CFS) =   10.16
  EFFECTIVE AREA(ACRES) =     16.94   AREA-AVERAGED Fm(INCH/HR) =  0.31
  AREA-AVERAGED Fp(INCH/HR) =  0.31  AREA-AVERAGED Ap =  1.00
  TOTAL AREA(ACRES) =       17.6       PEAK FLOW RATE(CFS) =      36.03
```

EXISTING CONDISTION 100 YEAR ONSITE

```
****************************************************************************
  FLOW PROCESS FROM NODE     10.00 TO NODE     11.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =  1318.00
  ELEVATION DATA: UPSTREAM(FEET) =   2276.50  DOWNSTREAM(FEET) =   2227.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   17.914
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.587
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   C       12.77      0.25     1.000    87   17.91
  NATURAL DESERT COVER
```

```
  "DESERT BRUSH"   (35.0%)   B        4.54      0.34     1.000    82   17.91
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.28
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA RUNOFF(CFS) =     35.98
  TOTAL AREA(ACRES) =     17.31   PEAK FLOW RATE(CFS) =     35.98

****************************************************************************
  FLOW PROCESS FROM NODE     11.00 TO NODE     12.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   17.91
  RAINFALL INTENSITY(INCH/HR) =   2.59
  AREA-AVERAGED Fm(INCH/HR) =  0.28
  AREA-AVERAGED Fp(INCH/HR) =  0.28
  AREA-AVERAGED Ap =  1.00
  EFFECTIVE STREAM AREA(ACRES) =      17.31
  TOTAL STREAM AREA(ACRES) =      17.31
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      35.98

****************************************************************************
  FLOW PROCESS FROM NODE     20.00 TO NODE     21.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   924.00
  ELEVATION DATA: UPSTREAM(FEET) =   2269.30  DOWNSTREAM(FEET) =   2216.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   14.263
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.034
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   C        2.05      0.25     1.000    87   14.26
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        5.44      0.34     1.000    82   14.26
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.32
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA RUNOFF(CFS) =     18.30
  TOTAL AREA(ACRES) =      7.49   PEAK FLOW RATE(CFS) =     18.30

****************************************************************************
  FLOW PROCESS FROM NODE     21.00 TO NODE     21.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   14.26
```

```
  RAINFALL INTENSITY(INCH/HR) =   3.03
  AREA-AVERAGED Fm(INCH/HR) =  0.32
  AREA-AVERAGED Fp(INCH/HR) =  0.32
  AREA-AVERAGED Ap =  1.00
  EFFECTIVE STREAM AREA(ACRES) =       7.49
  TOTAL STREAM AREA(ACRES) =       7.49
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      18.30

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       35.98   17.91    2.587  0.28( 0.28) 1.00      17.3      10.00
      2       18.30   14.26    3.034  0.32( 0.32) 1.00       7.5      20.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       52.50   14.26    3.034  0.29( 0.29) 1.00      21.3      20.00
      2       51.26   17.91    2.587  0.29( 0.29) 1.00      24.8      10.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      52.50    Tc(MIN.) =    14.26
  EFFECTIVE AREA(ACRES) =      21.27   AREA-AVERAGED Fm(INCH/HR) =  0.29
  AREA-AVERAGED Fp(INCH/HR) =  0.29  AREA-AVERAGED Ap =  1.00
  TOTAL AREA(ACRES) =       24.8
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     21.00 =    1318.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     21.00 TO NODE     32.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   14.26
  RAINFALL INTENSITY(INCH/HR) =   3.03
  AREA-AVERAGED Fm(INCH/HR) =  0.29
  AREA-AVERAGED Fp(INCH/HR) =  0.29
  AREA-AVERAGED Ap =  1.00
  EFFECTIVE STREAM AREA(ACRES) =      21.27
  TOTAL STREAM AREA(ACRES) =      24.80
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      52.50

****************************************************************************
  FLOW PROCESS FROM NODE     30.00 TO NODE     31.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   810.00
  ELEVATION DATA: UPSTREAM(FEET) =   2242.00  DOWNSTREAM(FEET) =   2212.00
```

```
  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   14.785
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.959
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   C        8.57      0.25     1.000    87   14.79
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        5.38      0.34     1.000    82   14.79
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   C        1.02      0.25     1.000    87   14.79
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.29
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA RUNOFF(CFS) =     36.01
  TOTAL AREA(ACRES) =     14.97   PEAK FLOW RATE(CFS) =     36.01

****************************************************************************
  FLOW PROCESS FROM NODE     31.00 TO NODE     32.00 IS CODE =  52
----------------------------------------------------------------------------
  >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   2212.00  DOWNSTREAM(FEET) =   2205.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =  1200.00   CHANNEL SLOPE =  0.0058
  CHANNEL FLOW THRU SUBAREA(CFS) =      36.01
  FLOW VELOCITY(FEET/SEC) =   2.69 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
  TRAVEL TIME(MIN.) =   7.43   Tc(MIN.) =   22.21
  LONGEST FLOWPATH FROM NODE     30.00 TO NODE     32.00 =    2010.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     32.00 TO NODE     32.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   22.21
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.225
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   C        0.33      0.25     1.000    87
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   C        0.87      0.25     1.000    87
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B       15.58      0.34     1.000    82
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.34
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA AREA(ACRES) =   16.78      SUBAREA RUNOFF(CFS) =   28.51
  EFFECTIVE AREA(ACRES) =     31.75   AREA-AVERAGED Fm(INCH/HR) =  0.31
  AREA-AVERAGED Fp(INCH/HR) =  0.31  AREA-AVERAGED Ap =  1.00
  TOTAL AREA(ACRES) =       31.8       PEAK FLOW RATE(CFS) =      54.63

****************************************************************************
  FLOW PROCESS FROM NODE     32.00 TO NODE     32.00 IS CODE =   1
```

```
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   22.21
  RAINFALL INTENSITY(INCH/HR) =   2.23
  AREA-AVERAGED Fm(INCH/HR) =  0.31
  AREA-AVERAGED Fp(INCH/HR) =  0.31
  AREA-AVERAGED Ap =  1.00
  EFFECTIVE STREAM AREA(ACRES) =      31.75
  TOTAL STREAM AREA(ACRES) =      31.75
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      54.63

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       52.50   14.26    3.034  0.29( 0.29) 1.00      21.3      20.00
      1       51.26   17.91    2.587  0.29( 0.29) 1.00      24.8      10.00
      2       54.63   22.21    2.225  0.31( 0.31) 1.00      31.8      30.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1      102.42   14.26    3.034  0.30( 0.30) 1.00      41.7      20.00
      2      103.65   17.91    2.587  0.30( 0.30) 1.00      50.4      10.00
      3       97.82   22.21    2.225  0.30( 0.30) 1.00      56.6      30.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     103.65    Tc(MIN.) =    17.91
  EFFECTIVE AREA(ACRES) =      50.40   AREA-AVERAGED Fm(INCH/HR) =  0.30
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  1.00
  TOTAL AREA(ACRES) =       56.6
  LONGEST FLOWPATH FROM NODE     30.00 TO NODE     32.00 =    2010.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     32.00 TO NODE     41.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   17.91
  RAINFALL INTENSITY(INCH/HR) =   2.59
  AREA-AVERAGED Fm(INCH/HR) =  0.30
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  1.00
  EFFECTIVE STREAM AREA(ACRES) =      50.40
  TOTAL STREAM AREA(ACRES) =      56.55
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     103.65
```

```
****************************************************************************
  FLOW PROCESS FROM NODE     40.00 TO NODE     41.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =  1316.00
  ELEVATION DATA: UPSTREAM(FEET) =   2218.90  DOWNSTREAM(FEET) =   2205.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   23.073
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.167
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   C        7.03      0.25     1.000    87   23.07
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        5.56      0.34     1.000    82   23.07
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.29
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA RUNOFF(CFS) =     21.23
  TOTAL AREA(ACRES) =     12.59   PEAK FLOW RATE(CFS) =     21.23

****************************************************************************
  FLOW PROCESS FROM NODE     41.00 TO NODE     32.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   23.07
  RAINFALL INTENSITY(INCH/HR) =   2.17
  AREA-AVERAGED Fm(INCH/HR) =  0.29
  AREA-AVERAGED Fp(INCH/HR) =  0.29
  AREA-AVERAGED Ap =  1.00
  EFFECTIVE STREAM AREA(ACRES) =      12.59
  TOTAL STREAM AREA(ACRES) =      12.59
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      21.23

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)      Ap      Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1      102.42   14.26    3.034  0.30( 0.30) 1.00      41.7      20.00
      1      103.65   17.91    2.587  0.30( 0.30) 1.00      50.4      10.00
      1       97.82   22.21    2.225  0.30( 0.30) 1.00      56.6      30.00
      2       21.23   23.07    2.167  0.29( 0.29) 1.00      12.6      40.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)      Ap      Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
```

```
      1      121.62   14.26    3.034  0.30( 0.30) 1.00      49.4      20.00
      2      123.83   17.91    2.587  0.30( 0.30) 1.00      60.2      10.00
      3      118.89   22.21    2.225  0.30( 0.30) 1.00      68.7      30.00
      4      116.08   23.07    2.167  0.30( 0.30) 1.00      69.1      40.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     123.83    Tc(MIN.) =    17.91
  EFFECTIVE AREA(ACRES) =      60.18   AREA-AVERAGED Fm(INCH/HR) =  0.30
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  1.00
  TOTAL AREA(ACRES) =       69.1
  LONGEST FLOWPATH FROM NODE     30.00 TO NODE     32.00 =    2010.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     41.00 TO NODE     51.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   17.91
  RAINFALL INTENSITY(INCH/HR) =   2.59
  AREA-AVERAGED Fm(INCH/HR) =  0.30
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  1.00
  EFFECTIVE STREAM AREA(ACRES) =      60.18
  TOTAL STREAM AREA(ACRES) =      69.14
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     123.83

****************************************************************************
  FLOW PROCESS FROM NODE     50.00 TO NODE     51.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =  1037.00
  ELEVATION DATA: UPSTREAM(FEET) =   2235.00  DOWNSTREAM(FEET) =   2205.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   17.148
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.667
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        5.46      0.34     1.000    82   17.15
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   C        3.21      0.25     1.000    87   17.15
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA RUNOFF(CFS) =     18.39
  TOTAL AREA(ACRES) =      8.67   PEAK FLOW RATE(CFS) =     18.39

****************************************************************************
  FLOW PROCESS FROM NODE     51.00 TO NODE     51.00 IS CODE =   1
----------------------------------------------------------------------------
```

```
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
================================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   17.15
  RAINFALL INTENSITY(INCH/HR) =   2.67
  AREA-AVERAGED Fm(INCH/HR) =  0.31
  AREA-AVERAGED Fp(INCH/HR) =  0.31
  AREA-AVERAGED Ap =  1.00
  EFFECTIVE STREAM AREA(ACRES) =       8.67
  TOTAL STREAM AREA(ACRES) =       8.67
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      18.39

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1      121.62   14.26    3.034  0.30( 0.30) 1.00      49.4      20.00
      1      123.83   17.91    2.587  0.30( 0.30) 1.00      60.2      10.00
      1      118.89   22.21    2.225  0.30( 0.30) 1.00      68.7      30.00
      1      116.08   23.07    2.167  0.30( 0.30) 1.00      69.1      40.00
      2       18.39   17.15    2.667  0.31( 0.31) 1.00       8.7      50.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1      139.30   14.26    3.034  0.30( 0.30) 1.00      56.7      20.00
      2      141.75   17.15    2.667  0.30( 0.30) 1.00      66.6      50.00
      3      141.59   17.91    2.587  0.30( 0.30) 1.00      68.8      10.00
      4      133.83   22.21    2.225  0.30( 0.30) 1.00      77.3      30.00
      5      130.56   23.07    2.167  0.30( 0.30) 1.00      77.8      40.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     141.75    Tc(MIN.) =    17.15
  EFFECTIVE AREA(ACRES) =      66.59   AREA-AVERAGED Fm(INCH/HR) =  0.30
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  1.00
  TOTAL AREA(ACRES) =       77.8
  LONGEST FLOWPATH FROM NODE     30.00 TO NODE     51.00 =    2010.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     51.00 TO NODE     61.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   17.15
  RAINFALL INTENSITY(INCH/HR) =   2.67
  AREA-AVERAGED Fm(INCH/HR) =  0.30
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  1.00
  EFFECTIVE STREAM AREA(ACRES) =      66.59
```

```
  TOTAL STREAM AREA(ACRES) =      77.81
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     141.75

****************************************************************************
  FLOW PROCESS FROM NODE     60.00 TO NODE     61.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   542.00
  ELEVATION DATA: UPSTREAM(FEET) =   2223.00  DOWNSTREAM(FEET) =   2193.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.618
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.503
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        5.11      0.34     1.000    82   11.62
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.34
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA RUNOFF(CFS) =     14.53
  TOTAL AREA(ACRES) =      5.11   PEAK FLOW RATE(CFS) =     14.53

****************************************************************************
  FLOW PROCESS FROM NODE     61.00 TO NODE     61.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   11.62
  RAINFALL INTENSITY(INCH/HR) =   3.50
  AREA-AVERAGED Fm(INCH/HR) =  0.34
  AREA-AVERAGED Fp(INCH/HR) =  0.34
  AREA-AVERAGED Ap =  1.00
  EFFECTIVE STREAM AREA(ACRES) =       5.11
  TOTAL STREAM AREA(ACRES) =       5.11
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      14.53

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1      139.30   14.26    3.034  0.30( 0.30) 1.00      56.7      20.00
      1      141.75   17.15    2.667  0.30( 0.30) 1.00      66.6      50.00
      1      141.59   17.91    2.587  0.30( 0.30) 1.00      68.8      10.00
      1      133.83   22.21    2.225  0.30( 0.30) 1.00      77.3      30.00
      1      130.56   23.07    2.167  0.30( 0.30) 1.00      77.8      40.00
      2       14.53   11.62    3.503  0.34( 0.34) 1.00       5.1      60.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.
```

```
  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)      Ap      Ae      HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)           (ACRES)     NODE
      1      147.45   11.62    3.503  0.31( 0.31) 1.00      51.3       60.00
      2      151.67   14.26    3.034  0.31( 0.31) 1.00      61.8       20.00
      3      152.44   17.15    2.667  0.31( 0.31) 1.00      71.7       50.00
      4      151.91   17.91    2.587  0.30( 0.30) 1.00      74.0       10.00
      5      142.48   22.21    2.225  0.31( 0.31) 1.00      82.5       30.00
      6      138.95   23.07    2.167  0.31( 0.31) 1.00      82.9       40.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     152.44    Tc(MIN.) =    17.15
  EFFECTIVE AREA(ACRES) =      71.70   AREA-AVERAGED Fm(INCH/HR) =  0.31
  AREA-AVERAGED Fp(INCH/HR) =  0.31  AREA-AVERAGED Ap =  1.00
  TOTAL AREA(ACRES) =       82.9
  LONGEST FLOWPATH FROM NODE     30.00 TO NODE     61.00 =    2010.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     70.00 TO NODE     71.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   740.00
  ELEVATION DATA: UPSTREAM(FEET) =   2236.00  DOWNSTREAM(FEET) =   2190.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   12.857
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.263
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   B        7.73      0.34     1.000    82   12.86
  NATURAL DESERT COVER
  "DESERT BRUSH"   (35.0%)   C        4.53      0.25     1.000    87   12.86
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA RUNOFF(CFS) =     32.58
  TOTAL AREA(ACRES) =     12.26   PEAK FLOW RATE(CFS) =     32.58
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       12.3  TC(MIN.) =     12.86
  EFFECTIVE AREA(ACRES) =     12.26  AREA-AVERAGED Fm(INCH/HR)=  0.31
  AREA-AVERAGED Fp(INCH/HR) =  0.31  AREA-AVERAGED Ap = 1.000
  PEAK FLOW RATE(CFS)   =      32.58
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

DEVELOPED CONDITION 100 YEAR

```
****************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
          (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)
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                              Analysis prepared by:

                            Transtech Engineers, Inc.
                                 413 Mackay Drive
                              San Bernardino, CA 92408


 ----------------------------------------------------------------------------
   FILE NAME: LEN-DEV.DAT
   TIME/DATE OF STUDY: 11:11 05/09/2025
 ============================================================================
   USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
 ============================================================================
                        --*TIME-OF-CONCENTRATION MODEL*--

   USER SPECIFIED STORM EVENT(YEAR) =  100.00
   SPECIFIED MINIMUM PIPE SIZE(INCH) =  18.00
   SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
   *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

   SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.7000
   USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.1100

   *ANTECEDENT MOISTURE CONDITION (AMC) II ASSUMED FOR RATIONAL METHOD*

   *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
      HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
      WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
 NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)   (FT)  (FT)    (n)
 ===  =====  =========  =================  ======  ===== ====== ===== =======
   1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

   GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
     1. Relative Flow-Depth =  0.00 FEET
        as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
     2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
   *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
    OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
   *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

 ****************************************************************************
   FLOW PROCESS FROM NODE     10.00 TO NODE     11.00 IS CODE =  21
 ----------------------------------------------------------------------------
   >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
   >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
 ============================================================================
   INITIAL SUBAREA FLOW-LENGTH(FEET) =   630.00
   ELEVATION DATA: UPSTREAM(FEET) =   2256.60  DOWNSTREAM(FEET) =   2241.50

   Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
   SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.447
   * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.379
```

```
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 C        1.45      0.57      0.100    69    8.45
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.57
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      5.64
  TOTAL AREA(ACRES) =      1.45   PEAK FLOW RATE(CFS) =      5.64

****************************************************************************
  FLOW PROCESS FROM NODE     11.00 TO NODE     12.00 IS CODE =  91
----------------------------------------------------------------------------
  >>>>>COMPUTE "V" GUTTER FLOW TRAVEL TIME THRU SUBAREA<<<<<
============================================================================
  UPSTREAM NODE ELEVATION(FEET) =   2241.50
  DOWNSTREAM NODE ELEVATION(FEET) =   2235.80
  CHANNEL LENGTH THRU SUBAREA(FEET) =   295.00
  "V" GUTTER WIDTH(FEET) =   5.00   GUTTER HIKE(FEET) =  0.100
  PAVEMENT LIP(FEET) =  0.010   MANNING'S N = .0150
  PAVEMENT CROSSFALL(DECIMAL NOTATION) = 0.02000
  MAXIMUM DEPTH(FEET) =   0.50
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.967
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 C        2.91      0.57      0.100    69
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.57
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =     10.74
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   3.84
  AVERAGE FLOW DEPTH(FEET) =   0.29   FLOOD WIDTH(FEET) =   22.90
  "V" GUTTER FLOW TRAVEL TIME(MIN.) =   1.28   Tc(MIN.) =    9.73
  SUBAREA AREA(ACRES) =    2.91       SUBAREA RUNOFF(CFS) =   10.24
  EFFECTIVE AREA(ACRES) =    4.36     AREA-AVERAGED Fm(INCH/HR) =   0.06
  AREA-AVERAGED Fp(INCH/HR) =   0.57  AREA-AVERAGED Ap =   0.10
  TOTAL AREA(ACRES) =        4.4         PEAK FLOW RATE(CFS) =      15.34

  END OF SUBAREA "V" GUTTER HYDRAULICS:
  DEPTH(FEET) =  0.33   FLOOD WIDTH(FEET) =   26.56
  FLOW VELOCITY(FEET/SEC.) =   4.15   DEPTH*VELOCITY(FT*FT/SEC) =   1.35
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     12.00 =     925.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     12.00 TO NODE     13.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2225.00  DOWNSTREAM(FEET) =  2220.00
  FLOW LENGTH(FEET) =    62.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   9.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  16.68
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      15.34
```

```
  PIPE TRAVEL TIME(MIN.) =   0.06    Tc(MIN.) =    9.79
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     13.00 =     987.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     13.00 TO NODE     13.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    9.79
  RAINFALL INTENSITY(INCH/HR) =   3.95
  AREA-AVERAGED Fm(INCH/HR) =  0.06
  AREA-AVERAGED Fp(INCH/HR) =  0.57
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       4.36
  TOTAL STREAM AREA(ACRES) =       4.36
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      15.34

****************************************************************************
  FLOW PROCESS FROM NODE     14.00 TO NODE     15.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   394.00
  ELEVATION DATA: UPSTREAM(FEET) =     55.50  DOWNSTREAM(FEET) =     49.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    7.544
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.739
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 C        1.37      0.57     0.100    69    7.54
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.57
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      5.77
  TOTAL AREA(ACRES) =      1.37   PEAK FLOW RATE(CFS) =      5.77

****************************************************************************
  FLOW PROCESS FROM NODE     15.00 TO NODE     13.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    39.00  DOWNSTREAM(FEET) =    20.00
  FLOW LENGTH(FEET) =   493.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   6.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.82
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       5.77
  PIPE TRAVEL TIME(MIN.) =   0.84    Tc(MIN.) =    8.38
  LONGEST FLOWPATH FROM NODE     14.00 TO NODE     13.00 =     887.00 FEET.
```

```
****************************************************************************
  FLOW PROCESS FROM NODE     13.00 TO NODE     13.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.38
  RAINFALL INTENSITY(INCH/HR) =   4.40
  AREA-AVERAGED Fm(INCH/HR) =  0.06
  AREA-AVERAGED Fp(INCH/HR) =  0.57
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       1.37
  TOTAL STREAM AREA(ACRES) =       1.37
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       5.77

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       15.34    9.79    3.949  0.57( 0.06) 0.10       4.4      10.00
      2        5.77    8.38    4.403  0.57( 0.06) 0.10       1.4      14.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       20.44    8.38    4.403  0.57( 0.06) 0.10       5.1      14.00
      2       20.51    9.79    3.949  0.57( 0.06) 0.10       5.7      10.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      20.51    Tc(MIN.) =     9.79
  EFFECTIVE AREA(ACRES) =       5.73   AREA-AVERAGED Fm(INCH/HR) =  0.06
  AREA-AVERAGED Fp(INCH/HR) =  0.57  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        5.7
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     13.00 =     987.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     13.00 TO NODE     26.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    20.00  DOWNSTREAM(FEET) =    13.00
  FLOW LENGTH(FEET) =   407.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  14.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.99
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      20.51
  PIPE TRAVEL TIME(MIN.) =   0.68    Tc(MIN.) =   10.47
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     26.00 =    1394.00 FEET.
```

```
****************************************************************************
  FLOW PROCESS FROM NODE     23.00 TO NODE     23.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   10.47
  RAINFALL INTENSITY(INCH/HR) =   3.77
  AREA-AVERAGED Fm(INCH/HR) =  0.06
  AREA-AVERAGED Fp(INCH/HR) =  0.57
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       5.73
  TOTAL STREAM AREA(ACRES) =       5.73
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      20.51

****************************************************************************
  FLOW PROCESS FROM NODE     20.00 TO NODE     21.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   440.00
  ELEVATION DATA: UPSTREAM(FEET) =     53.00  DOWNSTREAM(FEET) =     28.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.157
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.464
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 C        2.46      0.57      0.100    69    6.16
  COMMERCIAL                 A        0.93      0.98      0.100    32    6.16
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.68
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     16.46
  TOTAL AREA(ACRES) =      3.39   PEAK FLOW RATE(CFS) =     16.46

****************************************************************************
  FLOW PROCESS FROM NODE     21.00 TO NODE     22.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    18.00  DOWNSTREAM(FEET) =    16.00
  FLOW LENGTH(FEET) =   190.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  15.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.85
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      16.46
  PIPE TRAVEL TIME(MIN.) =   0.40    Tc(MIN.) =    6.56
  LONGEST FLOWPATH FROM NODE     20.00 TO NODE     22.00 =     630.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     22.00 TO NODE     23.00 IS CODE =  81
```

```
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    6.56
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.226
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.12      0.98      0.100    32
  COMMERCIAL                 C        2.30      0.57      0.100    69
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.70
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    3.42      SUBAREA RUNOFF(CFS) =   15.87
  EFFECTIVE AREA(ACRES) =      6.81   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.69  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        6.8       PEAK FLOW RATE(CFS) =      31.61

****************************************************************************
  FLOW PROCESS FROM NODE     22.00 TO NODE     23.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    16.00  DOWNSTREAM(FEET) =    13.00
  FLOW LENGTH(FEET) =   153.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  17.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  11.66
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      31.61
  PIPE TRAVEL TIME(MIN.) =   0.22    Tc(MIN.) =    6.78
  LONGEST FLOWPATH FROM NODE     20.00 TO NODE     23.00 =     783.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     23.00 TO NODE     23.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.78
  RAINFALL INTENSITY(INCH/HR) =   5.11
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.69
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       6.81
  TOTAL STREAM AREA(ACRES) =       6.81
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      31.61

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)      Ap      Ae      HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)           (ACRES)     NODE
      1       20.44    9.06    4.169  0.57( 0.06) 0.10        5.1       14.00
      1       20.51   10.47    3.768  0.57( 0.06) 0.10        5.7       10.00
      2       31.61    6.78    5.108  0.69( 0.07) 0.10        6.8       20.00
```

```
  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       50.39    6.78    5.108  0.64( 0.06) 0.10      10.6      20.00
      2       46.16    9.06    4.169  0.64( 0.06) 0.10      11.9      14.00
      3       43.72   10.47    3.768  0.63( 0.06) 0.10      12.5      10.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      50.39    Tc(MIN.) =     6.78
  EFFECTIVE AREA(ACRES) =      10.63   AREA-AVERAGED Fm(INCH/HR) =  0.06
  AREA-AVERAGED Fp(INCH/HR) =  0.64  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       12.5
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     23.00 =    1394.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     23.00 TO NODE     44.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    13.00  DOWNSTREAM(FEET) =    11.50
  FLOW LENGTH(FEET) =   270.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  27.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.10
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      50.39
  PIPE TRAVEL TIME(MIN.) =   0.56    Tc(MIN.) =    7.33
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     44.00 =    1664.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     44.00 TO NODE     44.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.33
  RAINFALL INTENSITY(INCH/HR) =   4.83
  AREA-AVERAGED Fm(INCH/HR) =  0.06
  AREA-AVERAGED Fp(INCH/HR) =  0.64
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =      10.63
  TOTAL STREAM AREA(ACRES) =      12.54
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      50.39

****************************************************************************
  FLOW PROCESS FROM NODE     40.00 TO NODE     41.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
```

```
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   520.00
  ELEVATION DATA: UPSTREAM(FEET) =   2228.00  DOWNSTREAM(FEET) =   2217.50

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.095
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.511
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE           GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                C        5.06      0.57      0.100    69    8.10
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.57
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     20.28
  TOTAL AREA(ACRES) =      5.06   PEAK FLOW RATE(CFS) =     20.28

****************************************************************************
  FLOW PROCESS FROM NODE     41.00 TO NODE     43.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2208.50  DOWNSTREAM(FEET) =  2207.50
  FLOW LENGTH(FEET) =   400.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.81
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      20.28
  PIPE TRAVEL TIME(MIN.) =   1.39    Tc(MIN.) =    9.48
  LONGEST FLOWPATH FROM NODE     40.00 TO NODE     43.00 =     920.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     43.00 TO NODE     43.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    9.48
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.038
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE           GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                C        1.74      0.57      0.100    69
  COMMERCIAL                A        3.05      0.98      0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.83
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    4.79      SUBAREA RUNOFF(CFS) =   17.05
  EFFECTIVE AREA(ACRES) =      9.85   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.69  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        9.9       PEAK FLOW RATE(CFS) =      35.18

****************************************************************************
  FLOW PROCESS FROM NODE     43.00 TO NODE     44.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
```

```
  ELEVATION DATA: UPSTREAM(FEET) =  2207.50  DOWNSTREAM(FEET) =  2204.50
  FLOW LENGTH(FEET) =   360.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  23.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.47
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      35.18
  PIPE TRAVEL TIME(MIN.) =   0.71    Tc(MIN.) =   10.19
  LONGEST FLOWPATH FROM NODE     40.00 TO NODE     44.00 =    1280.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     44.00 TO NODE     44.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   10.19
  RAINFALL INTENSITY(INCH/HR) =   3.84
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.69
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       9.85
  TOTAL STREAM AREA(ACRES) =       9.85
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      35.18

  ** CONFLUENCE DATA **
   STREAM       Q      Tc    Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       50.39    7.33    4.834  0.64( 0.06) 0.10      10.6      20.00
      1       46.16    9.64    3.993  0.64( 0.06) 0.10      11.9      14.00
      1       43.72   11.05    3.628  0.63( 0.06) 0.10      12.5      10.00
      2       35.18   10.19    3.840  0.69( 0.07) 0.10       9.9      40.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc    Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       82.39    7.33    4.834  0.66( 0.07) 0.10      17.7      20.00
      2       80.79    9.64    3.993  0.66( 0.07) 0.10      21.2      14.00
      3       80.39   10.19    3.840  0.66( 0.07) 0.10      22.0      40.00
      4       76.94   11.05    3.628  0.66( 0.07) 0.10      22.4      10.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      82.39    Tc(MIN.) =     7.33
  EFFECTIVE AREA(ACRES) =      17.72   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.66  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       22.4
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     44.00 =    1664.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     44.00 TO NODE     54.00 IS CODE =  31
----------------------------------------------------------------------------
```

```
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2204.50  DOWNSTREAM(FEET) =  2195.00
  FLOW LENGTH(FEET) =   795.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  30.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  12.05
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      82.39
  PIPE TRAVEL TIME(MIN.) =   1.10    Tc(MIN.) =    8.43
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     54.00 =    2459.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     54.00 TO NODE     54.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
================================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.43
  RAINFALL INTENSITY(INCH/HR) =   4.38
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.66
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =      17.72
  TOTAL STREAM AREA(ACRES) =      22.39
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      82.39

****************************************************************************
  FLOW PROCESS FROM NODE     50.00 TO NODE     51.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
================================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   700.00
  ELEVATION DATA: UPSTREAM(FEET) =   2221.00  DOWNSTREAM(FEET) =   2212.40

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   10.070
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.872
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 C        0.97      0.57      0.100    69   10.07
  COMMERCIAL                 A        5.34      0.98      0.100    32   10.07
  COMMERCIAL                 C        2.59      0.57      0.100    69   10.07
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.81
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     30.36
  TOTAL AREA(ACRES) =      8.90   PEAK FLOW RATE(CFS) =     30.36

****************************************************************************
  FLOW PROCESS FROM NODE     51.00 TO NODE     52.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

```
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2204.00  DOWNSTREAM(FEET) =  2203.00
  FLOW LENGTH(FEET) =   107.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  20.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.72
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      30.36
  PIPE TRAVEL TIME(MIN.) =   0.20    Tc(MIN.) =   10.27
  LONGEST FLOWPATH FROM NODE     50.00 TO NODE     52.00 =     807.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     52.00 TO NODE     53.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2203.00  DOWNSTREAM(FEET) =  2201.00
  FLOW LENGTH(FEET) =   386.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.97
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      30.36
  PIPE TRAVEL TIME(MIN.) =   0.92    Tc(MIN.) =   11.20
  LONGEST FLOWPATH FROM NODE     50.00 TO NODE     53.00 =    1193.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     53.00 TO NODE     53.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
  MAINLINE Tc(MIN.) =   11.20
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.594
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 C        0.19      0.57      0.100    69
  COMMERCIAL                 A        8.79      0.98      0.100    32
  COMMERCIAL                 C        0.02      0.57      0.100    69
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.97
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    9.00      SUBAREA RUNOFF(CFS) =   28.33
  EFFECTIVE AREA(ACRES) =     17.90   AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.89  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       17.9       PEAK FLOW RATE(CFS) =      56.47

****************************************************************************
  FLOW PROCESS FROM NODE     53.00 TO NODE     54.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2201.00  DOWNSTREAM(FEET) =  2195.00
  FLOW LENGTH(FEET) =   305.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  21.9 INCHES
```

```
  PIPE-FLOW VELOCITY(FEET/SEC.) =  13.46
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      56.47
  PIPE TRAVEL TIME(MIN.) =   0.38    Tc(MIN.) =   11.58
  LONGEST FLOWPATH FROM NODE     50.00 TO NODE     54.00 =    1498.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     54.00 TO NODE     54.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   11.58
  RAINFALL INTENSITY(INCH/HR) =   3.51
  AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.89
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =      17.90
  TOTAL STREAM AREA(ACRES) =      17.90
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      56.47

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       82.39    8.43    4.384  0.66( 0.07) 0.10      17.7      20.00
      1       80.79   10.74    3.702  0.66( 0.07) 0.10      21.2      14.00
      1       80.39   11.29    3.573  0.66( 0.07) 0.10      22.0      40.00
      1       76.94   12.16    3.394  0.66( 0.07) 0.10      22.4      10.00
      2       56.47   11.58    3.512  0.89( 0.09) 0.10      17.9      50.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1      134.01    8.43    4.384  0.76( 0.08) 0.10      30.8      20.00
      2      136.08   10.74    3.702  0.76( 0.08) 0.10      37.8      14.00
      3      136.47   11.29    3.573  0.76( 0.08) 0.10      39.5      40.00
      4      135.73   11.58    3.512  0.76( 0.08) 0.10      40.0      50.00
      5      131.46   12.16    3.394  0.76( 0.08) 0.10      40.3      10.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     136.47    Tc(MIN.) =    11.29
  EFFECTIVE AREA(ACRES) =      39.47   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.76  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       40.3
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     54.00 =    2459.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     54.00 TO NODE     64.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

```
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2195.00  DOWNSTREAM(FEET) =  2192.50
  FLOW LENGTH(FEET) =   820.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  60.0 INCH PIPE IS  47.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.13
  ESTIMATED PIPE DIAMETER(INCH) =  60.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     136.47
  PIPE TRAVEL TIME(MIN.) =   1.68    Tc(MIN.) =   12.97
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     64.00 =    3279.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     64.00 TO NODE     64.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   12.97
  RAINFALL INTENSITY(INCH/HR) =   3.24
  AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.76
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =      39.47
  TOTAL STREAM AREA(ACRES) =      40.29
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     136.47

****************************************************************************
  FLOW PROCESS FROM NODE     60.00 TO NODE     61.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   720.00
  ELEVATION DATA: UPSTREAM(FEET) =   2216.00  DOWNSTREAM(FEET) =   2208.40

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   10.498
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.761
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.39      0.98      0.100    32   10.50
  COMMERCIAL                 C        8.52      0.57      0.100    69   10.50
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.58
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     29.69
  TOTAL AREA(ACRES) =      8.91   PEAK FLOW RATE(CFS) =     29.69

****************************************************************************
  FLOW PROCESS FROM NODE     61.00 TO NODE     63.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
```

```
  ELEVATION DATA: UPSTREAM(FEET) =  2200.00  DOWNSTREAM(FEET) =  2198.00
  FLOW LENGTH(FEET) =   562.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  26.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.90
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      29.69
  PIPE TRAVEL TIME(MIN.) =   1.59    Tc(MIN.) =   12.09
  LONGEST FLOWPATH FROM NODE     60.00 TO NODE     63.00 =    1282.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     63.00 TO NODE     63.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   12.09
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.407
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 C        0.01      0.57     0.100    69
  COMMERCIAL                 A        5.54      0.98     0.100    32
  COMMERCIAL                 A        2.81      0.98     0.100    32
  COMMERCIAL                 C        0.63      0.57     0.100    69
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.95
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    8.99      SUBAREA RUNOFF(CFS) =   26.80
  EFFECTIVE AREA(ACRES) =     17.90   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.77  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       17.9       PEAK FLOW RATE(CFS) =      53.66

****************************************************************************
  FLOW PROCESS FROM NODE     63.00 TO NODE     64.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2198.00  DOWNSTREAM(FEET) =  2192.50
  FLOW LENGTH(FEET) =   308.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  21.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  12.82
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      53.66
  PIPE TRAVEL TIME(MIN.) =   0.40    Tc(MIN.) =   12.49
  LONGEST FLOWPATH FROM NODE     60.00 TO NODE     64.00 =    1590.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     64.00 TO NODE     64.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   12.49
  RAINFALL INTENSITY(INCH/HR) =   3.33
```

```
  AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.77
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =      17.90
  TOTAL STREAM AREA(ACRES) =      17.90
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      53.66

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1      134.01   10.12    3.860  0.76( 0.08) 0.10      30.8      20.00
      1      136.08   12.42    3.343  0.76( 0.08) 0.10      37.8      14.00
      1      136.47   12.97    3.243  0.76( 0.08) 0.10      39.5      40.00
      1      135.73   13.26    3.194  0.76( 0.08) 0.10      40.0      50.00
      1      131.46   13.84    3.099  0.76( 0.08) 0.10      40.3      10.00
      2       53.66   12.49    3.330  0.77( 0.08) 0.10      17.9      60.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1      184.55   10.12    3.860  0.76( 0.08) 0.10      45.3      20.00
      2      189.65   12.42    3.343  0.76( 0.08) 0.10      55.6      14.00
      3      189.78   12.49    3.330  0.76( 0.08) 0.10      55.9      60.00
      4      188.68   12.97    3.243  0.76( 0.08) 0.10      57.4      40.00
      5      187.14   13.26    3.194  0.76( 0.08) 0.10      57.9      50.00
      6      181.30   13.84    3.099  0.76( 0.08) 0.10      58.2      10.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     189.78    Tc(MIN.) =    12.49
  EFFECTIVE AREA(ACRES) =      55.93   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.76  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       58.2
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     64.00 =    3279.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     64.00 TO NODE     73.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2192.50  DOWNSTREAM(FEET) =  2192.00
  FLOW LENGTH(FEET) =   780.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  93.0 INCH PIPE IS  70.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.97
  ESTIMATED PIPE DIAMETER(INCH) =  93.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     189.78
  PIPE TRAVEL TIME(MIN.) =   2.61    Tc(MIN.) =   15.10
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     73.00 =    4059.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     73.00 TO NODE     74.00 IS CODE =  31
----------------------------------------------------------------------------
```

```
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2192.00  DOWNSTREAM(FEET) =  2190.00
  FLOW LENGTH(FEET) =   146.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  51.0 INCH PIPE IS  41.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  15.48
  ESTIMATED PIPE DIAMETER(INCH) =  51.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     189.78
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =   15.26
  LONGEST FLOWPATH FROM NODE     10.00 TO NODE     74.00 =    4205.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     74.00 TO NODE     74.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
  MAINLINE Tc(MIN.) =   15.26
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.894
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.43      0.98     0.100    32
  COMMERCIAL                 A        0.63      0.98     0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.06      SUBAREA RUNOFF(CFS) =    2.67
  EFFECTIVE AREA(ACRES) =     56.99   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.77  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       59.3       PEAK FLOW RATE(CFS) =     189.78
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
  FLOW PROCESS FROM NODE     80.00 TO NODE     81.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
================================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =  1000.00
  ELEVATION DATA: UPSTREAM(FEET) =   2263.00  DOWNSTREAM(FEET) =   2216.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.881
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.228
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 C        1.17      0.57     0.100    69    8.88
  COMMERCIAL                 A        1.09      0.98     0.100    32    8.88
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.76
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      8.44
  TOTAL AREA(ACRES) =      2.26   PEAK FLOW RATE(CFS) =      8.44

****************************************************************************
```

```
  FLOW PROCESS FROM NODE     81.00 TO NODE     82.00 IS CODE =  91
----------------------------------------------------------------------------
  >>>>>COMPUTE "V" GUTTER FLOW TRAVEL TIME THRU SUBAREA<<<<<
============================================================================
  UPSTREAM NODE ELEVATION(FEET) =   2216.00
  DOWNSTREAM NODE ELEVATION(FEET) =   2211.30
  CHANNEL LENGTH THRU SUBAREA(FEET) =  1000.00
  "V" GUTTER WIDTH(FEET) =   5.00   GUTTER HIKE(FEET) =  0.100
  PAVEMENT LIP(FEET) =  0.010   MANNING'S N = .0150
  PAVEMENT CROSSFALL(DECIMAL NOTATION) = 0.02000
  MAXIMUM DEPTH(FEET) =   0.50
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.748
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 C        2.24      0.57      0.100    69
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.57
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =     11.19
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   2.21
  AVERAGE FLOW DEPTH(FEET) =   0.37   FLOOD WIDTH(FEET) =   31.28
  "V" GUTTER FLOW TRAVEL TIME(MIN.) =   7.55   Tc(MIN.) =   16.43
  SUBAREA AREA(ACRES) =    2.24       SUBAREA RUNOFF(CFS) =    5.43
  EFFECTIVE AREA(ACRES) =    4.50     AREA-AVERAGED Fm(INCH/HR) =   0.07
  AREA-AVERAGED Fp(INCH/HR) =   0.67  AREA-AVERAGED Ap =   0.10
  TOTAL AREA(ACRES) =        4.5         PEAK FLOW RATE(CFS) =      10.86

  END OF SUBAREA "V" GUTTER HYDRAULICS:
  DEPTH(FEET) =  0.37   FLOOD WIDTH(FEET) =   30.82
  FLOW VELOCITY(FEET/SEC.) =   2.21   DEPTH*VELOCITY(FT*FT/SEC) =   0.81
  LONGEST FLOWPATH FROM NODE     80.00 TO NODE     82.00 =    2000.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     82.00 TO NODE     83.00 IS CODE =  91
----------------------------------------------------------------------------
  >>>>>COMPUTE "V" GUTTER FLOW TRAVEL TIME THRU SUBAREA<<<<<
============================================================================
  UPSTREAM NODE ELEVATION(FEET) =   2211.30
  DOWNSTREAM NODE ELEVATION(FEET) =   2209.10
  CHANNEL LENGTH THRU SUBAREA(FEET) =   328.00
  "V" GUTTER WIDTH(FEET) =   5.00   GUTTER HIKE(FEET) =  0.100
  PAVEMENT LIP(FEET) =  0.010   MANNING'S N = .0150
  PAVEMENT CROSSFALL(DECIMAL NOTATION) = 0.02000
  MAXIMUM DEPTH(FEET) =   0.50
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.523
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 C        0.51      0.57      0.100    69
  COMMERCIAL                 A        0.19      0.98      0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.68
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =     11.64
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   2.55
  AVERAGE FLOW DEPTH(FEET) =   0.36   FLOOD WIDTH(FEET) =   29.60
```

```
  "V" GUTTER FLOW TRAVEL TIME(MIN.) =   2.14   Tc(MIN.) =   18.57
  SUBAREA AREA(ACRES) =    0.70       SUBAREA RUNOFF(CFS) =    1.55
  EFFECTIVE AREA(ACRES) =    5.20     AREA-AVERAGED Fm(INCH/HR) =   0.07
  AREA-AVERAGED Fp(INCH/HR) =   0.67  AREA-AVERAGED Ap =   0.10
  TOTAL AREA(ACRES) =        5.2         PEAK FLOW RATE(CFS) =      11.49

  END OF SUBAREA "V" GUTTER HYDRAULICS:
  DEPTH(FEET) =  0.35   FLOOD WIDTH(FEET) =   29.45
  FLOW VELOCITY(FEET/SEC.) =   2.55   DEPTH*VELOCITY(FT*FT/SEC) =   0.90
  LONGEST FLOWPATH FROM NODE     80.00 TO NODE     83.00 =    2328.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     83.00 TO NODE     84.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2203.00  DOWNSTREAM(FEET) =  2201.00
  FLOW LENGTH(FEET) =   124.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  13.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.31
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      11.49
  PIPE TRAVEL TIME(MIN.) =   0.25    Tc(MIN.) =   18.82
  LONGEST FLOWPATH FROM NODE     80.00 TO NODE     84.00 =    2452.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     84.00 TO NODE     84.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   18.82
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.499
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 C        0.60      0.57      0.100    69
  COMMERCIAL                 A        0.74      0.98      0.100    32
  COMMERCIAL                 C        1.82      0.57      0.100    69
  COMMERCIAL                 A        0.39      0.98      0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.70
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    3.55      SUBAREA RUNOFF(CFS) =    7.76
  EFFECTIVE AREA(ACRES) =      8.75   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.68  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        8.8       PEAK FLOW RATE(CFS) =      19.15

****************************************************************************
  FLOW PROCESS FROM NODE     84.00 TO NODE     85.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2203.00  DOWNSTREAM(FEET) =  2195.00
  FLOW LENGTH(FEET) =    64.00   MANNING'S N =  0.013
```

```
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   9.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  20.77
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      19.15
  PIPE TRAVEL TIME(MIN.) =   0.05    Tc(MIN.) =   18.87
  LONGEST FLOWPATH FROM NODE     80.00 TO NODE     85.00 =    2516.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     85.00 TO NODE     85.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   18.87
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.494
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  NATURAL DESERT COVER
  "JUNIPER-GRASS"  (50.0%)   B        1.66      0.72     1.000    58
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.72
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA AREA(ACRES) =    1.66      SUBAREA RUNOFF(CFS) =    2.65
  EFFECTIVE AREA(ACRES) =     10.41   AREA-AVERAGED Fm(INCH/HR) =  0.17
  AREA-AVERAGED Fp(INCH/HR) =  0.71  AREA-AVERAGED Ap =  0.24
  TOTAL AREA(ACRES) =       10.4       PEAK FLOW RATE(CFS) =      21.75

****************************************************************************
  FLOW PROCESS FROM NODE     85.00 TO NODE     85.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   18.87
  RAINFALL INTENSITY(INCH/HR) =   2.49
  AREA-AVERAGED Fm(INCH/HR) =  0.17
  AREA-AVERAGED Fp(INCH/HR) =  0.71
  AREA-AVERAGED Ap =  0.24
  EFFECTIVE STREAM AREA(ACRES) =      10.41
  TOTAL STREAM AREA(ACRES) =      10.41
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      21.75

****************************************************************************
  FLOW PROCESS FROM NODE     70.00 TO NODE     71.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   600.00
  ELEVATION DATA: UPSTREAM(FEET) =   2214.00  DOWNSTREAM(FEET) =   2007.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.000
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.320
```

```
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                  A        1.01      0.98      0.100    32    5.00
  COMMERCIAL                  A        3.22      0.98      0.100    32    5.00
  COMMERCIAL                  C        0.02      0.57      0.100    69    5.00
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.97
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     23.80
  TOTAL AREA(ACRES) =      4.25   PEAK FLOW RATE(CFS) =     23.80

****************************************************************************
  FLOW PROCESS FROM NODE     71.00 TO NODE     72.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  2200.00  DOWNSTREAM(FEET) =  2198.00
  FLOW LENGTH(FEET) =   466.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  22.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.04
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      23.80
  PIPE TRAVEL TIME(MIN.) =   1.28    Tc(MIN.) =    6.28
  LONGEST FLOWPATH FROM NODE     70.00 TO NODE     72.00 =    1066.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     72.00 TO NODE     73.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    6.28
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.385
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                  C        0.68      0.57      0.100    69
  COMMERCIAL                  A        3.08      0.98      0.100    32
  COMMERCIAL                  A        0.62      0.98      0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.91
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    4.38      SUBAREA RUNOFF(CFS) =   20.87
  EFFECTIVE AREA(ACRES) =      8.63   AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.94  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        8.6       PEAK FLOW RATE(CFS) =      41.10

****************************************************************************
  FLOW PROCESS FROM NODE     73.00 TO NODE     85.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.28
```

```
  RAINFALL INTENSITY(INCH/HR) =   5.39
  AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.94
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       8.63
  TOTAL STREAM AREA(ACRES) =       8.63
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      41.10

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       21.75   18.87    2.494  0.71( 0.17) 0.24      10.4      80.00
      2       41.10    6.28    5.385  0.94( 0.09) 0.10       8.6      70.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       57.36    6.28    5.385  0.83( 0.12) 0.14      12.1      70.00
      2       40.40   18.87    2.494  0.77( 0.14) 0.18      19.0      80.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      57.36    Tc(MIN.) =     6.28
  EFFECTIVE AREA(ACRES) =      12.10   AREA-AVERAGED Fm(INCH/HR) =  0.12
  AREA-AVERAGED Fp(INCH/HR) =  0.83  AREA-AVERAGED Ap =  0.14
  TOTAL AREA(ACRES) =       19.0
  LONGEST FLOWPATH FROM NODE     80.00 TO NODE     85.00 =    2516.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     30.00 TO NODE     31.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   248.00
  ELEVATION DATA: UPSTREAM(FEET) =     32.50  DOWNSTREAM(FEET) =     25.30

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.599
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.839
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.48      0.98      0.100    32    5.60
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      2.48
  TOTAL AREA(ACRES) =      0.48   PEAK FLOW RATE(CFS) =      2.48

****************************************************************************
  FLOW PROCESS FROM NODE     31.00 TO NODE     32.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
```

```
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =     23.00  DOWNSTREAM(FEET) =     16.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   410.00   CHANNEL SLOPE =  0.0171
  CHANNEL BASE(FEET) =    5.00   "Z" FACTOR =   3.000
  MANNING'S FACTOR = 0.035   MAXIMUM DEPTH(FEET) =   2.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.519
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        2.55      0.98     0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       7.63
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   2.76
  AVERAGE FLOW DEPTH(FEET) =   0.44   TRAVEL TIME(MIN.) =   2.48
  Tc(MIN.) =    8.07
  SUBAREA AREA(ACRES) =     2.55       SUBAREA RUNOFF(CFS) =   10.15
  EFFECTIVE AREA(ACRES) =      3.03     AREA-AVERAGED Fm(INCH/HR) =   0.10
  AREA-AVERAGED Fp(INCH/HR) =   0.98  AREA-AVERAGED Ap =   0.10
  TOTAL AREA(ACRES) =        3.0         PEAK FLOW RATE(CFS) =      12.06

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.56   FLOW VELOCITY(FEET/SEC.) =   3.21
  LONGEST FLOWPATH FROM NODE     30.00 TO NODE     32.00 =     658.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     32.00 TO NODE     32.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.07
  RAINFALL INTENSITY(INCH/HR) =   4.52
  AREA-AVERAGED Fm(INCH/HR) =  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.98
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       3.03
  TOTAL STREAM AREA(ACRES) =       3.03
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      12.06

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   624.00
  ELEVATION DATA: UPSTREAM(FEET) =     25.20  DOWNSTREAM(FEET) =     22.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.454
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.538
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
```

```
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                  A        0.75      0.98      0.100    32   11.45
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      2.32
  TOTAL AREA(ACRES) =      0.75   PEAK FLOW RATE(CFS) =      2.32

****************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    101.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   11.45
  RAINFALL INTENSITY(INCH/HR) =   3.54
  AREA-AVERAGED Fm(INCH/HR) =  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.98
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       0.75
  TOTAL STREAM AREA(ACRES) =       0.75
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       2.32

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    101.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =  1290.00
  ELEVATION DATA: UPSTREAM(FEET) =     80.00  DOWNSTREAM(FEET) =     20.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.854
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.931
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                  C        1.74      0.57      0.100    69    9.85
  COMMERCIAL                  A        0.65      0.98      0.100    32    9.85
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.68
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      8.31
  TOTAL AREA(ACRES) =      2.39   PEAK FLOW RATE(CFS) =      8.31

****************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    101.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  3 ARE:
  TIME OF CONCENTRATION(MIN.) =    9.85
```

```
  RAINFALL INTENSITY(INCH/HR) =   3.93
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.68
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       2.39
  TOTAL STREAM AREA(ACRES) =       2.39
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       8.31

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       12.06    8.07    4.519  0.98( 0.10) 0.10       3.0      30.00
      2        2.32   11.45    3.538  0.98( 0.10) 0.10       0.8     100.00
      3        8.31    9.85    3.931  0.68( 0.07) 0.10       2.4     110.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  3 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       22.01    8.07    4.519  0.87( 0.09) 0.10       5.5      30.00
      2       20.99    9.85    3.931  0.86( 0.09) 0.10       6.1     110.00
      3       19.17   11.45    3.538  0.86( 0.09) 0.10       6.2     100.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      22.01    Tc(MIN.) =     8.07
  EFFECTIVE AREA(ACRES) =       5.52   AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.87  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        6.2
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    101.00 =    1290.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 2220.10  DOWNSTREAM ELEVATION(FEET) = 2217.00
  STREET LENGTH(FEET) =   468.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 30.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0220
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      22.87
    ***STREET FLOW SPLITS OVER STREET-CROWN***
    FULL DEPTH(FEET) =    0.76   FLOOD WIDTH(FEET) =   34.58
    FULL HALF-STREET VELOCITY(FEET/SEC.) =    2.42
```

```
    SPLIT DEPTH(FEET) =    0.20   SPLIT FLOOD WIDTH(FEET) =    2.04
    SPLIT FLOW(CFS) =    0.11   SPLIT VELOCITY(FEET/SEC.) =    0.46
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.76
    HALFSTREET FLOOD WIDTH(FEET) =   34.58
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.42
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.84
  STREET FLOW TRAVEL TIME(MIN.) =   3.22   Tc(MIN.) =   11.30
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.573
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.55      0.98     0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.97
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.55      SUBAREA RUNOFF(CFS) =    1.72
  EFFECTIVE AREA(ACRES) =      6.07    AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.88  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        6.7        PEAK FLOW RATE(CFS) =      22.01
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.75   HALFSTREET FLOOD WIDTH(FEET) =  33.87
  FLOW VELOCITY(FEET/SEC.) =  2.40   DEPTH*VELOCITY(FT*FT/SEC.) =   1.81
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    102.00 =    1758.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    102.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   11.30
  RAINFALL INTENSITY(INCH/HR) =   3.57
  AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.88
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       6.07
  TOTAL STREAM AREA(ACRES) =       6.72
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      22.01

****************************************************************************
  FLOW PROCESS FROM NODE     33.00 TO NODE     34.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   175.00
  ELEVATION DATA: UPSTREAM(FEET) =     23.40  DOWNSTREAM(FEET) =     21.80

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.136
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.477
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
```

```
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                  A        0.17      0.98      0.100    32    6.14
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.82
  TOTAL AREA(ACRES) =      0.17   PEAK FLOW RATE(CFS) =      0.82

****************************************************************************
  FLOW PROCESS FROM NODE     34.00 TO NODE     35.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =     21.80  DOWNSTREAM(FEET) =     17.20
  CHANNEL LENGTH THRU SUBAREA(FEET) =   310.00   CHANNEL SLOPE =  0.0148
  CHANNEL BASE(FEET) =    5.00   "Z" FACTOR =   3.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   2.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.752
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                  A        1.47      0.98      0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.91
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   3.74
  AVERAGE FLOW DEPTH(FEET) =   0.19   TRAVEL TIME(MIN.) =   1.38
  Tc(MIN.) =    7.52
  SUBAREA AREA(ACRES) =     1.47       SUBAREA RUNOFF(CFS) =    6.16
  EFFECTIVE AREA(ACRES) =      1.64     AREA-AVERAGED Fm(INCH/HR) =   0.10
  AREA-AVERAGED Fp(INCH/HR) =   0.98  AREA-AVERAGED Ap =   0.10
  TOTAL AREA(ACRES) =        1.6         PEAK FLOW RATE(CFS) =       6.87

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.26   FLOW VELOCITY(FEET/SEC.) =   4.53
  LONGEST FLOWPATH FROM NODE     33.00 TO NODE     35.00 =     485.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     35.00 TO NODE    102.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.52
  RAINFALL INTENSITY(INCH/HR) =   4.75
  AREA-AVERAGED Fm(INCH/HR) =  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.98
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       1.64
  TOTAL STREAM AREA(ACRES) =       1.64
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       6.87
```

```
  ** CONFLUENCE DATA **
   STREAM       Q      Tc    Intensity   Fp(Fm)     Ap      Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       22.01   11.30    3.573  0.88( 0.09) 0.10       6.1      30.00
      1       20.99   13.10    3.221  0.87( 0.09) 0.10       6.6     110.00
      1       19.17   14.77    2.962  0.87( 0.09) 0.10       6.7     100.00
      2        6.87    7.52    4.752  0.98( 0.10) 0.10       1.6      33.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc    Intensity   Fp(Fm)     Ap      Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       26.47    7.52    4.752  0.91( 0.09) 0.10       5.7      33.00
      2       27.14   11.30    3.573  0.90( 0.09) 0.10       7.7      30.00
      3       25.60   13.10    3.221  0.89( 0.09) 0.10       8.3     110.00
      4       23.40   14.77    2.962  0.89( 0.09) 0.10       8.4     100.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      27.14    Tc(MIN.) =    11.30
  EFFECTIVE AREA(ACRES) =       7.71   AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.90  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        8.4
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    102.00 =    1758.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 2017.00  DOWNSTREAM ELEVATION(FEET) = 2009.00
  STREET LENGTH(FEET) =   825.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 30.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0220
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      29.17
    ***STREET FLOW SPLITS OVER STREET-CROWN***
    FULL DEPTH(FEET) =    0.76   FLOOD WIDTH(FEET) =   34.58
    FULL HALF-STREET VELOCITY(FEET/SEC.) =    2.93
    SPLIT DEPTH(FEET) =    0.35   SPLIT FLOOD WIDTH(FEET) =    9.35
    SPLIT FLOW(CFS) =    1.63   SPLIT VELOCITY(FEET/SEC.) =    1.53
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.76
    HALFSTREET FLOOD WIDTH(FEET) =   34.58
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.93
```

```
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    2.22
  STREET FLOW TRAVEL TIME(MIN.) =   4.69   Tc(MIN.) =   15.99
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.801
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.67      0.98     0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.67      SUBAREA RUNOFF(CFS) =    4.06
  EFFECTIVE AREA(ACRES) =      9.38    AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.91  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       10.0        PEAK FLOW RATE(CFS) =      27.14
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.75   HALFSTREET FLOOD WIDTH(FEET) =  34.19
  FLOW VELOCITY(FEET/SEC.) =  2.93   DEPTH*VELOCITY(FT*FT/SEC.) =   2.21
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    103.00 =    2583.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    103.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   15.99
  RAINFALL INTENSITY(INCH/HR) =   2.80
  AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.91
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       9.38
  TOTAL STREAM AREA(ACRES) =      10.03
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      27.14

****************************************************************************
  FLOW PROCESS FROM NODE     36.00 TO NODE     36.10 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   160.00
  ELEVATION DATA: UPSTREAM(FEET) =     20.00  DOWNSTREAM(FEET) =     15.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.000
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.320
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.15      0.98     0.100    32    5.00
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.84
```

```
  TOTAL AREA(ACRES) =      0.15   PEAK FLOW RATE(CFS) =      0.84

****************************************************************************
  FLOW PROCESS FROM NODE     36.10 TO NODE     37.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =     15.00  DOWNSTREAM(FEET) =     13.30
  CHANNEL LENGTH THRU SUBAREA(FEET) =   285.00   CHANNEL SLOPE =  0.0060
  CHANNEL BASE(FEET) =    5.00   "Z" FACTOR =   3.000
  MANNING'S FACTOR = 0.035   MAXIMUM DEPTH(FEET) =   2.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.529
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.48      0.98     0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.86
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.56
  AVERAGE FLOW DEPTH(FEET) =   0.40   TRAVEL TIME(MIN.) =   3.05
  Tc(MIN.) =    8.05
  SUBAREA AREA(ACRES) =     1.48       SUBAREA RUNOFF(CFS) =    5.90
  EFFECTIVE AREA(ACRES) =      1.63     AREA-AVERAGED Fm(INCH/HR) =   0.10
  AREA-AVERAGED Fp(INCH/HR) =   0.98  AREA-AVERAGED Ap =   0.10
  TOTAL AREA(ACRES) =        1.6         PEAK FLOW RATE(CFS) =       6.50

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.54   FLOW VELOCITY(FEET/SEC.) =   1.83
  LONGEST FLOWPATH FROM NODE     36.00 TO NODE     37.00 =     445.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     37.00 TO NODE    103.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.05
  RAINFALL INTENSITY(INCH/HR) =   4.53
  AREA-AVERAGED Fm(INCH/HR) =  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.98
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       1.63
  TOTAL STREAM AREA(ACRES) =       1.63
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       6.50

****************************************************************************
  FLOW PROCESS FROM NODE     38.00 TO NODE     39.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   160.00
```

```
  ELEVATION DATA: UPSTREAM(FEET) =     15.50  DOWNSTREAM(FEET) =     13.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.318
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.053
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.15      0.98      0.100    32    5.32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.80
  TOTAL AREA(ACRES) =      0.15   PEAK FLOW RATE(CFS) =      0.80

****************************************************************************
  FLOW PROCESS FROM NODE     39.00 TO NODE     39.10 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =     13.00  DOWNSTREAM(FEET) =      9.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   310.00   CHANNEL SLOPE =  0.0129
  CHANNEL BASE(FEET) =    5.00   "Z" FACTOR =   3.000
  MANNING'S FACTOR = 0.035   MAXIMUM DEPTH(FEET) =   2.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.601
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.47      0.98      0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.83
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   2.02
  AVERAGE FLOW DEPTH(FEET) =   0.32   TRAVEL TIME(MIN.) =   2.55
  Tc(MIN.) =    7.87
  SUBAREA AREA(ACRES) =     1.47       SUBAREA RUNOFF(CFS) =    5.96
  EFFECTIVE AREA(ACRES) =      1.62     AREA-AVERAGED Fm(INCH/HR) =   0.10
  AREA-AVERAGED Fp(INCH/HR) =   0.98  AREA-AVERAGED Ap =   0.10
  TOTAL AREA(ACRES) =        1.6          PEAK FLOW RATE(CFS) =       6.57

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.43   FLOW VELOCITY(FEET/SEC.) =   2.41
  LONGEST FLOWPATH FROM NODE     38.00 TO NODE     39.10 =     470.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     39.10 TO NODE    103.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  3 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.87
  RAINFALL INTENSITY(INCH/HR) =   4.60
  AREA-AVERAGED Fm(INCH/HR) =  0.10
```

```
  AREA-AVERAGED Fp(INCH/HR) =  0.98
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       1.62
  TOTAL STREAM AREA(ACRES) =       1.62
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       6.57

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       26.47   12.21    3.383  0.92( 0.09) 0.10       7.3      33.00
      1       27.14   15.99    2.801  0.91( 0.09) 0.10       9.4      30.00
      1       25.60   17.79    2.600  0.90( 0.09) 0.10       9.9     110.00
      1       23.40   19.55    2.434  0.90( 0.09) 0.10      10.0     100.00
      2        6.50    8.05    4.529  0.98( 0.10) 0.10       1.6      36.00
      3        6.57    7.87    4.601  0.98( 0.10) 0.10       1.6      38.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  3 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       36.40    7.87    4.601  0.94( 0.09) 0.10       8.0      38.00
      2       36.49    8.05    4.529  0.94( 0.09) 0.10       8.1      36.00
      3       36.08   12.21    3.383  0.94( 0.09) 0.10      10.6      33.00
      4       35.05   15.99    2.801  0.93( 0.09) 0.10      12.6      30.00
      5       32.92   17.79    2.600  0.92( 0.09) 0.10      13.2     110.00
      6       30.23   19.55    2.434  0.92( 0.09) 0.10      13.3     100.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      36.49    Tc(MIN.) =     8.05
  EFFECTIVE AREA(ACRES) =       8.09   AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.94  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       13.3
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    103.00 =    2583.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 2209.00  DOWNSTREAM ELEVATION(FEET) = 2200.50
  STREET LENGTH(FEET) =   834.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 30.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0220
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200
```

```
    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      39.35
    ***STREET FLOW SPLITS OVER STREET-CROWN***
    FULL DEPTH(FEET) =    0.76   FLOOD WIDTH(FEET) =   34.58
    FULL HALF-STREET VELOCITY(FEET/SEC.) =    3.00
    SPLIT DEPTH(FEET) =    0.58   SPLIT FLOOD WIDTH(FEET) =   20.98
    SPLIT FLOW(CFS) =   11.11   SPLIT VELOCITY(FEET/SEC.) =    2.42
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.76
    HALFSTREET FLOOD WIDTH(FEET) =   34.58
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    3.00
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    2.28
  STREET FLOW TRAVEL TIME(MIN.) =   4.63   Tc(MIN.) =   12.68
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.296
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.99      0.98      0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.99      SUBAREA RUNOFF(CFS) =    5.73
  EFFECTIVE AREA(ACRES) =     10.08    AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.95  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       15.3        PEAK FLOW RATE(CFS) =      36.49
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.76   HALFSTREET FLOOD WIDTH(FEET) =  34.58
  FLOW VELOCITY(FEET/SEC.) =  3.00   DEPTH*VELOCITY(FT*FT/SEC.) =   2.28
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    104.00 =    3417.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    104.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   12.68
  RAINFALL INTENSITY(INCH/HR) =   3.30
  AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.95
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =      10.08
  TOTAL STREAM AREA(ACRES) =      15.27
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      36.49

****************************************************************************
  FLOW PROCESS FROM NODE     55.00 TO NODE     55.10 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   160.00
  ELEVATION DATA: UPSTREAM(FEET) =     22.50  DOWNSTREAM(FEET) =     16.50
```

```
  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.000
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.320
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.14      0.98      0.100    32    5.00
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.78
  TOTAL AREA(ACRES) =      0.14   PEAK FLOW RATE(CFS) =      0.78

****************************************************************************
  FLOW PROCESS FROM NODE     55.10 TO NODE     56.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =     13.50  DOWNSTREAM(FEET) =      9.20
  CHANNEL LENGTH THRU SUBAREA(FEET) =   310.00   CHANNEL SLOPE =  0.0139
  CHANNEL BASE(FEET) =    5.00   "Z" FACTOR =   3.000
  MANNING'S FACTOR = 0.035   MAXIMUM DEPTH(FEET) =   2.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.771
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.47      0.98      0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.92
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   2.09
  AVERAGE FLOW DEPTH(FEET) =   0.32   TRAVEL TIME(MIN.) =   2.47
  Tc(MIN.) =    7.47
  SUBAREA AREA(ACRES) =     1.47       SUBAREA RUNOFF(CFS) =    6.18
  EFFECTIVE AREA(ACRES) =      1.61     AREA-AVERAGED Fm(INCH/HR) =   0.10
  AREA-AVERAGED Fp(INCH/HR) =   0.98  AREA-AVERAGED Ap =   0.10
  TOTAL AREA(ACRES) =        1.6          PEAK FLOW RATE(CFS) =       6.77

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.43   FLOW VELOCITY(FEET/SEC.) =   2.49
  LONGEST FLOWPATH FROM NODE     55.00 TO NODE     56.00 =     470.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE     56.00 TO NODE    104.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.47
  RAINFALL INTENSITY(INCH/HR) =   4.77
  AREA-AVERAGED Fm(INCH/HR) =  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.98
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       1.61
```

```
  TOTAL STREAM AREA(ACRES) =       1.61
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       6.77

****************************************************************************
  FLOW PROCESS FROM NODE     65.00 TO NODE     65.10 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   160.00
  ELEVATION DATA: UPSTREAM(FEET) =   2208.00  DOWNSTREAM(FEET) =   2205.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.128
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.210
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.14      0.98      0.100    32    5.13
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.77
  TOTAL AREA(ACRES) =      0.14   PEAK FLOW RATE(CFS) =      0.77

****************************************************************************
  FLOW PROCESS FROM NODE     65.10 TO NODE     66.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   2202.00  DOWNSTREAM(FEET) =   2199.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   310.00   CHANNEL SLOPE =  0.0097
  CHANNEL BASE(FEET) =    5.00   "Z" FACTOR =   3.000
  MANNING'S FACTOR = 0.035   MAXIMUM DEPTH(FEET) =   2.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.481
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.08      0.98      0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       2.94
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.70
  AVERAGE FLOW DEPTH(FEET) =   0.29   TRAVEL TIME(MIN.) =   3.05
  Tc(MIN.) =    8.17
  SUBAREA AREA(ACRES) =     1.08       SUBAREA RUNOFF(CFS) =    4.26
  EFFECTIVE AREA(ACRES) =      1.22     AREA-AVERAGED Fm(INCH/HR) =   0.10
  AREA-AVERAGED Fp(INCH/HR) =   0.98  AREA-AVERAGED Ap =   0.10
  TOTAL AREA(ACRES) =        1.2         PEAK FLOW RATE(CFS) =       4.81

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.39   FLOW VELOCITY(FEET/SEC.) =   1.98
  LONGEST FLOWPATH FROM NODE     65.00 TO NODE     66.00 =     470.00 FEET.

****************************************************************************
```

```
  FLOW PROCESS FROM NODE     66.00 TO NODE    104.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  3 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.17
  RAINFALL INTENSITY(INCH/HR) =   4.48
  AREA-AVERAGED Fm(INCH/HR) =  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.98
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       1.22
  TOTAL STREAM AREA(ACRES) =       1.22
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       4.81

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)      Ap      Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)           (ACRES)    NODE
      1       36.40   12.50    3.328  0.95( 0.09) 0.10       9.9      38.00
      1       36.49   12.68    3.296  0.95( 0.09) 0.10      10.1      36.00
      1       36.08   16.84    2.702  0.94( 0.09) 0.10      12.6      33.00
      1       35.05   20.62    2.345  0.94( 0.09) 0.10      14.6      30.00
      1       32.92   22.41    2.211  0.93( 0.09) 0.10      15.2     110.00
      1       30.23   24.17    2.098  0.93( 0.09) 0.10      15.3     100.00
      2        6.77    7.47    4.771  0.98( 0.10) 0.10       1.6      55.00
      3        4.81    8.17    4.481  0.98( 0.10) 0.10       1.2      65.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  3 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)      Ap      Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)           (ACRES)    NODE
      1       42.93    7.47    4.771  0.96( 0.10) 0.10       8.7      55.00
      2       43.45    8.17    4.481  0.96( 0.10) 0.10       9.3      65.00
      3       44.63   12.50    3.328  0.96( 0.10) 0.10      12.8      38.00
      4       44.63   12.68    3.296  0.96( 0.10) 0.10      12.9      36.00
      5       42.71   16.84    2.702  0.95( 0.09) 0.10      15.4      33.00
      6       40.77   20.62    2.345  0.94( 0.09) 0.10      17.4      30.00
      7       38.30   22.41    2.211  0.94( 0.09) 0.10      18.0     110.00
      8       35.32   24.17    2.098  0.94( 0.09) 0.10      18.1     100.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      44.63    Tc(MIN.) =    12.68
  EFFECTIVE AREA(ACRES) =      12.91   AREA-AVERAGED Fm(INCH/HR) =  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.96  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       18.1
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    104.00 =    3417.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
```

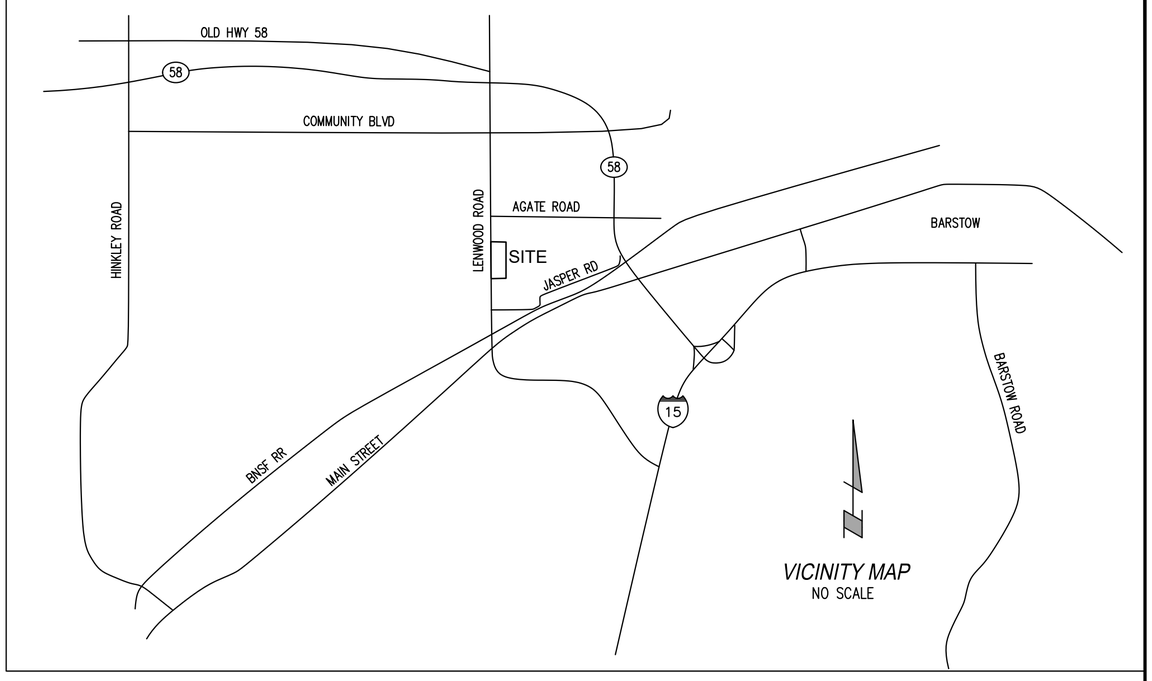
```
==========================================================================
  UPSTREAM ELEVATION(FEET) = 2200.50  DOWNSTREAM ELEVATION(FEET) = 2195.40
  STREET LENGTH(FEET) =   500.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 30.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0220
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      45.40
    ***STREET FLOW SPLITS OVER STREET-CROWN***
    FULL DEPTH(FEET) =    0.76   FLOOD WIDTH(FEET) =   34.58
    FULL HALF-STREET VELOCITY(FEET/SEC.) =    3.01
    SPLIT DEPTH(FEET) =    0.65   SPLIT FLOOD WIDTH(FEET) =   24.80
    SPLIT FLOW(CFS) =   17.16   SPLIT VELOCITY(FEET/SEC.) =    2.71
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.76
    HALFSTREET FLOOD WIDTH(FEET) =   34.58
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    3.01
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    2.28
  STREET FLOW TRAVEL TIME(MIN.) =   2.77   Tc(MIN.) =   15.45
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.869
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.62      0.98     0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.62      SUBAREA RUNOFF(CFS) =    1.55
  EFFECTIVE AREA(ACRES) =     13.53    AREA-AVERAGED Fm(INCH/HR) =  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.96  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       18.7        PEAK FLOW RATE(CFS) =      44.63
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.76   HALFSTREET FLOOD WIDTH(FEET) =  34.58
  FLOW VELOCITY(FEET/SEC.) =  3.01   DEPTH*VELOCITY(FT*FT/SEC.) =   2.28
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    105.00 =    3917.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    105.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
==========================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   15.45
  RAINFALL INTENSITY(INCH/HR) =   2.87
  AREA-AVERAGED Fm(INCH/HR) =  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.96
```

```
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =      13.53
  TOTAL STREAM AREA(ACRES) =      18.72
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      44.63

****************************************************************************
  FLOW PROCESS FROM NODE     75.00 TO NODE     76.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   160.00
  ELEVATION DATA: UPSTREAM(FEET) =   2203.00  DOWNSTREAM(FEET) =   2199.80

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.062
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.266
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE           GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                A        0.14      0.98      0.100    32    5.06
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.78
  TOTAL AREA(ACRES) =      0.14   PEAK FLOW RATE(CFS) =      0.78

****************************************************************************
  FLOW PROCESS FROM NODE     76.00 TO NODE     77.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   2196.80  DOWNSTREAM(FEET) =   2194.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   255.00   CHANNEL SLOPE =  0.0110
  CHANNEL BASE(FEET) =    5.00   "Z" FACTOR =   3.000
  MANNING'S FACTOR = 0.035   MAXIMUM DEPTH(FEET) =   2.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.817
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE           GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                A        1.21      0.98      0.100    32
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.38
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.84
  AVERAGE FLOW DEPTH(FEET) =   0.31   TRAVEL TIME(MIN.) =   2.31
  Tc(MIN.) =    7.37
  SUBAREA AREA(ACRES) =     1.21       SUBAREA RUNOFF(CFS) =    5.14
  EFFECTIVE AREA(ACRES) =      1.35     AREA-AVERAGED Fm(INCH/HR) =   0.10
  AREA-AVERAGED Fp(INCH/HR) =   0.98  AREA-AVERAGED Ap =   0.10
  TOTAL AREA(ACRES) =        1.4         PEAK FLOW RATE(CFS) =       5.73

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.42   FLOW VELOCITY(FEET/SEC.) =   2.17
  LONGEST FLOWPATH FROM NODE     75.00 TO NODE     77.00 =     415.00 FEET.
```

```
****************************************************************************
  FLOW PROCESS FROM NODE     77.00 TO NODE    105.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.37
  RAINFALL INTENSITY(INCH/HR) =   4.82
  AREA-AVERAGED Fm(INCH/HR) =  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.98
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       1.35
  TOTAL STREAM AREA(ACRES) =       1.35
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       5.73

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)      Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       42.93   10.25    3.825  0.96( 0.10) 0.10       9.3      55.00
      1       43.45   10.95    3.652  0.96( 0.10) 0.10      10.0      65.00
      1       44.63   15.27    2.893  0.96( 0.10) 0.10      13.4      38.00
      1       44.63   15.45    2.869  0.96( 0.10) 0.10      13.5      36.00
      1       42.71   19.61    2.428  0.95( 0.10) 0.10      16.0      33.00
      1       40.77   23.39    2.147  0.94( 0.09) 0.10      18.1      30.00
      1       38.30   25.19    2.038  0.94( 0.09) 0.10      18.6     110.00
      1       35.32   26.95    1.944  0.94( 0.09) 0.10      18.7     100.00
      2        5.73    7.37    4.817  0.98( 0.10) 0.10       1.4      75.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)      Ap     Ae     HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1       44.83    7.37    4.817  0.96( 0.10) 0.10       8.0      75.00
      2       47.46   10.25    3.825  0.96( 0.10) 0.10      10.6      55.00
      3       47.77   10.95    3.652  0.96( 0.10) 0.10      11.3      65.00
      4       48.02   15.27    2.893  0.96( 0.10) 0.10      14.7      38.00
      5       48.00   15.45    2.869  0.96( 0.10) 0.10      14.9      36.00
      6       45.54   19.61    2.428  0.95( 0.10) 0.10      17.4      33.00
      7       43.26   23.39    2.147  0.94( 0.09) 0.10      19.4      30.00
      8       40.66   25.19    2.038  0.94( 0.09) 0.10      20.0     110.00
      9       37.57   26.95    1.944  0.94( 0.09) 0.10      20.1     100.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      48.02    Tc(MIN.) =    15.27
  EFFECTIVE AREA(ACRES) =      14.74   AREA-AVERAGED Fm(INCH/HR) =  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.96  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       20.1
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    105.00 =    3917.00 FEET.
============================================================================
  END OF STUDY SUMMARY:
```

```
  TOTAL AREA(ACRES)      =       20.1  TC(MIN.) =     15.27
  EFFECTIVE AREA(ACRES) =     14.74  AREA-AVERAGED Fm(INCH/HR)=  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.96  AREA-AVERAGED Ap = 0.100
  PEAK FLOW RATE(CFS)    =      48.02

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)      Ap      Ae      HEADWATER
   NUMBER     (CFS)   (MIN.) (INCH/HR) (INCH/HR)           (ACRES)     NODE
      1       44.83    7.37    4.817  0.96( 0.10) 0.10       8.0       75.00
      2       47.46   10.25    3.825  0.96( 0.10) 0.10      10.6       55.00
      3       47.77   10.95    3.652  0.96( 0.10) 0.10      11.3       65.00
      4       48.02   15.27    2.893  0.96( 0.10) 0.10      14.7       38.00
      5       48.00   15.45    2.869  0.96( 0.10) 0.10      14.9       36.00
      6       45.54   19.61    2.428  0.95( 0.10) 0.10      17.4       33.00
      7       43.26   23.39    2.147  0.94( 0.09) 0.10      19.4       30.00
      8       40.66   25.19    2.038  0.94( 0.09) 0.10      20.0      110.00
      9       37.57   26.95    1.944  0.94( 0.09) 0.10      20.1      100.00
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

APPENDIX B



LEGEND:

SUB-AREA BOUNDARY	
HYDROLOGIC SOIL TYPE BOUNDARY	
FLOW PATH	
DIRECTION OF FLOW	
NODE NUMBER	NODE 10 / ELEV 225.0
100 YEAR PEAK FLOW RATE FROM SUB-AREA	24.0 CFS

NORTH
SCALE: 1"= 150'

150' 0' 150' 300' 450'
GRAPHIC SCALE: 1" = 150'

REGISTERED PROFESSIONAL ENGINEER
DAVID B. RAGLAND
REG. NO. 35985
CIVIL
STATE OF CALIFORNIA

DAVID B. RAGLAND R.C.E. 35985 DATE

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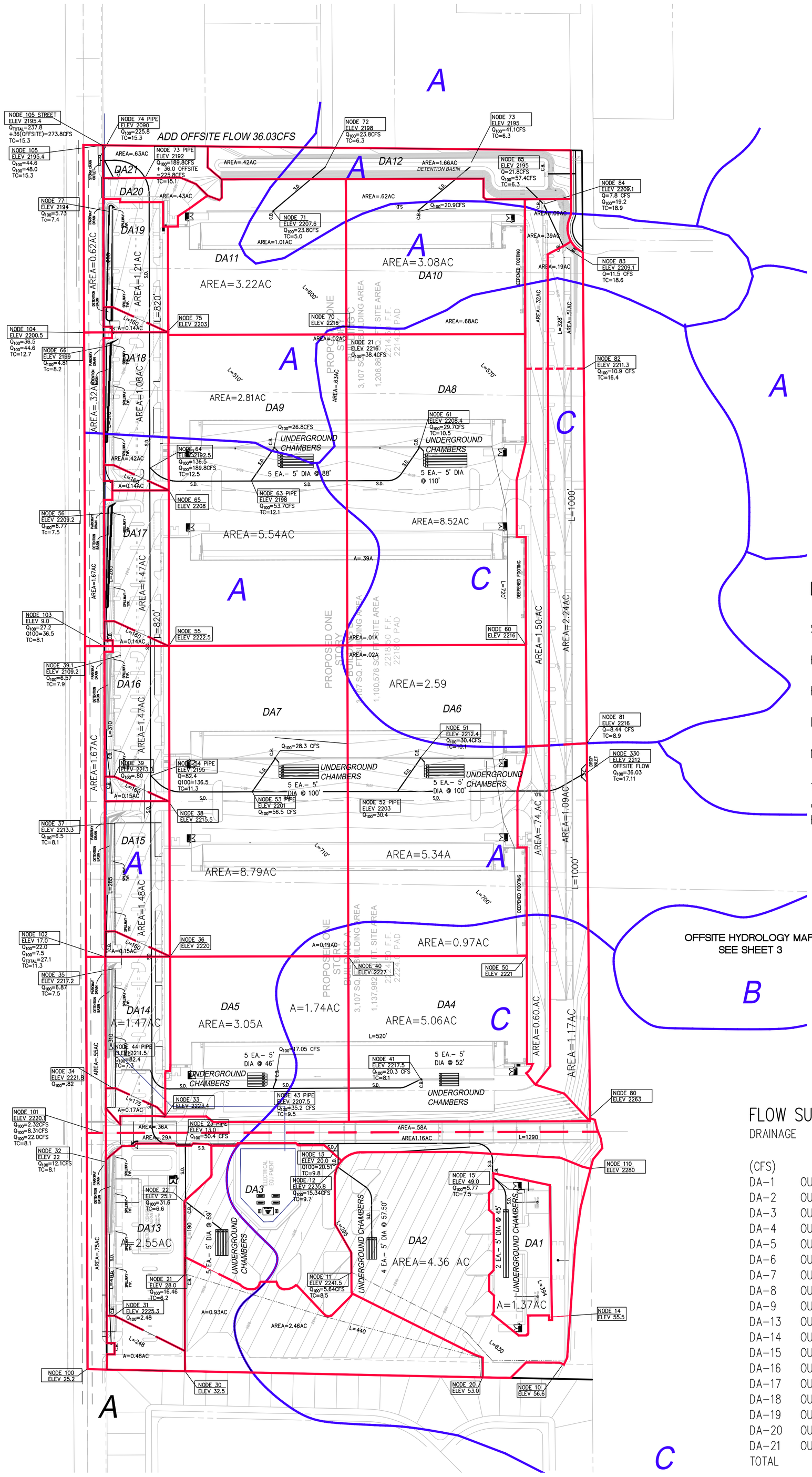
SAN BERNARDINO COUNTY

ELECTRICAL VEHICLE CHARGING STATION AND LOGISTICS FACILITY PROJECT

HYDROLOGY MAP-EXISTING CONDITION

DRAWN BY:	DATE:	SCALE:	SHEET:	JOB NO.
D.R.	09/17/2025	AS SHOWN	1 OF 3	230116



LEGEND:

- SUB-AREA BOUNDARY
- HYDROLOGIC SOIL TYPE BOUNDARY
- FLOW PATH
- DIRECTION OF FLOW
- NODE NUMBER/ELEVATION — NODE 10 / ELEV 225.0
- 100 YEAR PEAK FLOW RATE (CFS) & TIME OF CONCENTRATION (MIN) FROM SUB-AREA — Q_{100} = 24.0, Tc = 9.6

FLOW SUMMARY

DRAINAGE		EXISTING PEAK FLOW	DEVELOPED PEAK FLOW	ATTENUATED FLOW
		(CFS)	(CFS)	(CFS)
DA-1	OUTLET 1	3.4	5.77	2.3
DA-2	OUTLET 2	9.1	15.34	8.9
DA-3	OUTLET 3	19.1	31.6	17.1
DA-4	OUTLET 4	12.0	20.3	11.6
DA-5	OUTLET 5	10.1	17.1	8.9
DA-6	OUTLET 6	18.4	30.4	14.8
DA-7	OUTLET 7	17.2	28.3	15.9
DA-8	OUTLET 8	14.8	29.7	14.8
DA-9	OUTLET 9	16.3	26.8	14.8
DA-13	OUTLET 13	7.2	12.1	9.4
DA-14	OUTLET 14	4.1	6.87	3.8
DA-15	OUTLET 15	3.9	6.5	3.8
DA-16	OUTLET 16	3.9	6.57	4.4
DA-17	OUTLET 17	4.0	6.77	3.4
DA-18	OUTLET 18	2.8	4.81	3.4
DA-19	OUTLET 19	3.4	5.73	3.4
DA-20	OUTLET 20	1.1	1.1	1.1
DA-21	OUTLET 21	1.6	1.6	1.6
TOTAL		152.4	259.3	143.4
DA-10	OUTLET 12		20.9	DRAINS TO 12
DA-11	OUTLET 12		23.8	DRAINS TO 12
DA-12	OUTLET 12	32.6	21.8	17.4
TOTAL		32.6	66.5	17.4

NORTH
SCALE: 1"= 150'

150' 0' 150' 300' 450'
GRAPHIC SCALE: 1" = 150'

REGISTERED PROFESSIONAL ENGINEER
DAVID B. RAGLAND
REG. NO. 35985
CIVIL
STATE OF CALIFORNIA

DAVID B. RAGLAND R.C.E. 35985 DATE

TRANSTECH
413 MACKAY DRIVE.
SAN BERNARDINO, CA. 92408
(909) 384-7464

SAN BERNARDINO COUNTY

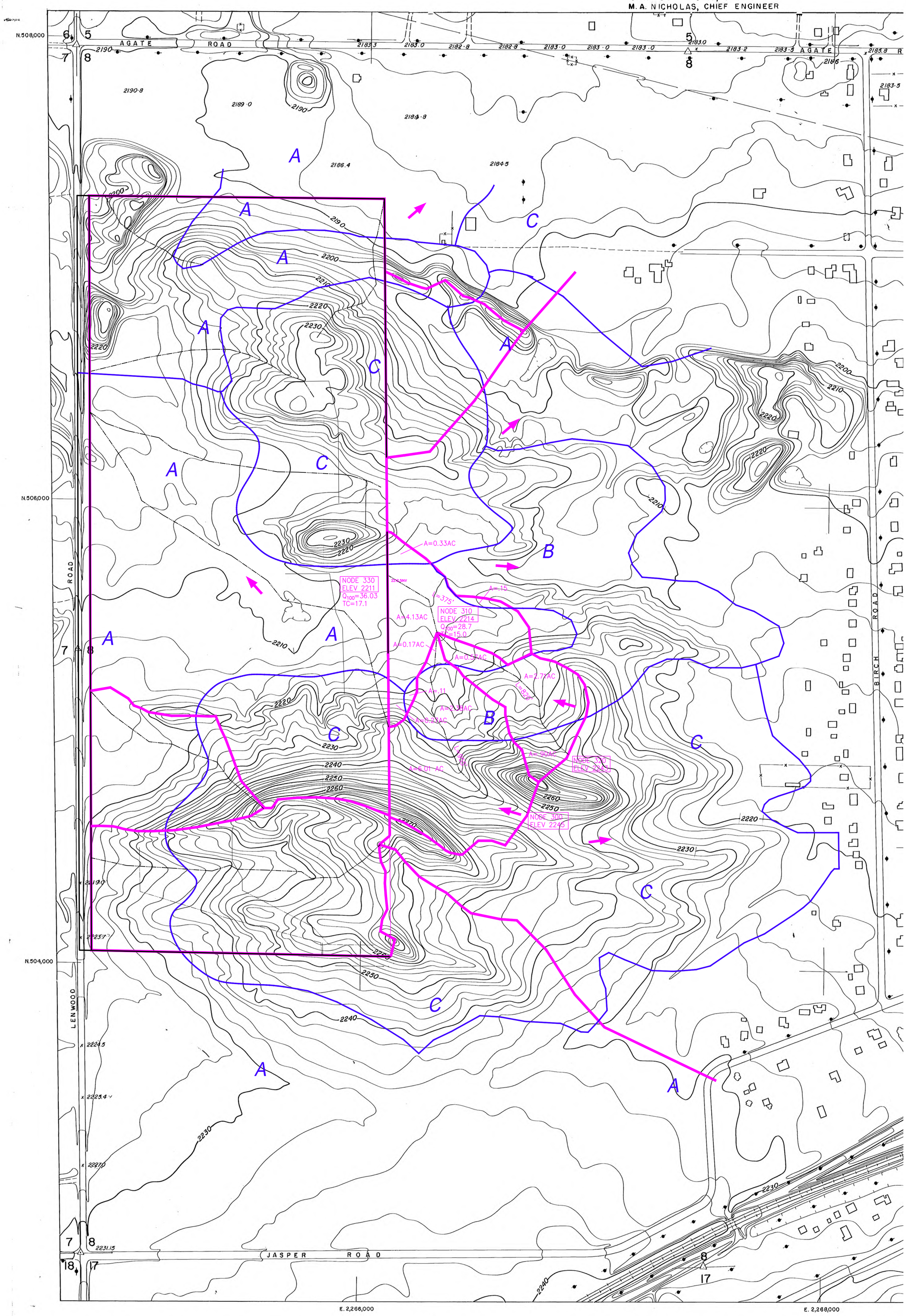
ELECTRICAL VEHICLE CHARGING STATION AND LOGISTICS FACILITY PROJECT

HYDROLOGY MAP-DEVELOPED CONDITION

DRAWN BY:	DATE:	SCALE:	SHEET:	JOB NO.
D.R.	09/17/2025	AS SHOWN	2 OF 3	230116

SAN BERNARDINO COUNTY FLOOD CONTROL D

SAN BERNARDINO, CALIFORNIA
M. A. NICHOLAS, CHIEF ENGINEER



COMPILED BY: HUGH M. GALLAHER - AERIAL SURVEYS
REGISTERED CIVIL ENGINEER RIVERSIDE, CALIF.
MAP PREPARED BY STEREOPHOTOGRAMMETRIC METHODS
FROM PHOTOGRAPHY DATED FEB. 15, 1960
VERTICAL CONTROL POINTS INDICATED ⊙ LABELED

G
0°30'30" 15°15'

SCALE 1:2400

0 200 400 600 800 1000 FEET

CONTOUR INTERVAL 2 FEET
DATUM IS MEAN SEA LEVEL

NORTH
SCALE: 1"= 200'

200' 0' 200' 400' 600'
GRAPHIC SCALE: 1" = 200'

REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

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(909) 384-7464

SAN BERNARDINO COUNTY

ELECTRICAL VEHICLE CHARGING STATION AND LOGISTICS FACILITY PROJECT

HYDROLOGY MAP-OFFSITE

DRAWN BY:	DATE:	SCALE:	SHEET:	JOB NO.
D.R.	09/17/2025	AS SHOWN	3 OF 3	230116

NOAA Atlas 14, Volume 6, Version 2
Location name: Barstow, California, USA*
Latitude: 34.8853°, Longitude: -117.116°
Elevation: 2215 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	**0.082** (0.068-0.102)	**0.114** (0.093-0.141)	**0.158** (0.129-0.196)	**0.196** (0.159-0.244)	**0.250** (0.196-0.322)	**0.294** (0.226-0.386)	**0.341** (0.256-0.458)	**0.392** (0.286-0.541)	**0.464** (0.326-0.667)	**0.524** (0.356-0.778)
10-min	**0.118** (0.097-0.146)	**0.164** (0.134-0.202)	**0.227** (0.185-0.281)	**0.281** (0.227-0.350)	**0.358** (0.281-0.462)	**0.422** (0.324-0.554)	**0.489** (0.367-0.657)	**0.561** (0.411-0.775)	**0.665** (0.468-0.956)	**0.751** (0.510-1.12)
15-min	**0.143** (0.117-0.176)	**0.198** (0.162-0.245)	**0.274** (0.224-0.340)	**0.340** (0.275-0.424)	**0.434** (0.340-0.558)	**0.510** (0.392-0.670)	**0.591** (0.444-0.795)	**0.679** (0.496-0.937)	**0.805** (0.566-1.16)	**0.908** (0.617-1.35)
30-min	**0.200** (0.164-0.246)	**0.277** (0.227-0.342)	**0.384** (0.313-0.475)	**0.475** (0.385-0.593)	**0.606** (0.476-0.781)	**0.713** (0.548-0.936)	**0.826** (0.621-1.11)	**0.949** (0.694-1.31)	**1.12** (0.791-1.62)	**1.27** (0.863-1.88)
60-min	**0.269** (0.220-0.331)	**0.373** (0.305-0.460)	**0.516** (0.421-0.639)	**0.639** (0.518-0.797)	**0.816** (0.640-1.05)	**0.959** (0.737-1.26)	**1.11** (0.835-1.50)	**1.28** (0.934-1.76)	**1.51** (1.06-2.18)	**1.71** (1.16-2.54)
2-hr	**0.359** (0.294-0.443)	**0.485** (0.396-0.598)	**0.656** (0.535-0.812)	**0.801** (0.649-1.00)	**1.01** (0.790-1.30)	**1.17** (0.902-1.54)	**1.35** (1.01-1.81)	**1.53** (1.12-2.12)	**1.80** (1.26-2.58)	**2.01** (1.37-2.98)
3-hr	**0.420** (0.344-0.517)	**0.562** (0.460-0.694)	**0.756** (0.617-0.936)	**0.920** (0.745-1.15)	**1.15** (0.902-1.48)	**1.33** (1.03-1.75)	**1.53** (1.15-2.05)	**1.73** (1.27-2.39)	**2.02** (1.42-2.90)	**2.25** (1.53-3.34)
6-hr	**0.523** (0.428-0.645)	**0.699** (0.572-0.863)	**0.937** (0.764-1.16)	**1.14** (0.919-1.42)	**1.41** (1.11-1.82)	**1.63** (1.26-2.14)	**1.86** (1.40-2.50)	**2.10** (1.54-2.90)	**2.44** (1.71-3.50)	**2.70** (1.84-4.01)
12-hr	**0.612** (0.501-0.755)	**0.826** (0.676-1.02)	**1.11** (0.909-1.38)	**1.35** (1.10-1.69)	**1.69** (1.32-2.17)	**1.95** (1.50-2.56)	**2.22** (1.67-2.99)	**2.51** (1.83-3.46)	**2.90** (2.04-4.17)	**3.22** (2.19-4.78)
24-hr	**0.770** (0.683-0.885)	**1.05** (0.934-1.21)	**1.43** (1.27-1.65)	**1.74** (1.53-2.03)	**2.18** (1.85-2.62)	**2.51** (2.09-3.09)	**2.86** (2.32-3.60)	**3.22** (2.54-4.17)	**3.72** (2.81-5.02)	**4.11** (3.00-5.75)
2-day	**0.893** (0.793-1.03)	**1.23** (1.09-1.42)	**1.68** (1.48-1.94)	**2.04** (1.79-2.38)	**2.54** (2.15-3.05)	**2.92** (2.42-3.58)	**3.30** (2.68-4.16)	**3.70** (2.92-4.80)	**4.24** (3.21-5.73)	**4.66** (3.40-6.52)
3-day	**0.969** (0.860-1.11)	**1.34** (1.19-1.54)	**1.83** (1.62-2.11)	**2.22** (1.94-2.58)	**2.75** (2.33-3.31)	**3.15** (2.62-3.87)	**3.56** (2.88-4.48)	**3.98** (3.13-5.15)	**4.54** (3.43-6.12)	**4.97** (3.63-6.95)
4-day	**1.01** (0.900-1.17)	**1.40** (1.25-1.62)	**1.91** (1.69-2.21)	**2.32** (2.03-2.70)	**2.86** (2.43-3.44)	**3.27** (2.72-4.02)	**3.69** (2.99-4.65)	**4.11** (3.24-5.32)	**4.68** (3.53-6.31)	**5.11** (3.73-7.14)
7-day	**1.10** (0.979-1.27)	**1.52** (1.35-1.75)	**2.05** (1.81-2.37)	**2.47** (2.17-2.88)	**3.03** (2.57-3.65)	**3.45** (2.87-4.24)	**3.87** (3.14-4.88)	**4.30** (3.38-5.56)	**4.86** (3.67-6.56)	**5.28** (3.86-7.38)
10-day	**1.17** (1.04-1.35)	**1.61** (1.42-1.85)	**2.16** (1.91-2.50)	**2.60** (2.28-3.03)	**3.18** (2.70-3.83)	**3.61** (3.00-4.44)	**4.04** (3.27-5.08)	**4.47** (3.52-5.78)	**5.03** (3.80-6.79)	**5.46** (3.98-7.62)
20-day	**1.35** (1.20-1.56)	**1.88** (1.66-2.16)	**2.54** (2.24-2.93)	**3.06** (2.68-3.56)	**3.74** (3.17-4.50)	**4.25** (3.53-5.22)	**4.75** (3.85-5.98)	**5.25** (4.13-6.79)	**5.90** (4.46-7.96)	**6.39** (4.66-8.93)
30-day	**1.52** (1.35-1.75)	**2.13** (1.89-2.45)	**2.90** (2.57-3.35)	**3.52** (3.08-4.09)	**4.32** (3.66-5.20)	**4.92** (4.08-6.04)	**5.51** (4.46-6.94)	**6.10** (4.80-7.90)	**6.87** (5.19-9.28)	**7.46** (5.44-10.4)
45-day	**1.73** (1.53-1.99)	**2.46** (2.18-2.83)	**3.38** (2.99-3.90)	**4.11** (3.61-4.79)	**5.08** (4.31-6.12)	**5.81** (4.82-7.14)	**6.53** (5.29-8.22)	**7.25** (5.72-9.40)	**8.21** (6.21-11.1)	**8.94** (6.52-12.5)
60-day	**1.90** (1.68-2.18)	**2.72** (2.41-3.13)	**3.77** (3.33-4.35)	**4.61** (4.04-5.36)	**5.72** (4.85-6.88)	**6.56** (5.44-8.06)	**7.40** (5.99-9.31)	**8.24** (6.49-10.7)	**9.36** (7.08-12.6)	**10.2** (7.46-14.3)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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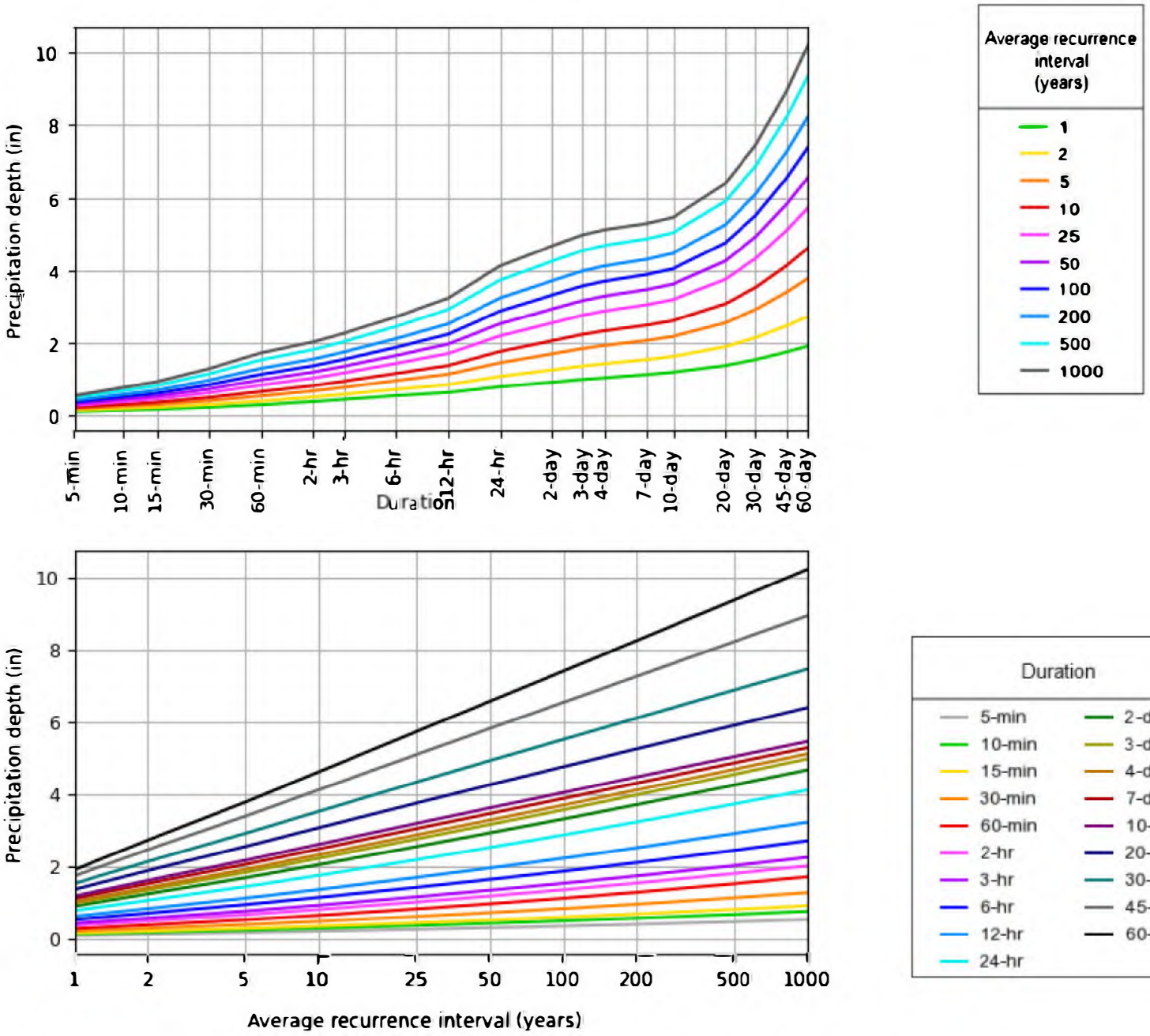
PF graphical

PDS-based depth-duration-frequency (DDF) curves
Latitude: 34.8853°, Longitude: -117.1160°



NOAA Atlas 14, Volume 6, Version 2

Created (GMT): Tue Jul 11 00:34:15 2023

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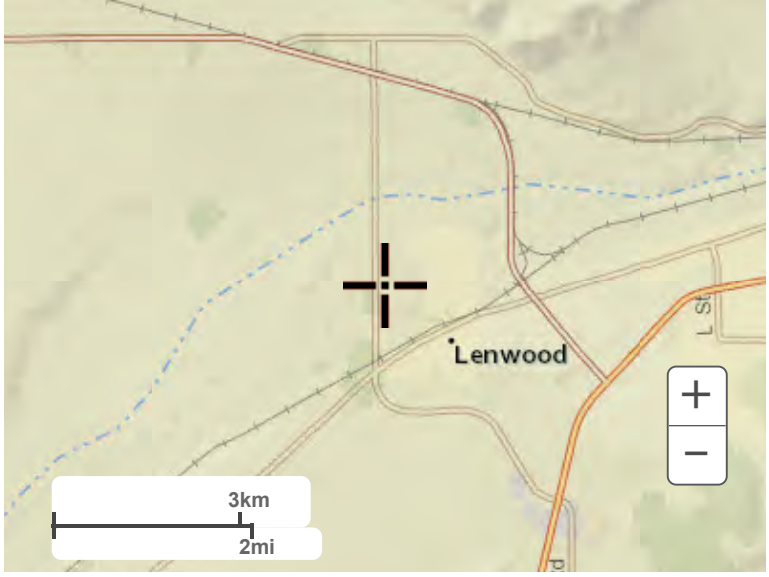
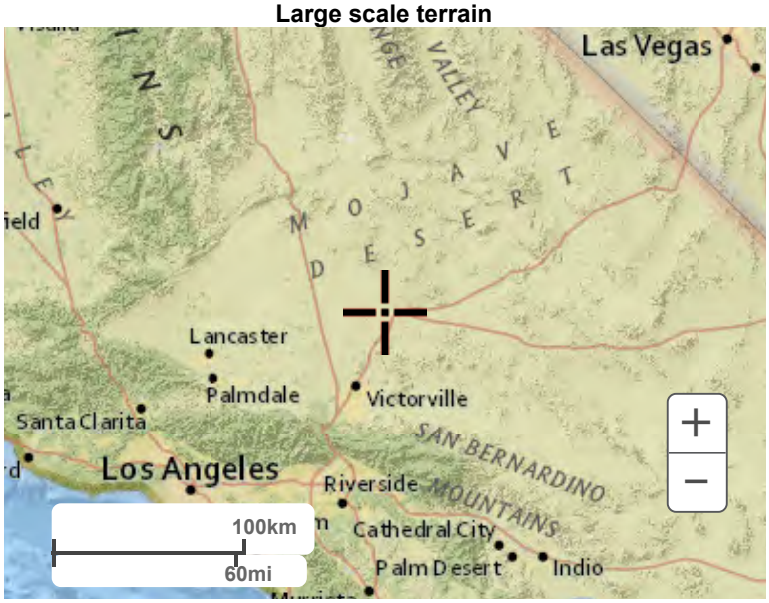
Maps & aerials

Small scale terrain



Large scale terrain



Large scale map

Large scale aerial

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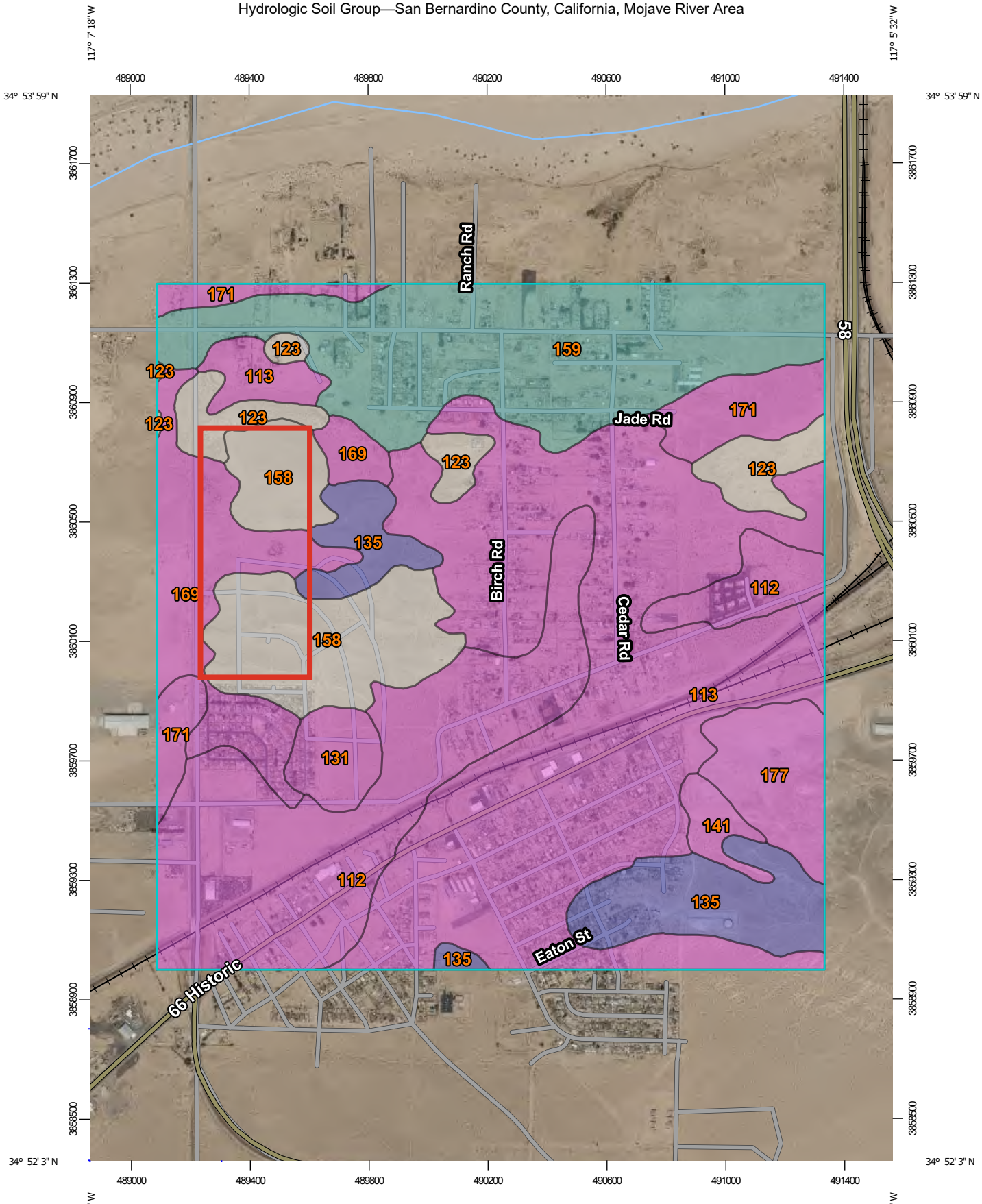
US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer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117° 5' 32" W
34° 53' 59" N
34° 52' 3" N
489000
489400
489800
490200
490600
491000
491400
3861700
3861300
3860900
3860500
3860100
3859700
3859300
3858900
3858500
Ranch Rd
Jade Rd
Birch Rd
Cedar Rd
Eaton St
66 Historic
58
171
123
113
159
169
158
135
112
131
177
141
Map Scale: 1:17,400 if printed on A portrait (8.5" x 11") sheet.
N
Meters
0 250 500 1000 1500
Feet
0 500 1000 2000 3000
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Lines

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Points

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Bernardino County, California, Mojave River Area
Survey Area Data: Version 15, Aug 30, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 17, 2022—Jun 12, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
112	CAJON SAND, 0 TO 2 PERCENT SLOPES	A	212.8	16.6%
113	CAJON SAND, 2 TO 9 PERCENT SLOPES	A	416.3	32.5%
123	DUNE LAND		48.4	3.8%
131	HELENDALE LOAMY SAND, 0 TO 2 PERCENT SLOPES	A	22.0	1.7%
135	JOSHUA LOAM, 2 TO 5 PERCENT SLOPES	B	84.4	6.6%
141	LOVELACE LOAMY SAND, 5 TO 9 PERCENT SLOPES	A	12.2	1.0%
158	ROCK OUTCROP-LITHIC TORRIORTHENTS COMPLEX, 15 TO 50 PERCENT SLOPES*		104.4	8.2%
159	ROSAMOND LOAM, SALINE-ALKALI	C	196.8	15.4%
169	VICTORVILLE SANDY LOAM	A	88.0	6.9%
171	VILLA LOAMY SAND	A	52.4	4.1%
177	YERMO-KIMBERLINA, COOL, ASSOCIATION, SLOPING*	A	42.3	3.3%
Totals for Area of Interest			**1,280.0**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

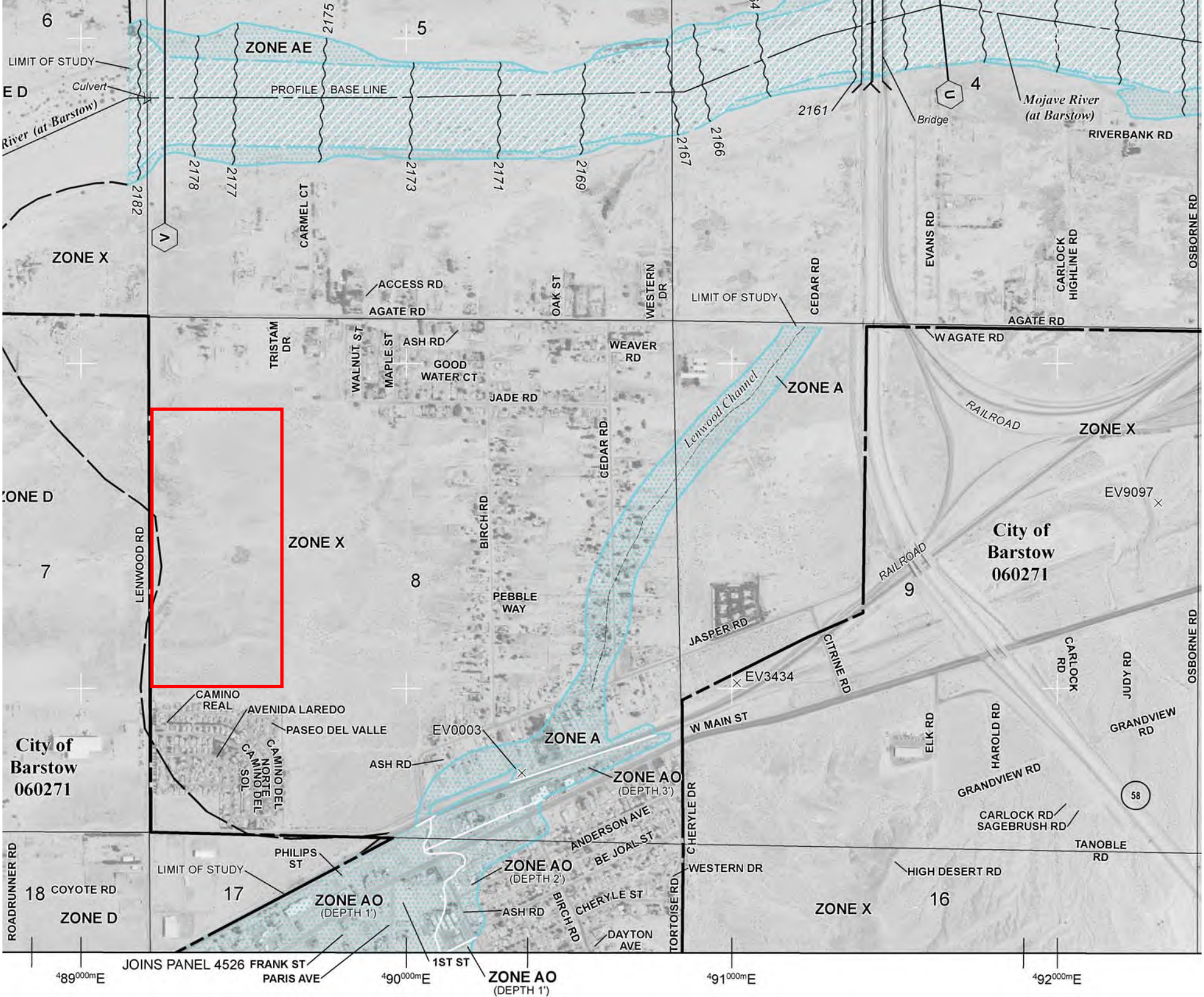
If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher


6
5
4
7
8
9
16
17
18
ZONE AE
ZONE X
ZONE A
ZONE AO
(DEPTH 3')
ZONE AO
(DEPTH 2')
ZONE AO
(DEPTH 1')
ZONE AO
(DEPTH 1')
ZONE D
ZONE D
LIMIT OF STUDY
LIMIT OF STUDY
LIMIT OF STUDY
Culvert
PROFILE BASE LINE
Bridge
Mojave River
(at Barstow)
River (at Barstow)
2182
2178
2177
2175
2173
2171
2169
2167
2166
2161
ACCESS RD
AGATE RD
AGATE RD
W AGATE RD
RIVERBANK RD
CARMEL CT
OAK ST
WESTERN DR
CEDAR RD
EVANS RD
CARLOCK HIGHLINE RD
OSBORNE RD
TRISTAM DR
WALNUT ST
MAPLE ST
ASH RD
GOOD WATER CT
WEAVER RD
JADE RD
Lenwood Channel
RAILROAD
RAILROAD
RAILROAD
LENWOOD RD
BIRCH RD
CEDAR RD
PEBBLE WAY
EV9097
EV3434
EV0003
JASPER RD
CITRINE RD
W MAIN ST
ELK RD
HAROLD RD
GRANDVIEW RD
GRANDVIEW RD
CARLOCK RD
JUDY RD
OSBORNE RD
CAMINO REAL
AVENIDA LAREDO
PASEO DEL VALLE
CAMINO DEL NORTE
CAMINO DEL SOL
ASH RD
City of Barstow 060271
City of Barstow 060271
ANDERSON AVE
BE JOAL ST
CHERYLE DR
CHERYLE ST
BIRCH RD
TORTOISE RD
DAYTON AVE
WESTERN DR
HIGH DESERT RD
CARLOCK RD
SAGEBRUSH RD
TANOBLE RD
58
PHILIPS ST
COYOTE RD
ROADRUNNER RD
JOINS PANEL 4526
FRANK ST
PARIS AVE
1ST ST
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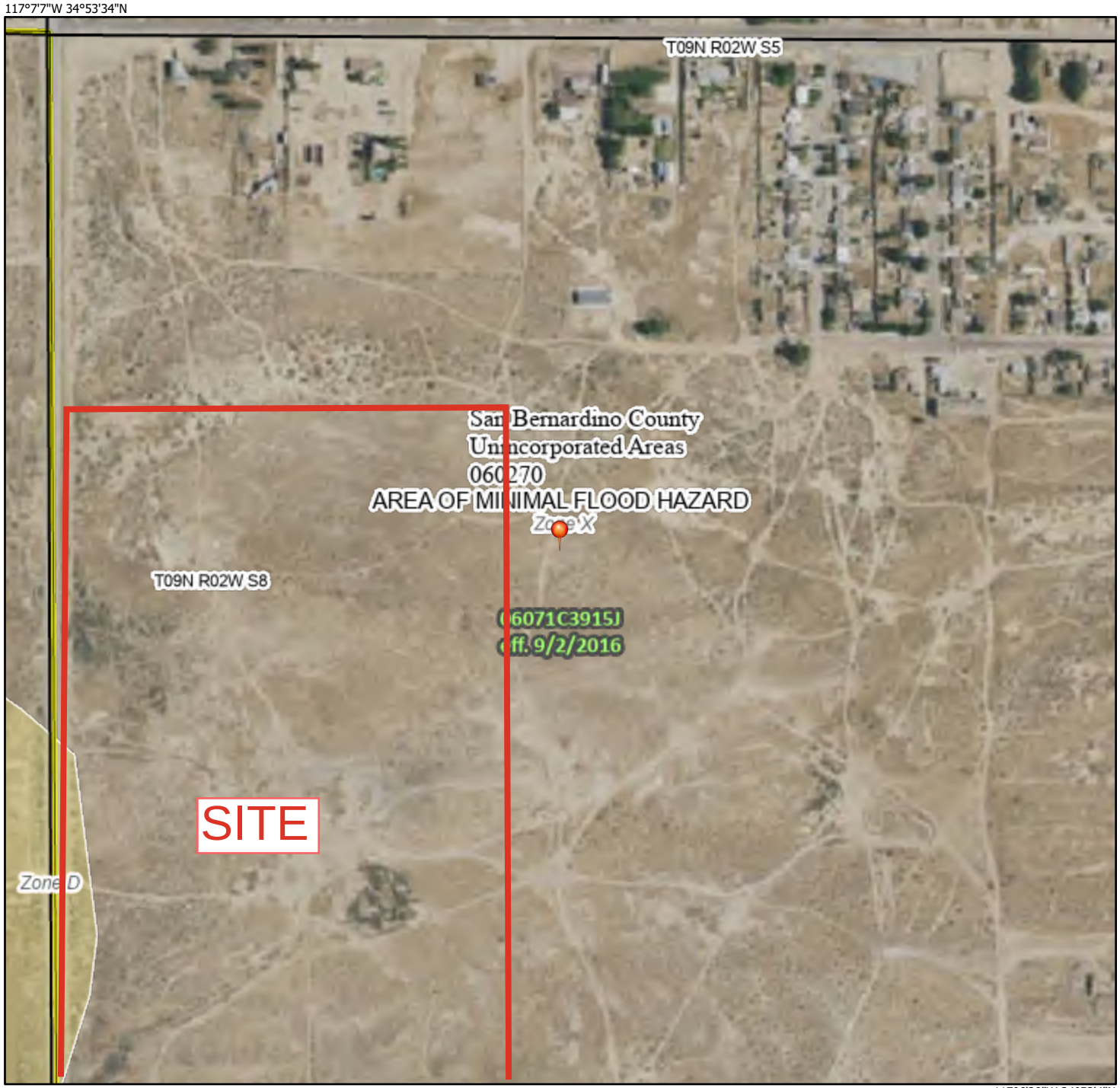
490 000mE
491 000mE
492 000mE

National Flood Hazard Layer FIRMette

FEMA



Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 — Cross Sections with 1% Annual Chance
- 17.5 — Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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National Flood Hazard Layer FIRMette

FEMA

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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Appendix I
Noise Technical Memorandum

NOISE TECHNICAL MEMORANDUM

To:	EVC Partners, LLC
From:	Dana Lodico, PE, INCE Bd. Cert., Dudek
Subject:	Noise and Vibration Assessment –Electric Vehicle Charging Station and Logistics Facility Project
Date:	March 6, 2026
Attachments:	Attachment A: Baseline Sound Measurement Field Data Attachment B: Construction Noise Modeling Input and Output Attachment C: Project Traffic Noise Modeling Worksheets

This report contains Dudek's noise and vibration assessment for the Electric Vehicle Charging Station and Logistics Facility (Project), located in San Bernardino County, California (County). The noise and vibration assessment evaluates noise and vibration from Project construction activities, operational noise from on-site stationary sources (e.g., truck wash, HVAC, etc.) and low-speed on-site vehicle movements, and changes to traffic on the surrounding roadway network. The assessment is consistent with the California Environmental Quality Act Appendix G significance criteria checklist regarding applicable local, regional, state, and federal regulations and guidance.

1 Background

1.1 Project Description and Setting

EVC Partners LLC is proposing to construct and operate the Project, a 20.72-acre electric vehicle (EV) charging station to serve light duty/passenger vehicles and medium and heavy-duty trucks and a state-of-the-art concrete tilt-up logistics facility of 1,341,432 square feet in three buildings located on 79.10 acres. The Project would include a commercial building, truck wash and truck maintenance facility to serve users of the EV charging station.

The Project site is located east of Lenwood Road between Jasper Road and Agate Road approximately 4 miles west of downtown Barstow in unincorporated San Bernardino County. A residential neighborhood ("High Desert Estates") adjoins the site to the south and rural residences are also located to the north and east of the site. These areas are also within unincorporated San Bernardino County. To the west, on the other side of Lenwood Road, is land zoned as Industrial per the City of Barstow (City of Barstow 2015).

1.2 Acoustical Fundamentals

1.2.1 Common Terminology

Although the terms may be used interchangeably in the right context, "sound" is defined as any gas or fluid pressure variation detected by the human ear, and "noise" is unwanted sound. The preferred unit for measuring sound is the decibel (dB), which expresses the ratio of sound pressures to a reference value logarithmically and enables a wide range of audible sounds to be evaluated and discussed conveniently. On the low end of this range, zero dB is not the absence of sound energy, but instead corresponds approximately to the threshold of average healthy human hearing; on the upper end, 120–140 dB corresponds to an average person's threshold of pain.

The human ear is not equally responsive to all frequencies of the audible sound spectrum. An electronic filter is normally used when taking noise measurements that de-emphasizes certain frequencies in a manner that mimics the human ear's response to sound; this method is referred to as A-weighting. Sound levels expressed under the A-weighted system are sometimes designated dBA. All sound levels discussed in this report are A-weighted.

The equivalent continuous sound level (L_{eq}) is a single dB value which, if held constant during the specified time period, would represent the same total acoustical energy of a fluctuating noise level over that same time period; this is also known as the "average" sound level. L_{eq} values are commonly expressed for periods of 1 hour, but longer or shorter time periods may be specified. Another descriptor is maximum sound level (L_{max}), which is the greatest sound level measured during a designated time interval or event. The minimum sound level (L_{min}) is the lowest measured level and often called the floor of a measurement period. The statistical sound level (L_{xx}) is a statistical value corresponding with the decibel level exceeded for a cumulative percent (XX%) over a defined time period. The "L-fifty" value (L_{50}) is a decibel level exceeded 50% during a given measurement period (such as 30 minutes out for an hour).

Unlike the L_{eq}, L_{max}, and L_{min} metrics, equivalent day–night sound level (L_{dn}) and community noise equivalent level (CNEL) descriptors always represent 24-hour periods; these metrics differ from a 24-hour L_{eq} value because they apply a time-weighted factor designed to emphasize noise events that occur during the non-daytime hours (when speech and sleep disturbance is of more concern). "Time weighted" refers to the fact that L_{dn} and CNEL penalize noise that occurs during certain sensitive periods. In the case of CNEL, noise occurring during the daytime (7:00 a.m. to 7:00 p.m.) receives no penalty. Noise during the evening (7:00 p.m. to 10:00 p.m.) is penalized by adding 5 dB to the actual levels, and nighttime (10:00 p.m. to 7:00 a.m.) noise is penalized by adding 10 dB to the actual levels. L_{dn} differs from CNEL in that the daytime period is longer (defined instead as 7:00 a.m. to 10:00 p.m.), thus eliminating the dB adjustment for the evening period. L_{dn} and CNEL are the predominant criteria used to measure roadway noise affecting residential receptors. These two metrics generally differ from one another by no more than 0.5–1 dB and are considered equivalent by many jurisdictions.

1.2.2 Exterior Noise Attenuation

Noise sources are classified in two forms: (1) point sources, such as stationary equipment or a group of construction vehicles and equipment working within a spatially limited area at a given time, and (2) line sources, such as a roadway with a large number of pass-by sources (motor vehicles). Sound generated by a point source typically diminishes (attenuates) at a rate of 6.0 dBA for each doubling of distance from the source to the receptor at acoustically "hard" sites and at a rate of 7.5 dBA for each doubling of distance from source to receptor at acoustically "soft" sites (Caltrans 2020). Sound generated by a line source (i.e., a roadway) typically attenuates at a rate of 3 dBA and 4.5 dBA per doubling of distance, for hard and soft sites, respectively (Caltrans 2020). Sound levels can also be attenuated by human-made or natural barriers. For the purpose of a sound attenuation discussion, a hard or reflective site does not provide any excess ground-effect attenuation and is characteristic of paved ground surfaces, as well as very hard-packed soils. An acoustically soft or absorptive site is characteristic of unpaved loose soil or vegetated ground.

For example, in the case of a 65 dBA noise level measured at 25 feet from a roadway centerline (a line source) with hard-packed shoulder (a hard site), an attenuation rate of 3 dBA per doubling of distance would apply; the traffic noise would diminish to 62 dBA at 50 feet from the centerline and to 59 dBA at 100 feet from the centerline. On a construction site (point source) where there is open ground with or without vegetation between the construction equipment and receiver (soft site), an attenuation rate of 7.5 dBA per doubling of distance would apply; the

construction equipment noise, measured as 85 dBA at 50 feet from the construction equipment, would diminish to 77.5 dBA at 100 feet from the source and to 70 dBA at 200 feet from the source.

1.3 Vibration Characteristics

Per the California Department of Transportation (Caltrans) Transportation and Construction Vibration Guidance Manual (Caltrans 2020), vibration is the periodic oscillation of a medium or object. Vibration can be described in terms of displacement, velocity, or acceleration. Heavy equipment operation, including stationary equipment that produces substantial oscillation or construction equipment that causes percussive action against the ground surface, may be experienced by building occupants as perceptible vibration. It is also common for groundborne vibration to cause windows, pictures on walls, or items on shelves to rattle; this transfer of vibration energy in the ground to structures resulting in audible sound is termed groundborne noise. The metric for groundborne noise is the vibration decibel, written VdB. Although groundborne noise in structures from such equipment operation can be intrusive to building occupants, the vibration is seldom of sufficient magnitude to cause even minor cosmetic damage to buildings.

Peak particle velocity (PPV) is defined as the maximum instantaneous peak of the vibration signal and is expressed in inches/second (in/sec). PPV is most frequently used to describe vibration impacts to buildings but can also be used to quantify vibration annoyance potential for humans. Caltrans has established a human annoyance vibration threshold of 0.24 in/sec PPV (distinctly perceptible level) for construction-related vibration levels (Caltrans 2020). The Caltrans threshold for potential damage to commercial buildings and newer residential structures is 0.5 in/sec PPV (Caltrans 2020), and for older buildings (historic structures), the threshold is 0.2 in/sec PPV.

1.4 Noise Regulations in San Bernadino County

1.4.1 San Bernadino County Noise Ordinance

Chapter 7 of the County's code of ordinances, Noise Control and Abatement regulates noise in the unincorporated area of the County "to promote the public health, comfort, and convenience of its inhabitants and visitors" (San Bernardino County 2019). Section 24.0704 identifies that Section 83.01.080 of the County code quantifies acceptable exterior noise levels, which appear below in Tables 1 and 2 for stationary and mobile sources, respectively. Additionally, section 24.0706(d) considers construction activity a "special sound source" for which, if occurring between the hours of 7:00 p.m. and 7:00 a.m., would constitute a violation.

Table 1. San Bernardino County Exterior Noise Standards – Stationary Sources

Affected Land Uses (Receiving Noise)	Stationary Sources – Hourly L_{eq} (dBA)	
	Day	Night
Residential	55	45
Professional Services	55	55
Other Commercial	60	60
Industrial	70	70

Source: San Bernadino Code of Ordinances 83.01.080(c)(1), Table 83-2 (San Bernardino County 2014).

Table 2. San Bernardino County Exterior Noise Standards – Mobile Sources

Affected Land Uses (Receiving Noise)	Mobile Sources – L_{dn} or CNEL (dBA)	
	Exterior	Interior
Residential (single and multi-family, duplex, mobile homes)	60	45

Source: San Bernadino Code of Ordinances 83.01.080(d), Table 83-3 (San Bernardino County 2014).
Notes: L_{dn} = day-night sound level, CNEL = community noise equivalent level.

For purposes of this noise assessment, it is assumed that Section 83.01.080(d) noise standards for "adjacent mobile noise sources" relate to offsite roadway traffic and would not pertain to the intermittent occurrence of low-speed movements of trucks or passenger vehicles on the Project site, such as those utilizing the proposed EV charging stations. Instead, noise from these sources are evaluated herein as part of the aggregate Project operations sound emission to the offsite community and assessed for conformance with respect to the stationary noise source standards shown in Table 1. The exterior limit shown in Table 2 would apply to noise from Project-attributed newly added roadway traffic flows on Lenwood Road as received by the adjoining "noise impacted area", as defined by Section 83.01.080(b), comprising the nearest homes of the High Desert Estates residential community.

Sections 83.01.080(g) and 83.01.090(c) of the County Code exempt temporary construction, maintenance, repair, or demolition activities occurring between 7:00 a.m. and 7:00 p.m., except Sundays and Federal holidays, from the County's noise and vibration limits.

1.4.2 San Bernadino County Hazards Element

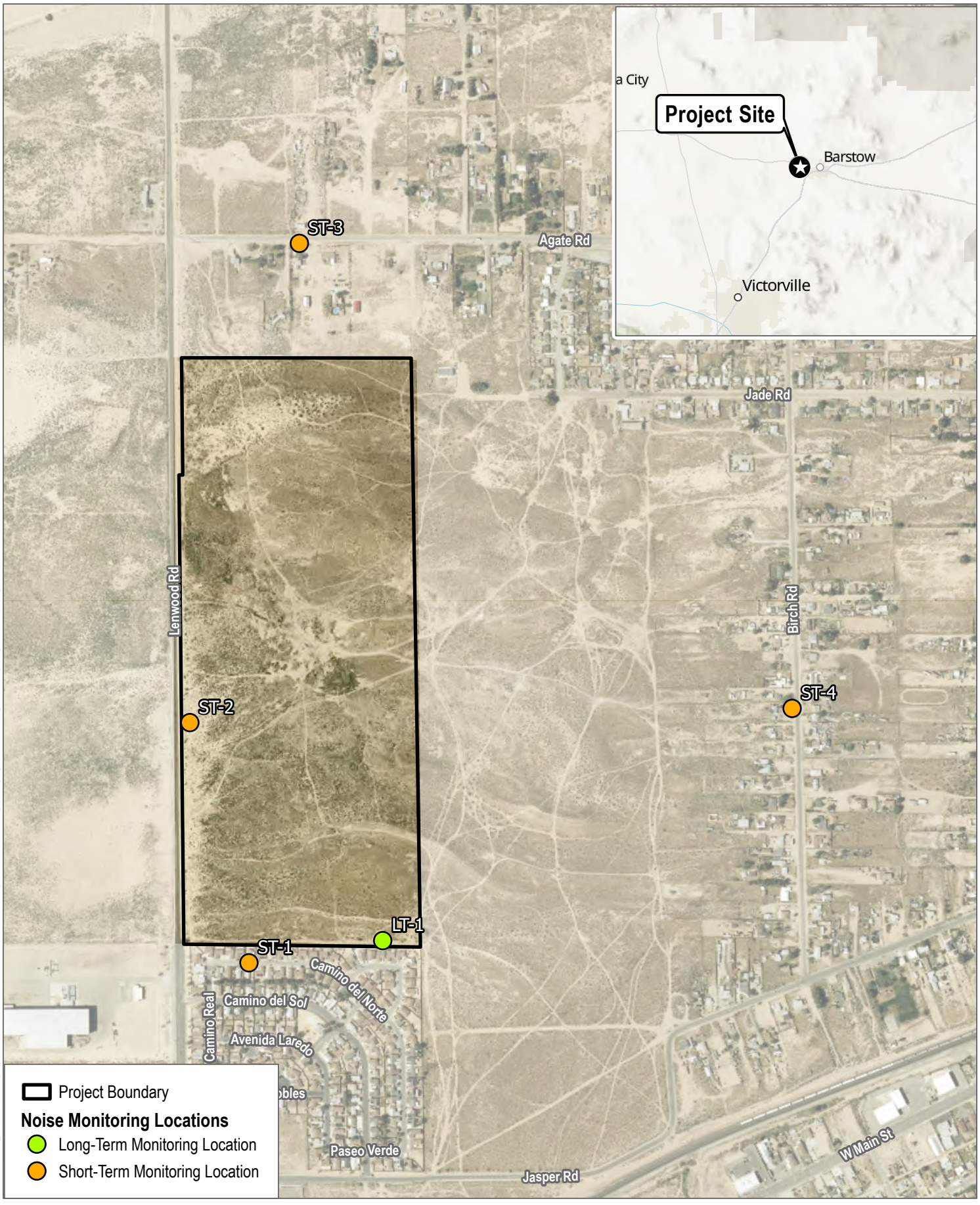
The Countywide Plan/Policy Plan includes the following policies under Goal HZ-2 "Human-generated Hazards" that pertain to noise considerations (San Bernardino County 2022) applicable to the Project:

- Policy HZ-2.7 Truck delivery areas. We encourage truck delivery areas to be located away from residential properties and require associated noise impacts to be mitigated.
- Policy HZ-2.9 Control sound at the source. We prioritize noise mitigation measures that control sound at the source before buffers, soundwalls, and other perimeter measures.

2 Baseline Sound Level Survey

Four investigator-attended short-term (15-minute) sound pressure level (SPL) measurements and data collected from one unattended long-term (24-hour duration) SPL monitor were conducted as part of a field survey on May 30 and 31, 2024, to quantify and characterize outdoor background sound levels in the vicinity of the Project site. The short-term SPL measurement position (ST-1) was conducted in front of residences to the south of the Project and was selected to evaluate the sound environment at residences to the south and setback from Lenwood Road. Measurement ST-2 was set back 50 feet from Lenwood Road and was selected to evaluate the sound environment near Lenwood Road. Site ST-3 was located north of the Project site, along Agate Road, and was selected to capture sound levels generated at residences to the north. Location ST-4 was situated to the east of the Project site, along Birch Road, and was selected to characterize the sound environment at the residences to the east. Long-term SPL monitor LT-1 was located at the southeastern corner of the site and was selected to document the sound

environment at the nearest residences over a full diurnal period and resulted in a CNEL of 57 dBA. The primary sound sources at all locations included local and distant vehicular traffic, biogenic sounds (birds), and residential sounds (air conditioning units, conversations, barking dogs). See Figure 1 for sound measurement locations. Table 3 summarizes the results of the short-term sound measurements and Figure 2 summarizes the results from the long-term location. Detailed sound level measurement data are included in Attachment A.



SOURCE: ESRI Imagery Accessed 2024, OpenStreetMap 2019

DUDEK

0 350 700 Feet

FIGURE 1

Sound Monitoring Location

EV Charging Station and Logistics Facility

Table 3. Short-Term (15-minute) Sound Level Monitoring Results, May 30, 2024

	Measurement Location	Measurement Period (hh:mm)	Primary Noise Source(s)	L_{eq} (dBA)
ST-1	Front of 24958 Camino Del Norte	8:32 a.m.– 8:47 a.m.	Occasional local traffic, distant residential, biogenic, and traffic	50
ST-2	50 feet from center of Lenwood Road	9:00 a.m.–9:15 a.m.	Vehicular traffic, biogenic	53
ST-3	35 feet from center of Agate Road at 25043 Agate Road	9:27 a.m.–9:42 a.m.	Vehicular traffic, distant mechanical and residential	53
ST-4	25 feet from center of Birch Road at 34906 Birch Road	9:59 a.m.–10:14 a.m.	Occasional local traffic, distant residential, biogenic, and traffic	49

Note: L_{eq} = average noise level equivalent; dBA = A-weighted decibel.

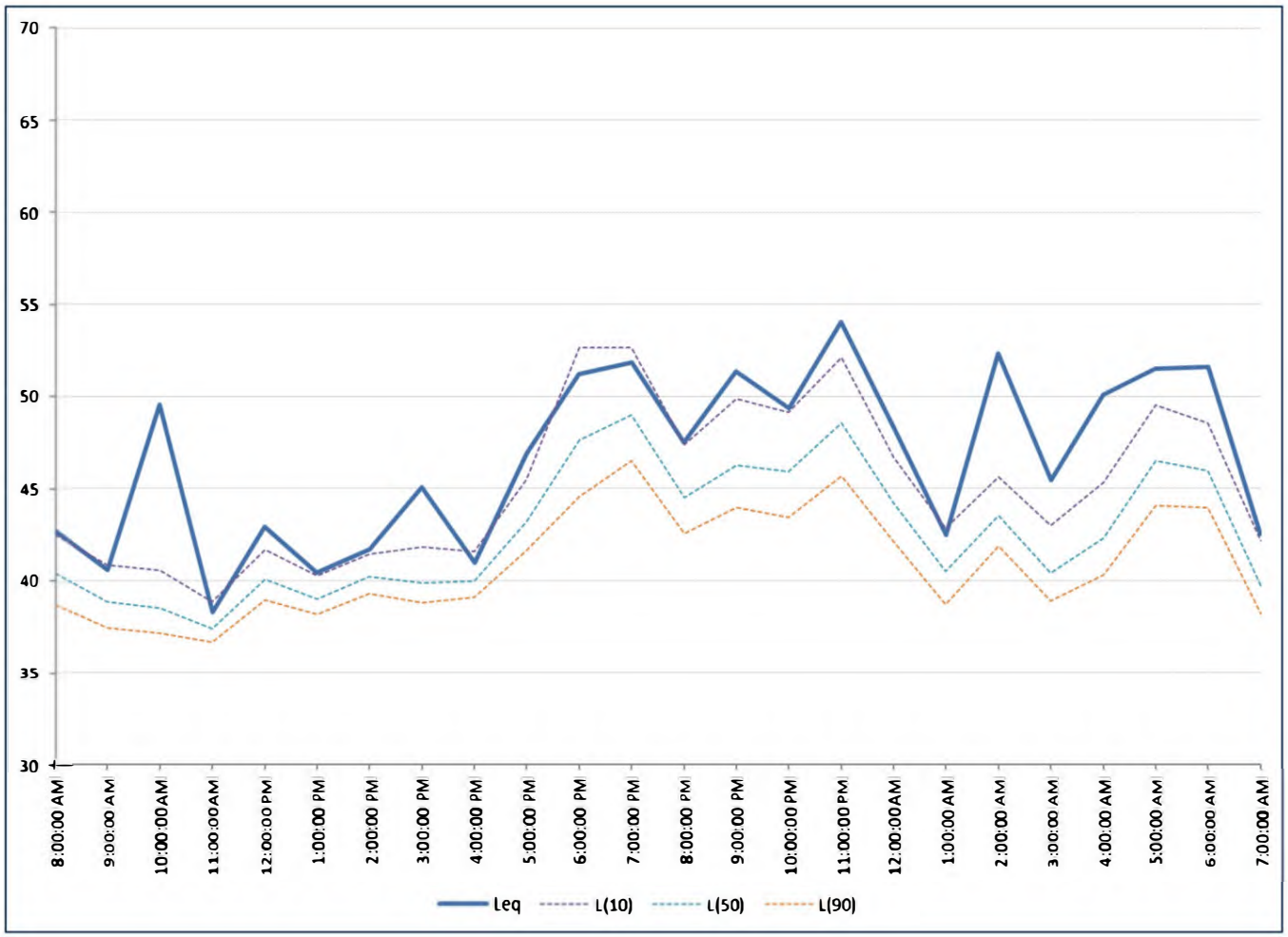


Figure 2. Summary of Long-term Sound Level Monitoring Results at LT-1

3 Impact Assessment

3.1 Significance Thresholds

To assess the potential for significant noise impact to the community, Appendix G of the current California Environmental Quality Act Guidelines requires consideration of whether a project would result in:

1. A substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.
2. The generation of excessive groundborne vibration or groundborne noise levels.
3. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, the exposure of people residing or working in the project area to excessive noise levels.

3.2 Threshold 1 – Substantial Temporary or Permanent Increase in Ambient Noise Levels

3.2.1 Construction Noise

One of the most extensive and widely used databases for sound levels from motorized or powered construction equipment is the Noise Source Database developed under National Cooperative Highway Research Program 25-49 (NCHRP 25-49), Development of a Highway Construction Noise Prediction Model (NASEM 2022). While the focus of data compilation was for equipment that would typically be employed for the construction of transportation facilities, the list is comprehensive enough to be useful in assessing sound levels for nearly every activity for which powered equipment is used. Table 4 provides a list of the maximum sound levels generated by various powered equipment that could be associated with construction of the Project.

Table 4. Selected Powered Equipment Noise Emission Levels

Equipment	Average Sound Level (dBA L_{eq}) – 50 feet from Source	Maximum Sound Level (dBA L_{max}) – 50 feet from Source
Air Compressor	66	67
Aerial Lift (Man Lift)	72	73
Backhoe	76	84
Compactor (Plate)	—	75
Compactor (Roller)	82	83
Concrete Mixer	81	82
Concrete Saw	85	88
Crane, Mobile	74	76
Dozer	80	86
Forklift	—	88
Generator	67	68
Grader	—	79
Horizontal Bore Drill	87	88

Table 4. Selected Powered Equipment Noise Emission Levels

Equipment	Average Sound Level (dBA L_{eq}) – 50 feet from Source	Maximum Sound Level (dBA L_{max}) – 50 feet from Source
Loader	72	81
Paving - Asphalt	—	83
Paving - Concrete	85	88
Pump	73	74
Scraper	—	92
Flatbed Truck	—	74
Welding Machine	71	72

Source: NASEM 2022.
Notes: dBA = A-weighted decibel; L_{eq} = average noise level equivalent; L_{max} = maximum instantaneous noise level; — = Equipment without average (L_{eq}) noise levels are non-stationary and best represented only by maximum instantaneous noise level (L_{max}).

The equipment sound levels presented in Table 4 include both average (L_{eq}) and maximum (L_{max}) sound levels, measured at a distance of 50 feet using a "slow" response time constant (1 second). Usually, construction equipment operates in alternating cycles of full power and low power, producing average noise levels over time that are less than the maximum noise level. The average sound level of construction activity also depends on the amount of time that the equipment operates and the intensity of construction activities during that time. Noise emissions from the construction of the Project were estimated based upon default construction scenario information provided by the California Air Resources Board (CARB) California Emissions Estimator Model (CalEEMod) (Version 2016.3.1) for the type and size of proposed development and included phasing, equipment mix, and vehicle trips. The construction equipment mixes used for estimating the Project-generated construction noise emissions are shown in Attachment B.

Construction Equipment Inventory

CalEEMod was used to identify the construction equipment anticipated for development of the Project, including earthwork, utility trenching and equipment installation, and paving activities. The equipment list is based upon the detailed project description; CalEEMod identified the anticipated equipment shown in Table 5 for each phase of the Project construction. Construction vehicle trip estimates were provided by conversations with a local construction company with substantial experience with similar projects in the region.

Table 5. Construction Equipment Per Phase

Construction Phase	On Site Equipment Types (and Quantities)	Vehicle Type (One-way Trip Quantities per Day)
Site Preparation	Dozers (3), Backhoe (4)	Autos (18), Vendor Trucks (2)
Grading	Graders (1), Excavator (2), Scraper (2), Dozer (1), Backhoes (2)	Autos (20), Vendor Trucks (2)
Underground Utilities	Excavator (4), Trencher (1), Trucks (4), Plate Compactor (3), Loader (1), Skid Steer Loader (4)	Autos (30), Vendor Trucks (4)
Building Construction	Cranes (1), Generators (1), Forklifts (3), Backhoes (3), Welders (1)	Autos (150), Heavy Trucks (60)
Paving	Pavers (2), Paving equipment (2), Rollers (2)	Autos (16), Vendor Trucks (2)
Architectural Coating	Air Compressors (1)	Autos (30), Vendor Trucks (4)
Fine Grading	Graders (1), Excavator (2), Scraper (2), Dozer (1), Backhoes (2)	Autos (70), Vendor Trucks (8)

On-Site Construction Noise Assessment

With the Project construction equipment identified in Table 5 above, an analysis was performed with a Microsoft Excel–based noise prediction model using the National Cooperative Highway Research Program reference data shown in Table 4. Input variables include the equipment type (backhoe, crane, truck, etc.), the number of equipment pieces, the duty cycle for each piece of equipment (i.e., percentage of each hour the equipment typically works), and the distance from the sensitive receptor. Refer to Attachment B for the construction modeling inputs and results. Construction noise levels were predicted at the nearest sound-sensitive land uses (i.e., residences) in each direction from the Project site, based on the distance between the closest Project construction boundary and these residences. Aggregate sound emissions from Project construction activities, broken down by sequential phase of construction, were predicted for the worst-case construction activity occurring along the closest construction boundary to the off-site closest sensitive receptors.

Construction activities occurring between 7:00 a.m. and 7:00 p.m. are exempt from the County's noise limits per Section 83.01.080(g)(3) of its code. Noise-sensitive uses in the general vicinity of the Project site include suburban and rural residences adjoining the site to the south and located 250 and 1,700 feet to the north and east of the project boundary, respectively. The distance from the center of the site to the nearest residences is about 1,600 feet. Using the provided construction information and the distance identified from the edge of a future construction zone boundary to the closest receivers, the construction noise model was used to predict sound levels from on-site construction activities. The construction noise was modeled at distances representative of the closest noise-sensitive receptors to the Project site. The results are summarized in Table 6.

Table 6. Construction Noise Levels, Worst-Cases

Task/Activity	Sound Level When Adjacent to Residence (50 feet)	Sound Level from Center of Site to Closest Residence (1,600 feet)
	$L_{eq\ 8hr}$	$L_{eq\ 8hr}$
Site Preparation	87	56
Grading	92	62
Underground Utilities	85	55
Building Construction	90	60
Paving	92	62
Architectural Coating	66	36
Fine Grading	92	62

Note: $L_{eq\ 8hr}$ = average noise level equivalent over an 8-hour period.

Table 6 presents the results of the construction noise prediction, assuming all equipment is simultaneously operating along the Project site boundary closest to the identified receiver and assuming an average sound level with equipment operating at the center of the site. As indicated in Table 6, worst-case construction noise levels would range from 66 to 92 dBA $L_{eq\ 8hr}$. However, this scenario is highly unlikely as construction is unlikely to be co-located at the worst-case location for an entire 8-hour period. Sound levels at the closest residential receiver when construction is at the center of the site would range from 36 to 62 dBA $L_{eq\ 8hr}$. Additionally, there is an existing 6-foot-high sound wall located at the southern Project boundary. This wall would reduce construction sound levels at homes to the south by up to 5 dB. With construction of an approximately 200-foot

long 8-foot-high barrier proposed along the westerly end of the southern boundary as part of the Project, construction sound levels at homes to the south would be reduced by up to 8 dB (see Figure 3)

Construction would occur during hours (7:00 a.m. and 7:00 p.m.) that are exempt from the County's noise limits. The average noise levels at exterior areas would not be harmful, nor would they present a deterrent to use of outdoor activity, yard, or patio areas. With typical outdoor to indoor attenuation of 15 dBA for standard construction residential structures with windows open, interior noise levels at the closest residences during average construction would be approximately 21 to 47 dBA L_{eq}, which should not interfere with conversation or other daytime activities indoors. Consequently, on-site construction noise levels would result in a **less than significant** temporary noise impact.

Off-Site Construction Traffic Noise Assessment

One-way vehicle trips per day during each phase of construction are provided in Table 5, based on conversations with a local construction company with substantial experience in the region. Construction traffic would utilize Lenwood Road to access the site. Based on existing traffic counts, Lenwood Road currently carries 209 vehicles per hour during the AM peak hour and 300 vehicles per hour during the PM peak hour (AimTD, 2023).

The analysis assumes that all light vehicle construction trips would utilize Lenwood Road, traveling south towards Jasper Road. Heavy trucks would be split, with 40% of trucks traveling south towards Jasper Road and the other 60% traveling north and away from residences. Assuming that all trips would occur during the AM and PM peak hours, the highest peak hour construction volume along the portion of Jasper Road with adjacent sensitive receptors would be 75 light vehicles (half of 150) and 12 heavy trucks (half of 24, which is 40% of 60), occurring during building construction. A typical heavy truck is approximately 10 dB louder than a light vehicle; therefore, one heavy truck would be acoustically equivalent to 10 passenger vehicles.[1] The equivalent construction traffic volume would therefore be equivalent to 195 light vehicles (accounting for 75 autos and 12 heavy trucks). An increase of 195 vehicles per peak hour on a roadway with existing peak hour traffic volumes of 209 to 300 would result in a peak hour increase of about 2.2 to 2.9 dB.[1] This increase would be below the increase that would be considered barely perceptible (3 dB). This is a **less than significant** temporary noise impact.

3.2.2 On-Site Operational Noise

Methodology

Sound modeling of Project operations was conducted in accordance with relevant algorithms and reference data from International Organization of Standardization (ISO) 9613-2, Acoustics – Attenuation of Sound During Propagation Outdoors, Part 2: General Method of Calculation, implemented using Datakustik's CadnaA software application. The CadnaA model takes into account source sound power levels, surface reflection and absorption, atmospheric absorption, geometric divergence, meteorological conditions, walls, barriers, berms, and terrain. The Project area was modeled with a ground acoustical absorption factor "G" equal to 0.8 to represent a desert floor with loose sand and some vegetation. A temperature of 10°C with 70% relative humidity was used. No attenuation due to foliage was included.

Sound sources modeled for the Project were major producers of continuous-type noise generation, which include heating, ventilation, and air conditioning (HVAC) units for the three warehouse buildings (98 dBA sound power level

[1] Based on a 10 log scale. Note that a doubling of traffic volumes results in an approximately 3 dB increase.

each) and one commercial building (72 dBA), the truck wash (97 dBA), two transformers (72 dBA each), four battery storage units (85 dBA each), four prepackaged wastewater treatment plants[2] (71 dBA each), 45 electric vehicle DC fast charging units at the truck hub (80 dBA each), and 8 light duty DC fast charging units at the commercial building. The Project also proposes Level 2 EV chargers throughout the employee parking spaces at the logistics center. These are not anticipated to generate sound levels that would be perceptible off-site and are therefore not included in the modeling. The HVAC reference sound levels were calculated based on the building square footage and usage and manufacturer sound power level data (see Appendix D) and the other equipment levels were based on data from Dudek files with similar equipment that is anticipated to be installed for this Project. Additionally, 35 trucks traveling on-site along the site's truck route to the warehouse and 132 truck trips along the truck service route were included, as this is the maximum on-site truck volume that is anticipated to occur. These truck volumes were assumed to occur for both daytime and nighttime hours, although it is likely that nighttime truck trips would be lower.

There is an existing 6-foot-high sound wall located at the southern Project boundary. A 6-foot-tall masonry wall is proposed along the north and east sides of the project site and an 8-foot-tall masonry wall, approximately 200 feet long, is proposed along the western portion of the southern boundary of the project site. These walls were included in the sound propagation modeling for Project operations.

Sound-sensitive uses in the general vicinity of the Project site include suburban and rural residences adjoining the site to the south and located 250 and 1,700 feet to the north and east, respectively. Sound modeling included multiple discrete off-site receiver locations. In addition, a map of predicted iso-pleths, depicted as color-coded area regions representing 5-dB-wide decrements of sound propagation, was calculated across a surface, vertically parallel with and 1.5 meters (5 feet) above modeled topography and across an area spanning the Project and its immediate surroundings.

Prediction Results

The model results are presented graphically in Figure 3, Sound Modeling Results for Project Operations, and numerically in Table 7.

Table 7. Modeled Project Operation Sound Levels Compared to County Code Limits

Model Receiver	Land Use	Modeled Project Operational Sound Level (dBA $L_{eq\ 1hr}$)	Day / Night County Code Limits (dBA $L_{eq\ 1hr}$)	In Compliance with Day and Night dBA Limits?
R1	Residential	43	55 / 45	Yes / Yes
R2	Residential	43	55 / 45	Yes / Yes
R3	Residential	41	55 / 45	Yes / Yes
R4	Residential	36	55 / 45	Yes / Yes
R5	Residential	34	55 / 45	Yes / Yes
R6	Residential	30	55 / 45	Yes / Yes
R7	Residential	31	55 / 45	Yes / Yes
R8	Residential	31	55 / 45	Yes / Yes

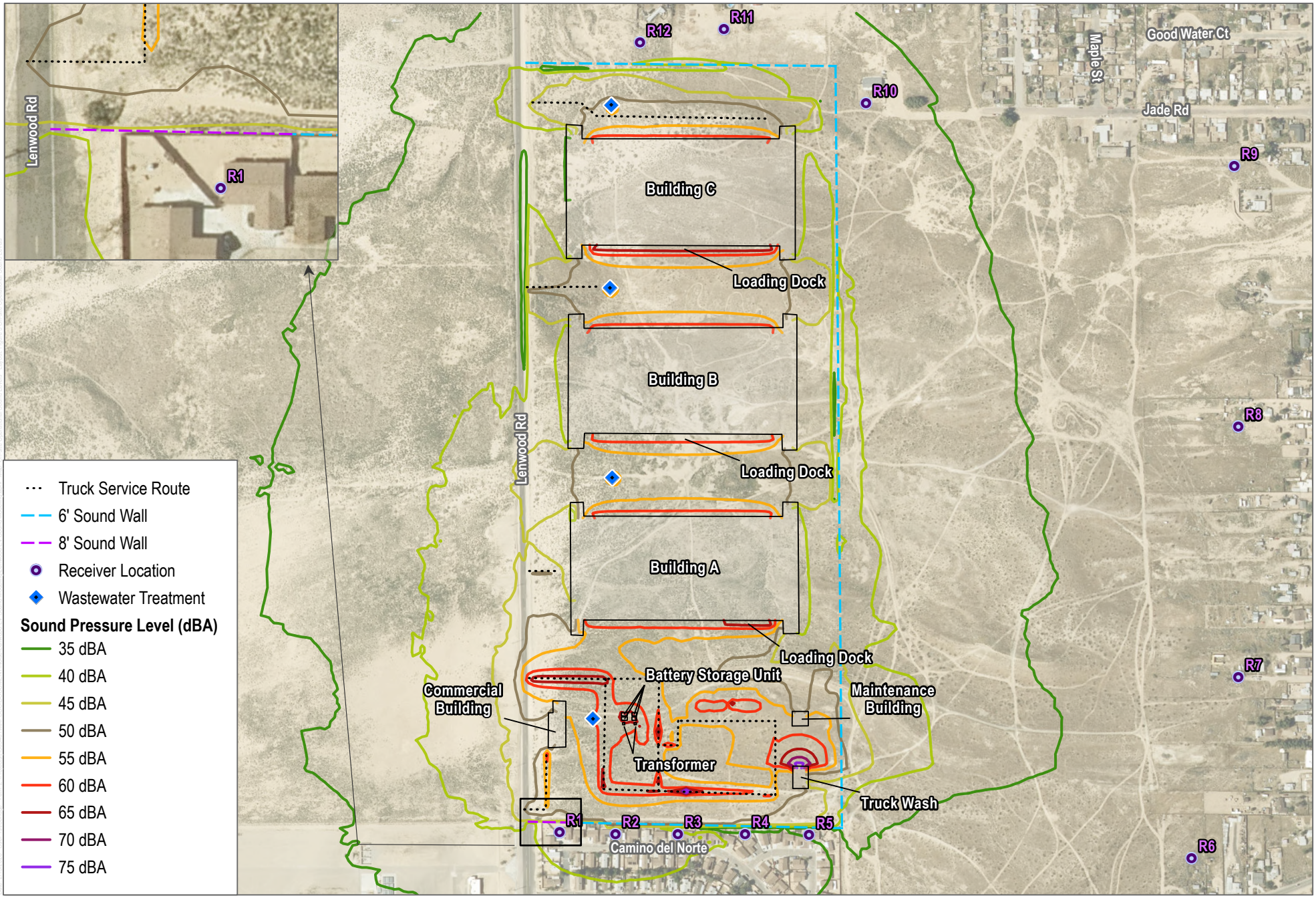
[2] A sewer connection to the City of Barstow is the preferred method for addressing project wastewater. However, on-site treatment is considered as an option if City service is infeasible, and is therefore analyzed here.

Table 7. Modeled Project Operation Sound Levels Compared to County Code Limits

Model Receiver	Land Use	Modeled Project Operational Sound Level (dBA $L_{eq\ 1hr}$)	Day / Night County Code Limits (dBA $L_{eq\ 1hr}$)	In Compliance with Day and Night dBA Limits?
R9	Residential	30	55 / 45	Yes / Yes
R10	Residential	37	55 / 45	Yes / Yes
R11	Residential	38	55 / 45	Yes / Yes
R12	Residential	39	55 / 45	Yes / Yes

Notes: dBA = A-weighted decibel; $L_{eq\ 1hr}$ = average noise level equivalent over a 1-hour period; L_{eq} = average noise level equivalent.

Sound sensitive locations, in the form of suburban and rural residences, are located north, east, and south of the site. As indicated in Table 7, the highest sound level exposure at a residence would be 43 dBA L_{eq}. Operational sound levels would be well below the normally acceptable daytime and nighttime noise limits of 55 and 45 dBA, respectively, as established in the Countywide Plan/Policy Plan and County Code (as introduced in Section 1.4). As a result, Project operational noise levels would be **less than significant**.



SOURCE: Esri Imagery Accessed 2025, OpenStreetMap 2019

DUDEK

0 270 540 Feet

FIGURE 3

On-site Operational Sound Levels

Lenwood EV Charging Station and Logistics Facility

3.2.3 Off-Site Operational Traffic Noise

Methodology

Using California Department of Transportation (Caltrans) guidance, the average daily traffic (ADT) associated with introduction of the Project for the segment of Lenwood Drive adjacent to the High Desert Estates residential community and immediately south of Project Driveway 8 was estimated to be ten times the peak hour volumes as appearing in Figure 12 and Figure 13 (without using the PCE calculation) of the Local Traffic Assessment (LTA) (Dudek 2025). Furthermore, and consistent with Caltrans guidance as a "typical case" (Caltrans 2013) and the LTA and for purposes of predicting CNEL at 50 feet perpendicular distance from the roadway, this analysis assumes 85% of the ADT occurs during daytime hours (7:00 a.m. to 10:00 p.m.) and 15% during the nighttime hours (10:00 p.m. to 7:00 a.m.). Worksheets accompanying this memorandum as Attachment C show these and other input parameters as part of traffic noise prediction for both the peak hour morning and peak hour afternoon cases.

Prediction Results

Using the peak hour morning and peak hour afternoon volumes, predicted Project traffic noise exposures to the nearest backyards (i.e., exterior use areas) of the High Desert Estates residential properties are expected to be less than 60 dBA CNEL and thus comply with the County's exterior noise threshold (per Table 2) and consequently be considered a **less than significant impact**.

3.3 Threshold 2 – Generation of Excessive Groundborne Vibration

3.3.1 Construction Vibration Assessment Methodology

Construction activity can result in varying degrees of ground vibration at local receptors, depending on the equipment and methods used, distance to the affected structures, and soil type. Caltrans has been assembling data for groundborne vibration levels generated by heavy construction equipment operation during the building of transportation projects for many years. The vibration levels from use of such equipment are representative for other types of construction efforts, not just transportation projects, and are therefore widely employed to assess vibration levels from heavy equipment use for any effort. According to Caltrans (2020), the most important equipment relative to generation of vibration, and the vibration levels produced by such equipment, is illustrated in Table 8.

Table 8. Vibration Velocities for Typical Construction Equipment

Equipment	PPV at 25 Feet (Inches Per Second)
Vibratory Roller	0.210
Large Bulldozer	0.089
Loaded Trucks	0.076
Small Bulldozer	0.003

Source: Caltrans 2020.
Note: PPV = peak particle velocity; VdB = vibration decibel.

Groundborne vibration attenuates rapidly, even over short distances. The attenuation of groundborne vibration as it propagates from source to receptor through intervening soils and rock strata can be estimated with expressions

found in Caltrans guidance (Caltrans 2020). The following equation is used to calculate PPV at any distance of interest from the operating construction equipment.

$$PPV_{rcvr} = PPV_{ref} * (25/D)^{1.1}$$

In the above equation, PPV_{rcvr} is the predicted vibration velocity at the receiver position, PPV_{ref} is the reference value at 25 feet from the vibration source (as listed in Table 8), and D is the actual horizontal distance to the receiver.

3.3.2 Vibration Assessment

The County exempts construction activities occurring during the County's allowable hours (7:00 a.m. to 7:00 p.m. on weekdays and Saturdays) from the County's vibration standards. However, to ensure that project construction does not result in structural damage to nearby buildings, it is appropriate to employ a numeric standard adopted by another agency. The California Department of Transportation (Caltrans 2020) establishes a construction-related damage limit of 0.25 in/sec PPV for historic and old buildings, 0.3 in/sec PPV for older residential structures, and 0.5 in/sec PPV for new residential and modern commercial/industrial structures. The applicable threshold for Project-attributed construction vibration would be 0.3 in/sec PPV at the closest residences. Thresholds for annoyance are not typically used to identify impacts for short-term construction under CEQA. However, for informational purposes, Caltrans has established a human annoyance vibration threshold of 0.24 in/sec PPV (distinctly perceptible level) for construction-related vibration levels (Caltrans 2020).

The closest sensitive structures are residences that adjoin the site to the south, with the residential buildings located about 25 feet from the southern Project boundary. Given the location of the southern boundary soundwall, it is assumed that heavy construction equipment would be located at least 5 feet from the southern boundary. At this distance (30 feet), construction vibration levels would be 0.17 in/sec PPV or less. Project construction-related vibration levels could be perceptible at the nearest structures when construction is located adjacent to the southern Project boundary but would be below the Caltrans threshold (0.3 in/sec PPV) and below the human annoyance level of 0.24 in/sec PPV.

Project construction would result in groundborne vibration levels that would meet the applicable significance thresholds at the closest sensitive structures (residences to the south). Groundborne vibration impacts of the Project would therefore be **less than significant**.

3.4 Threshold 3 – Exposure of People Residing or Working in the Project Area to Excessive Airport Noise Levels

There are no private or public airports within 2 miles of the site and the Project site would not expose construction workers or operations employees to substantial airport noise. **No Impact.**

4 References

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FHWA (Federal Highway Administration). 2004. FHWA Traffic Noise Model, Version 2.5. Office of Environment and Planning. February 2004.

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San Bernardino County. 2007. Countywide Development Standards. Chapter 83. Performance Standards. Section 83.01.090 Vibration. https://lus.sbcounty.gov/wp-content/uploads/sites/48/Environmental/VCSPAppendixFNoiseModelingData.pdf

San Bernardino County. 2014. Countywide Development Standards. Chapter 83. Performance Standards. Section 83.01.080 Noise. https://codelibrary.amlegal.com/codes/sanbernardino/latest/sanberncty_ca/0-0-0-169200#JD_83.01.090

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Attachment A

Baseline Sound Measurement Field Data

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: EVC TRUCK STOP / LENWOOD — PROJECT #: 15054
SITE ID:
SITE ADDRESS:
OBSERVER(S): DEVIN VITAR
START DATE: 5/30/24 — END DATE: 5/31/24
START TIME: — END TIME:

METEOROLOGICAL CONDITIONS
TEMP ____ F — HUMIDITY ____ % R.H. — WIND: CALM / LIGHT / MODERATE
WINDSPD ____ MPH — DIR. N NE E SE S SW W NW — VARIABLE / STEADY / GUSTY
SKY: SUNNY / CLEAR / OVRCAST / PRTLY CLDY / FOG / RAIN

ACOUSTIC MEASUREMENTS
MEAS. INSTRUMENT: PICCOLO II — TYPE 1 2 — SERIAL# P0222050201
CALIBRATOR: REED R8090 — SERIAL#:
CALIBRATION CHECK — PRE-TEST ____ dBA SPL — POST-TEST ____ dBA SPL — WINDSCRN: YES

SETTINGS: A-WTD / SLOW / FAST / FRONTAL / RANDOM / ANSI / OTHER:

REC. #	BEGIN (5/30)	END (5/31)	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
LT-11 1-1634	7:38	7:38							

COMMENTS: READING TAKEN IN OPEN FIELD NORTH OF RESIDENTIAL NEIGHBORHOOD, APX 42' FROM NEAREST RESIDENCES (34.8819776, -117.1143101);

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE: TRAFFIC / AIRCRAFT / RAIL / INDUSTRIAL / OTHER:
ROADWAY TYPE: DIRT — DIST. TO RDWY C/L OR EOP: APX 1,080' FROM C/L: ON LENWOOD RD
TRAFFIC COUNT DURATION: — MIN — SPEED ____ MIN SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS										
MED TRKS										
HVY TRKS										
BUSES										
MOTRCLS										

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL / DIST. KIDS PLAYING / DIST. CONVRSTNS. / YELLING / DIST. TRAFFIC (JUST RDWYS BELOW) / DISTD GARDENERS/LANDSCAPING NOISE
OTHER: RAILROAD TRACKS APX 1,300' FROM METER;

DESCRIPTION / SKETCH
TERRAIN: HARD / SOFT / MIXED / FLAT / OTHER:
PHOTOS: 2885; 2886; 2887; 2888; 2889; 2890
OTHER COMMENTS / SKETCH

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: EVC TRUCK STOP/LENWOOD — PROJECT #: 15054
SITE ID:
SITE ADDRESS: — OBSERVER(S): PETE VITAR
START DATE: 5/30/24 — END DATE: 5/30/24
START TIME: — END TIME:

METEOROLOGICAL CONDITIONS
TEMP: 71 F — HUMIDITY: 30 % R.H. — WIND: CALM (LIGHT) MODERATE
WINDSPD: 5 MPH — DIR. N NE E SE S SW W NW — VARIABLE STEADY GUSTY
SKY: (SUNNY) (CLEAR) OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
MEAS. INSTRUMENT: PIICOLO SLM-P3 — TYPE 1 2 — SERIAL# 130927046
CALIBRATOR: REED R8090 — SERIAL#:
CALIBRATION CHECK: PRE-TEST ____ dBA SPL — POST-TEST ____ dBA SPL — WINDSCRN: YES

SETTINGS: (A-WTD) (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
(ST-1) 1-16	8:32	8:47							

COMMENTS: READING TAKEN IN FRONT OF 24958 CAMINO DEL NORTE (RESIDENCE). VERY LIGHT TRAFFIC; OCCASIONAL DOGS BARKING NEARBY; OCCASIONAL DISTANT CONVERSATION FROM NEARBY RESIDENCES;

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT — DIST. TO RDWY Ⓒ/L OR EOP: APX 10' TO C/L ON CAMINO DEL NORTE
TRAFFIC COUNT DURATION: 15 MIN — SPEED ____ MIN

COUNT 1 (OR RDWY 1)

DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS	4			
MED TRKS	0			
HVY TRKS	0			
BUSES	0			
MOTRCLS	0			

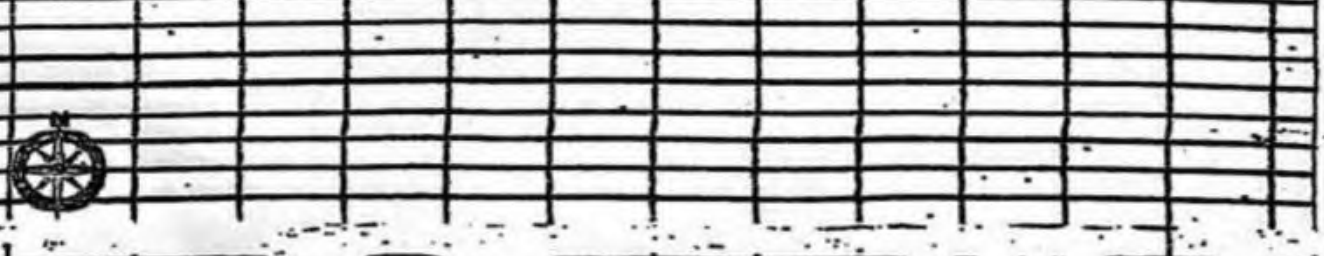
IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ✓

COUNT 2 (OR RDWY 2)

NB/EB	SB/WB	NB/EB	SB/WB

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES (DIST. BARKING DOGS) (BIRDS) DIST. INDUSTRIAL
DIST. KIDS PLAYING (DIST. CONVERSATION / YELLING) DIST. TRAFFIC (LIST ROADS BELOW) DIST. GARDENERS/LANDSCAPING NOISE
OTHER: 8:47AM VEHICLE PARKING NEXT TO MEYER & SETTING ALARM;

DESCRIPTION / SKETCH
TERRAIN: HARD SOFT (MIXED) FLAT OTHER:
PHOTOS: 2892; 2893; 2894; 2895
OTHER COMMENTS / SKETCH

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: EVC TRUCK STOP / LENWOOD PROJECT #: 15054
SITE ID:
SITE ADDRESS: OBSERVER(S): Pete Vitar
START DATE: 5/30/24 END DATE: 5/30/24
START TIME: END TIME:

METEOROLOGICAL CONDITIONS
TEMP: 73 F HUMIDITY: 27 % R.H. WIND: CALM (LIGHT) MODERATE
WINDSPD: 6 MPH DIR. N NE E SE S SW W NW VARIABLE STEADY GUSTY
SKY: SUNNY (CLEAR) OVRCST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
MEAS. INSTRUMENT: ACCUCO SLM-P3 TYPE 1 2 SERIAL#: 1309 27046
CALIBRATOR: REED R3090 SERIAL#:
CALIBRATION CHECK: PRE-TEST ____ dBA SPL POST-TEST ____ dBA SPL WINDSCRN: YES

SETTINGS: (A-WTD) (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
ST-2 17-32	9:00	9:16							

COMMENTS: READ LT AT 50' EAST OF EDGE OF LENWOOD ROAD (34.8853284, -117.1178342)

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO ROWY (C/L) OR EOP: APX 62' TO C/L OF LENWOOD RD
TRAFFIC COUNT DURATION: 15 MIN SPEED ____ MIN SPEED

COUNT 1 (OR ROWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB	COUNT 2 (OR ROWY 2)	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS	17								
MED TRKS	0								
HVY TRKS	2								
BUSES	0								
MOTRCLS	0								

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ✓

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY: 35 MPH

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS (BIRDS) DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVERSING / YELLING DIST. TRAFFIC (JUST ROWES BELOW) DISTO GARDENERS/LANDSCAPING NOISE
OTHER:

DESCRIPTION / SKETCH
TERRAIN: HARD SOFT (MIXED) FLAT OTHER:
PHOTOS: 2897, 2898, 2899, 2900
OTHER COMMENTS / SKETCH

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: EVC TRUCK STOP / LENWOOD — PROJECT #: 15054
SITE ID:
SITE ADDRESS:
OBSERVER(S): PETE VITAR
START DATE: 5/30/24 — END DATE: 5/30/24
START TIME: — END TIME:

METEOROLOGICAL CONDITIONS
TEMP: 76 F — HUMIDITY: 27 % R.H. — WIND: CALM (LIGHT) MODERATE
WINDSPD: 3 MPH — DIR: N NE E SE S SW W NW — VARIABLE STEADY GUSTY
SKY: (SUNNY) (CLEAR) OVERCAST PARTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
MEAS. INSTRUMENT: ACCUSD SLM P-3 — TYPE 1 2 — SERIAL# 1309 27046
CALIBRATOR: LARSON R809 — SERIAL#:
CALIBRATION CHECK: PRE-TEST ____ dBA SPL — POST-TEST ____ dBA SPL — WINDSCRN: YES

SETTINGS: (A-WTD) (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lxiax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
(ST-3) 33-43	9:29	9:42							

COMMENTS
READING TAKEN ALONG AGAVE ROAD, IN FRONT OF 25043 AGAVE ROAD (RESIDENCE); PRIMARY NOISE SOURCE IS TRAFFIC ON LENWOOD ROAD TO THE WEST;

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT — DIST. TO ROWY CL OR EOP: APX 34' TO C/L OF AGAVE RD

TRAFFIC COUNT DURATION: 15 MIN — SPEED ____ MIN — SPEED

COUNT 1 (OR ROWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB	LOCATION (CHECK AS APPL. CHECKED)	COUNT 2 (OR ROWY 2)	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS	10									
MED TRKS	1									
HVY TRKS	0									
BUSES	1									
MOTRCLS	0				✓					

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY: 40 MPH

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES (DIST. BARKING DOGS) (BIRDS) DIST. INDUSTRIAL
DIST. KIDS PLAYING (DIST. CONVERSATION / YELLING) DIST. TRAFFIC (LIST ROWYS BELOW) DISTO GARDENERS/LANDSCAPING NOISE
OTHER: SOME BARKING NOISE FROM DISTANT AIR CONDITIONING UNITS; OCCASIONAL DISTANT CONVERSATION AND FROM NEARBY HOMES; OCCASIONAL DOG BARKING IN NEARBY RESIDENCES;

DESCRIPTION / SKETCH
TERRAIN: HARD SOFT (MIXED) FLAT OTHER:
PHOTOS: 2902; 2903; 2904; 2905
OTHER COMMENTS / SKETCH:

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: EVC TRUCK STOP/LENNOX PROJECT #: 15054
SITE ID:
SITE ADDRESS: OBSERVER(S): PETE VITAR
START DATE: 5/30/24 END DATE: 5/30/24
START TIME: END TIME:

METEOROLOGICAL CONDITIONS
TEMP: 78 F HUMIDITY: 25 % R.H. WIND: CALM (LIGHT) MODERATE
WINDSPD: 3 MPH DIR: N NE E SE S SW W NW VARIABLE STEADY GUSTY
SKY: SUNNY (CLEAR) OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
MEAS. INSTRUMENT: PICCOLO SLM-P3 TYPE 1 2 SERIAL#: 170927046
CALIBRATOR: REED R8090 SERIAL#:
CALIBRATION CHECK: PRE-TEST ____ dBA SPL POST-TEST ____ dBA SPL WINDSCRN: YES

SETTINGS: (A-WTD) (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L50	L50	L10	OTHER (SPECIFY METRIC
ST-1 44-64	9:59	10:15							

COMMENTS: READING TAKES ALONG BIRCH ROAD, IN FRONT OF 34906 BIRCH ROAD (RESIDENCE);

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO ROWY (C/L) OR EOP: APX 24' FROM C/L ON BIRCH. RD
TRAFFIC COUNT DURATION: 15 MIN

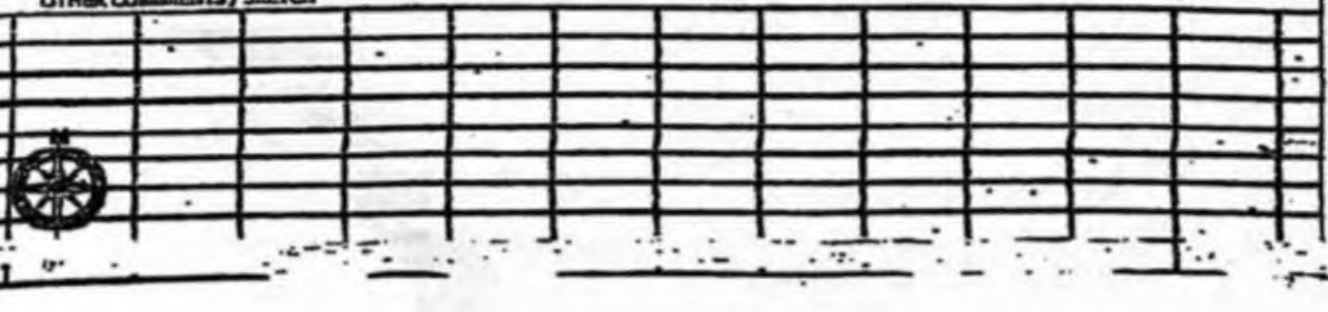
COUNT 1 (OR ROWY 1)	DIRECTION	NB/EB	SB/WB	NB/EB SPEED	SB/WB SPEED
	AUTOS	8			
	MED TRKS	0			
	HVY TRKS	0			
	BUSES	0			
	MOTRCLS	0			

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE: ✓

COUNT 2 (OR ROWY 2)	NB/EB	SB/WB	NB/EB SPEED	SB/WB SPEED

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES (DIST. BARKING DOGS) (BIRDS) DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVERSING / YELLING DIST. TRAFFIC (LIST ROWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER:

DESCRIPTION / SKETCH
TERRAIN: HARD SOFT (MIXED) FLAT OTHER:
PHOTOS: 2908; 2909; 2910; 2911
OTHER COMMENTS / SKETCH

Attachment B

Construction Noise Modeling Input and Output

Notes

Phase 1:	Site Preparation						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Dozer	3	1600	54.6	60.7	54.8	60.5
☑	Backhoe	4	1600	51.7	59.5	53.4	60.3
☐							
	Total	7		56.4	63.2	57.2	63.4

Phase 2:	Grading						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Excavator	2	1600	48.8	59.6	49.6	60.3
☑	Grader*	1	1600	44.4	48.4	43.2	47.2
☑	Dozer	1	1600	49.9	56.0	50.0	55.7
☑	Backhoe	2	1600	48.7	56.5	50.4	57.3
☑	Scraper*	2	1600	61.3	65.3	61.3	65.3
☐							
	Total	8		62.1	67.2	62.3	67.3

Phase 3:	Underground Utilities						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Excavator	4	1600	51.8	62.7	52.6	63.3
☑	Excavator	1	1600	45.8	56.6	46.6	57.3
☑	Flatbed Truck*	4	1600	46.1	50.1	46.7	50.7
☑	Compactor (Plate)*	3	1600	42.3	49.3	42.3	49.3
☑	Front End Loader (Passby)	1	1600	-14.9	41.1	-14.9	42.5
☑	Front End Loader (Cyclical)	4	1600	48.3	57.3	48.3	57.3
☐							
	Total	17		55.0	64.8	55.5	65.3

Phase 4:	Building Construction						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Crane	1	1600	44.1	45.9	46.9	48.9
☑	Telescopic Handler (Forklift)*	3	1600	59.0	63.0	59.9	63.8
☑	Generator	1	1600	37.0	37.7	37.8	38.3
☑	Backhoe	3	1600	50.5	58.2	52.1	59.0
☑	Welding Machine	1	1600	41.1	42.0	43.8	44.6
☐							
	Total	9		59.7	64.3	60.8	65.2

Phase 5:	Paving						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Paving - Concrete (Placer + Slipform Paver)	2	1600	60.1	63.7	60.1	63.7
☑	Paving - Concrete (Texturing/Curing Machine)	2	1600	46.2	47.0	46.5	47.3
☑	Paving - Concrete (Triple Roller Tube Paver)	2	1600	58.0	61.3	59.0	61.8
☐							
	Total	6		62.3	65.8	62.7	66.0

Phase 6:	Architectural Coating						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Compressor	1	1600	35.5	36.7	36.6	38.0
☐							
	Total	1		35.5	36.7	36.6	38.0

Phase 7:	Fine Grading						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Excavator	2	1600	48.8	59.6	49.6	60.3
☑	Grader*	1	1600	44.4	48.4	43.2	47.2
☑	Dozer	1	1600	49.9	56.0	50.0	55.7
☑	Backhoe	2	1600	48.7	56.5	50.4	57.3
☑	Scraper*	2	1600	61.3	65.3	61.3	65.3
☐							
	Total	8		62.1	67.2	62.3	67.3
☐							

Notes

Phase 1:	**Site Preparation**						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Dozer	3	50	84.7	90.9	84.9	90.6
☑	Backhoe	4	50	81.8	89.6	83.5	90.4
☐							
	Total	7		86.5	93.3	87.3	93.5

Phase 2:	**Grading**						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Excavator	2	50	78.9	89.7	79.7	90.4
☑	Grader*	1	50	74.5	78.5	73.3	77.3
☑	Dozer	1	50	80.0	86.1	80.1	85.9
☑	Backhoe	2	50	78.8	86.6	80.5	87.4
☑	Scraper*	2	50	91.4	95.4	91.4	95.4
☐							
	Total	8		92.2	97.3	92.4	97.4

Phase 3:	**Underground Utilities**						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Excavator	4	50	81.9	92.8	82.7	93.4
☑	Excavator	1	50	75.9	86.7	76.7	87.4
☑	Flatbed Truck*	4	50	76.2	80.2	76.8	80.8
☑	Compactor (Plate)*	3	50	72.4	79.4	72.4	79.4
☑	Front End Loader (Passby)	1	50	15.2	71.2	15.2	72.6
☑	Front End Loader (Cyclical)	4	50	78.4	87.4	78.4	87.4
☐							
	Total	17		85.1	94.9	85.6	95.4

Phase 4:	**Building Construction**						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Crane	1	50	74.2	76.0	77.0	79.0
☑	Telescopic Handler (Forklift)*	3	50	89.1	93.1	90.0	93.9
☑	Generator	1	50	67.1	67.8	67.9	68.4
☑	Backhoe	3	50	80.6	88.3	82.2	89.1
☑	Welding Machine	1	50	71.2	72.1	73.9	74.7
☐							
	Total	9		89.9	94.4	90.9	95.3

Phase 5:	**Paving**						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Paving - Concrete (Placer + Slipform Paver)	2	50	90.2	93.8	90.2	93.8
☑	Paving - Concrete (Texturing/Curing Machine)	2	50	76.3	77.1	76.6	77.4
☑	Paving - Concrete (Triple Roller Tube Paver)	2	50	88.1	91.4	89.1	91.9
☐							
	Total	6		92.4	95.9	92.8	96.1

Phase 6:	**Architectural Coating**						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Compressor	1	50	65.6	66.8	66.7	68.1
☐							
	Total	1		65.6	66.8	66.7	68.1

Phase 7:	**Fine Grading**						
Active	**Equipment Name**	**# of Units**	**Distance (ft)**	**Avg LAeq**	**Avg LAmax**	**Max LAeq**	**Max LAmax**
☑	Excavator	2	50	78.9	89.7	79.7	90.4
☑	Grader*	1	50	74.5	78.5	73.3	77.3
☑	Dozer	1	50	80.0	86.1	80.1	85.9
☑	Backhoe	2	50	78.8	86.6	80.5	87.4
☑	Scraper*	2	50	91.4	95.4	91.4	95.4
☐							
	Total	8		92.2	97.3	92.4	97.4

Attachment C

Project Traffic Noise Modeling Worksheets

Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)

Project: EVC Partners - Lenwood Road Facility

User Inputs (boxed cells)

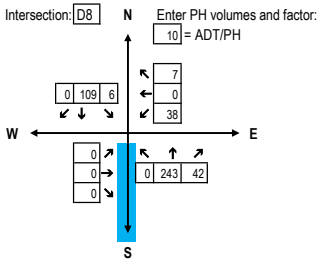
Auto %	96.00%	Day	80.00%
MT (%)	2.00%	Evening	5.00%
HT (%)	2.00%	Nighttime	15.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	76.80%	4.80%	14.40%	236.0%
MT	1.60%	0.10%	0.30%	4.9%
HT	1.60%	0.10%	0.30%	4.9%

Study Year or Condition	Roadway	Roadway Segment and Direction of Traffic	Average Daily Traffic (ADT)	Average Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)	CNEL at 60 feet	with existing wall noise reduction (-5 dB)
Project Total Trip Assignment (peak hour morning)	Lenwood Road	South of D8*, adjoining High Desert Estates	4,450	45	62.7	54.2	58.7	64.6	63.8	58.8

Notes: *Project Driveway 8, southern-most ingress/egress for Project site; Figure 12 from LTA (Dudek 2025)



Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)

Project: EVC Partners - Lenwood Road Facility

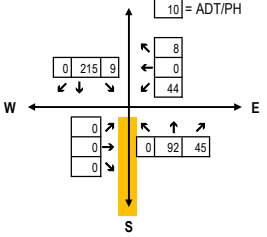
User Inputs (boxed cells)

Auto %	96.00%	Day	80.00%
MT (%)	2.00%	Evening	5.00%
HT (%)	2.00%	Nighttime	15.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	76.80%	4.80%	14.40%	236.0%
MT	1.60%	0.10%	0.30%	4.9%
HT	1.60%	0.10%	0.30%	4.9%

Intersection: D8 — Enter PH volumes and factor: 10 = ADT/PH



Study Year or Condition	Roadway	Roadway Segment and Direction of Traffic	Average Daily Traffic (ADT)	Average Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)	CNEL at 60 feet	with existing wall noise reduction (-5 dB)
Project Total Trip Assignment (peak hour afternoon)	Lenwood Road	South of D8*, adjoining High Desert Estates	4,127	45	62.4	53.8	58.3	64.2	63.4	58.4

Notes: *Project Driveway 8, southern-most ingress/egress for Project site; Figure 12 from LTA (Dudek 2025)

Attachment D

Project HVAC Sound Source Calculation Data

AHUs (plenum-type return fan only, no condenser units [see separate worksheet]):

Building Minimum Ventilation

percent GSF actually occupied (and need ventilation): 2.85

														A-weighted PWL (for CadnaA inputs)								
Tag	Building	GSF	Avail. SF	Height (ft)	Avg. minutes to change air*	Volume (ft3)	CFM	m^2	comparable facility function	Pressure (iwg)	Pressure (Pa)	Q (m^3/s)	fantype = plug, tube, or prop	63	125	250	500	1000	2000	4000	8000	OA dB
return air fans in building rooftop AHUs:																						
Bldg1	commercial	15000	428	30	20	12825	641.25	40	office space	2.5	625	0	plug	45	57	58	59	56	49	43	38	**64**
													A-weighting adjustments	26	13	9	3	0	-1	-1	1	
													average of values for the two fan diameter ranges, per Guyer (Table 12)	plug	40	40	38	34	29	23	19	16	
													average of values for the two fan diameter ranges, per Guyer (Table 12)	tube	47	44	46	47	44	45	38	35	
													per Guyer (Table 12, presumed based on Bies & Hansen ENC)	prop	46	48	55	53	52	48	43	38	
													fan or AHU cabinet liner/interior attenuation (excludes inlet/outlet PWL split, already in calcs above:		2	3	4	5	6	8	10	10	

*from Loren Cook's "Engineering Cookbook", 1999 edition, p. 42

ACCs (air-cooled chillers on rooftops):

Building Interior Comfort

with or without sound insulation? (enter Y/N): y

unweighted PWL (dB) per OCBF (Hz) at full load (100%)

	tons	LWA	63	125	250	500	1000	2000	4000	8000
Bryant BH16-018 (no sound blanket)	1.5	67	66.2	66.2	63.9	63.8	62.3	58.4	56.4	50.3
Bryant BH16-024 (no sound blanket)	2	71	65	65	63.7	63.4	68.5	64.7	58.7	52.8
Bryant BH16-036 (no sound blanket)	3	71	68.2	68.2	66.4	67.5	68.4	59.6	58.2	52.4
Bryant BH16-048 (no sound blanket)	4	71	68.4	68.4	67.7	69.7	67.6	59.4	56.4	50
Bryant BH16-060 (no sound blanket)	5	69	63.7	63.7	65.4	67.3	64.9	58.3	56.2	51.9
Daikin AGZ-E 30 (w/out sound insulation)	30	85	84	84	83	84	77	75	74	70
Daikin AGZ-E 40 (w/out sound insulation)	40	85	84	84	83	84	77	75	74	70
Daikin AGZ-E 50 (w/out sound insulation)	50	87	85	85	85	86	80	77	75	70
Daikin AGZ-E 60 (w/out sound insulation)	60	87	85	85	85	86	80	77	75	70
Daikin AGZ-E 70 (w/out sound insulation)	70	87	85	85	85	86	80	77	75	70
Daikin AGZ-E 80 (w/out sound insulation)	80	88	88	85	87	86	81	81	77	71
Daikin AGZ-E 90 (w/out sound insulation)	90	88	88	87	87	86	83	80	77	71
Daikin AGZ-E 120 (w/out sound insulation)	120	89	91	85	88	86	82	81	79	72
Daikin AGZ-E 240 (w/out sound insulation)	241	94	94	88	91	90	91	84	82	75

data for models "without sound insulation" or no "sound blankets"

LWA	63	125	250	500	1000	2000	4000	8000
68	66.2	66.2	63.8	64.1	64.6	59.9	57.7	53.6
72	63.4	63.4	63.3	63.3	70.4	64.5	59.3	55.5
72	67.7	67.7	66.8	68.1	69.9	62.8	60.3	55.2
73	67.5	67.5	67.8	70.1	70.6	63.1	58.5	53.3
70	61.7	61.7	65.6	68.1	65.8	59.8	58.4	56.1
88	92	91	88	87	83	78	73	68
89	92	91	90	88	84	79	74	69
90	93	93	91	89	85	79	74	69
91	94	93	94	89	86	81	76	71
92	95	95	94	89	87	81	76	71
92	95	95	95	89	87	81	76	71
93	94	95	92	91	89	83	81	81
95	93	96	92	92	90	84	84	82
100	98	98	98	95	96	90	90	86

data for models "with sound insulation" or "sound blankets"

LWA	63	125	250	500	1000	2000	4000	8000
67	66.2	66.2	63.9	63.8	62.3	58.4	56.4	50.3
71	65	65	63.7	63.4	68.5	64.7	58.7	52.8
71	68.2	68.2	66.4	67.5	68.4	59.6	58.2	52.4
71	68.4	68.4	67.7	69.7	67.6	59.4	56.4	50
69	63.7	63.7	65.4	67.3	64.9	58.3	56.2	51.9
85	84	84	83	84	77	75	74	70
85	84	84	83	84	77	75	74	70
87	85	85	85	86	80	77	75	70
87	85	85	85	86	80	77	75	70
87	85	85	85	86	80	77	75	70
88	88	85	87	86	81	81	77	71
90	88	87	87	86	83	80	77	71
89	91	85	88	86	82	81	79	72
94	94	88	91	90	91	84	82	75

actual percent of GSF occupied: 2.85

Phase	Building Tag	GSF	Avail. SF	comparable facility function	Avg. GSF per ton*	tons of refrig.	Approx. Qty. of ACCs	tons per ACC	Approx. Total PWL (dBA)
Bldg1	commercial	15000	428	commercial shops and restaurants	165	2.6	1	3	**71**

*based upon "lo" value per Loren Cook's "Engineering Coolbook", 1999 edition, pp. 59-60

unweighted PWL (dB) per OCBF (Hz) at full load (100%)

63	125	250	500	1000	2000	4000	8000
65	65	64	63	69	65	59	53

a weighting adj

Appendix J
Transportation Impact Study

DRAFT

Transportation Impact Study

Electric Vehicle Charging Station and Logistics Facility Project San Bernardino County

JANUARY 2026

Prepared for:

EVC PARTNERS LLC
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Sacramento, California 95816
Contact: Phil Angelides

Prepared by:

DUDEK

687 S. Coast Highway 101, Suite 110
Encinitas, California 92024

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APPENDIX

A EV Charging Truck Stop/Auto and Distribution Center Vehicle Miles Traveled Analysis

1 Introduction

1.1 Purpose and Scope of the TIS

The purpose of this Transportation Impact Study (TIS) is to identify potential transportation-related impacts associated with the proposed Electric Vehicle (EV) Charging Station and Logistics Facility Project (project) to be located on Lenwood Road between California State Route 58 (SR-58) and Interstate 15 (I-15) in San Bernardino County (Figure 1, Project Location). This TIS has been prepared per the San Bernardino County Transportation Impact Study Guidelines (San Bernardino County 2019), the San Bernardino County Transportation Authority's (SBCTA) Congestion Management Program (CMP) (SBCTA 2016) and Caltrans Transportation Impact Study Guide (Caltrans 2020). In addition, this TIS complies with the City of Barstow General Plan Circulation Element (City of Barstow 2015).

The objectives of this TIS are to:

- Document existing roadway, pedestrian, bicycle, and transit conditions in the study area;
- Estimate the trip generation for the proposed project on a daily, AM, and PM peak hour basis;
- Provide a Vehicle Miles Traveled (VMT) analysis per Senate Bill 743, the California Environmental Quality Act (CEQA) Guidelines, and the San Bernardino County Transportation Impact Study Guidelines; and
- Identify CEQA-required mitigation measures for significant transportation impacts.

1.2 Project Description

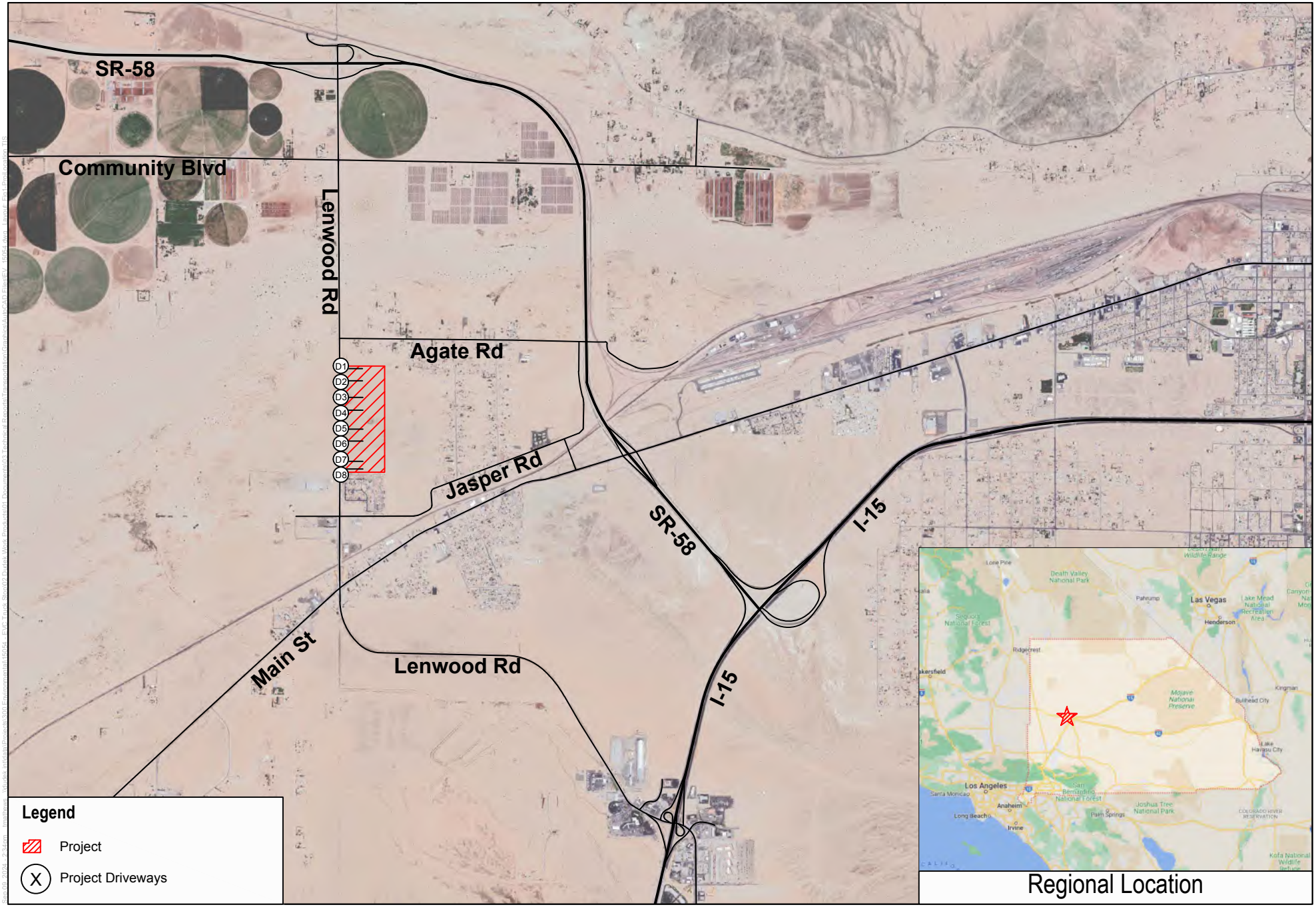
The approximately 100-acre Project site includes four parcels (049-714-203, 049-714-204, 049-714-214, and 049-714-215) and is located on Lenwood Road between CA 58 and Interstate-15, approximately one mile west of CA 58 and four miles west of downtown Barstow. The Project site is undeveloped and surrounded by undeveloped lands with the exception of rural residential properties to the north and a single-family residential neighborhood, High Desert Estates, located adjacent to the southern Project boundary.

The project site plan is provided as Figure 2, and a summary of the proposed land uses is presented in Table 1. The Project is proposing development on approximately 20-acres in the southern portion of the site with an electric vehicle (EV) charging hub for light duty/passenger vehicles and medium and heavy-duty trucks. The site will have a range of EV chargers to serve different charging needs (e.g., automobiles vs medium and heavy-duty trucks; slower chargers for overnight truck charging vs: fast charging for trucks, etc.). The EV charging station will include a commercial building of up to 15,000 square feet (SF) that will contain ancillary uses (e.g., food, convenience services, amenities for site users, etc.) for those using the station, as well as for local residents and nearby light industrial uses. The remaining site is proposed to include three warehouse buildings of 447,144 SF each, for a total of 1,341,432 SF of light industrial warehouse, logistic, and distribution facilities. Access would be provided from Lenwood Road via eight driveways, with a four-lane internal road provided between the EV charging station and the logistics facility. Section 8 provides further information about the proposed site access and frontage improvements.

Table 1. Summary of Proposed Project Components

	Land Use	Size
EV Charging Station	Truck Chargers	45 chargers
	Auto Chargers	8 chargers
	Truck Wash	6,000 SF; 2 lanes
	Truck Maintenance	4,000 SF; 4 bays
Commercial	Retail	12,000 SF
	Fast Food with Drive-thru	3,000 SF
Warehouse	Building A	447,144 SF
	Building B	447,144 SF
	Building C	447,144 SF
	Subtotal	*1,341,432 SF*

Notes: SF = square feet



SOURCE: Google Earth 2023

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FIGURE 1

Project Location and Study Area

EV Charging Truck Stop & Distribution Center

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SITE LEGEND:

- BUILDING AREA
- SITE CONCRETE
- COMMERCIAL AREA
- ADA PATH OF TRAVEL
- ASPHALT AREA
- LANDSCAPE AREA
- EXISTING PROPERTY LINE
- NEW PARCEL LINE
- ▽ 9' X 10' OVERHEAD DOCK LEVEL DOOR
- ▼ 12' X 14' OVERHEAD GRADE LEVEL DOOR
- FIRE DEPARTMENT TURN RADIUS: R19' R45'

SOURCE: RMW Architecture Interiors, 2026

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FIGURE 2

Project Site Plan

EV Charging/Logistics Facility Project

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2 Study Area

This section provides a summary of the existing street network, including the major roadways serving the site, the existing transit service, and bicycle and pedestrian facilities in the study area.

2.1 Existing Street Network

Figure 3 provides the County of San Bernardino Roadway Network and Figure 4a provides the City of Barstow General Plan Roadway Network. The City is in the process of updating their General Plan and associated circulation maps. A map of the City's proposed roadway network is provided as Figure 4b and a map of the City's proposed goods movement routes is provided as Figure 5 (City of Barstow 2025). Characteristics of the primary roadways within the study area are described below.

- I-15 is a north-south, divided, four to eight-lane freeway classified as a major interstate freeway that begins near the Mexico—US Border and extends to Alberta, Canada, and serves as a critical connection for many other regional roadways, freeways, and highways. Caltrans classifies I-15 as a designated truck route. The nearest interchange to the site is provided at I-15 and Lenwood Road, approximately 3.25 miles south of the site.
- State Route 58 is a four-lane east-west divided highway which currently has its eastern terminus at the I-15 freeway in south Barstow. SR-58 provides regional access westerly to Bakersfield and northern California cities. The nearest interchange to the site is provided at SR-58 and Lenwood Road, approximately 1.5 miles north of the site. SR-58 is a designated truck route in the City of Barstow Circulation Element.
- Community Boulevard is an east-west two-lane roadway between Hinkley Road to the west and Old Highway 58 to the east. Community Boulevard is designated as a Collector in the City of Barstow Circulation Element.
- Lenwood Road is a north-south two to four-lane road designated as a Major Highway in the County's Roadway Network and a Primary Arterial in the City of Barstow Circulation Element. Lenwood Road is proposed as an Industrial Arterial as part of the City's General Plan update (City of Barstow 2025). Lenwood Road serves the west end of Barstow; with an interchange at I-15, and intersects west Main Street in the unincorporated community of Lenwood. North of Main Street it crosses the Mojave River and the BNSF Railroad to link with SR-58. South of I-15, Lenwood Road was extended to the old Sidewinder Road interchange. This new roadway, named Outlet Center Drive, provides a secondary access to the Lenwood Road/I-15 Freeway interchange commercial area. Portions of Lenwood Road, near the I-15 interchange and commercial areas and near Main Street have been fully improved with sidewalks, curb and gutter, and widened to four lanes, with left turn pockets at major intersections.
- Agate Road is a two-lane local road between Lenwood Road to the west and Western Drive to the east. Agate Road serves the residential neighborhoods to the north and east of the project site.
- Jasper Road is a two-lane local road between Roadrunner Road to the west and Pettit Road to the east. East of Pettit Road, Jasper Road traverses north-south where it terminates at Agate Road to the north.
- Main Street (old U.S. Highway 66) is the key east-west arterial through the City of Barstow and is designated as a Major Highway in the County's Roadway Network and as a Primary Arterial in the City of Barstow Circulation Element. Main Street is also a designated truck route in the City of Barstow Circulation Element. It currently has interchanges with I-15 and I-40. West of Lenwood Road, the roadway becomes National Trails Highway and provides local access to the Helendale/Oro Grande areas. This roadway also serves as an alternative route for I-15 south to Victorville.

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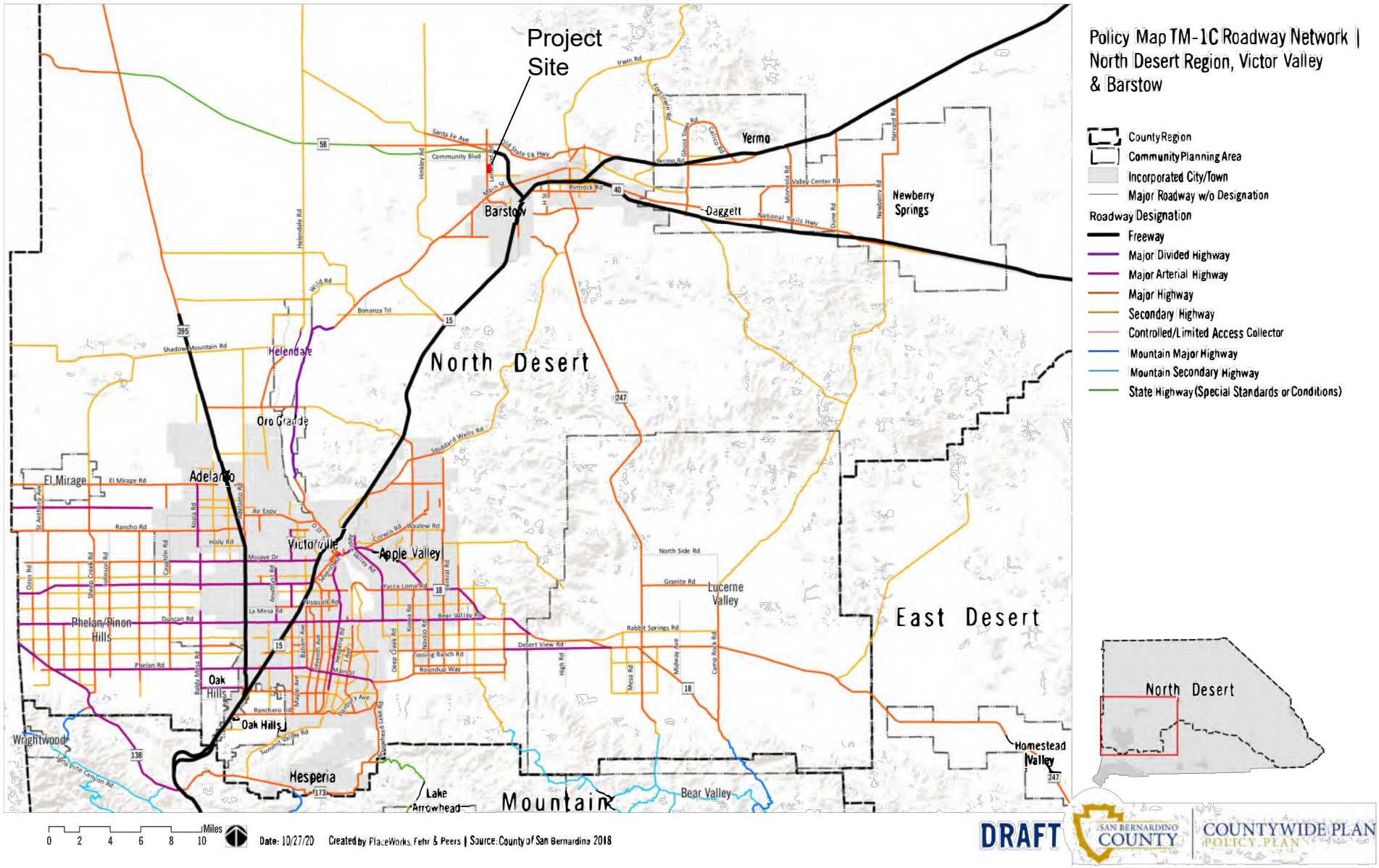

SOURCE: San Bernardino County, 2018.

FIGURE 3

San Bernardino County Roadway Network

EV Charging/Logistics Facility Project

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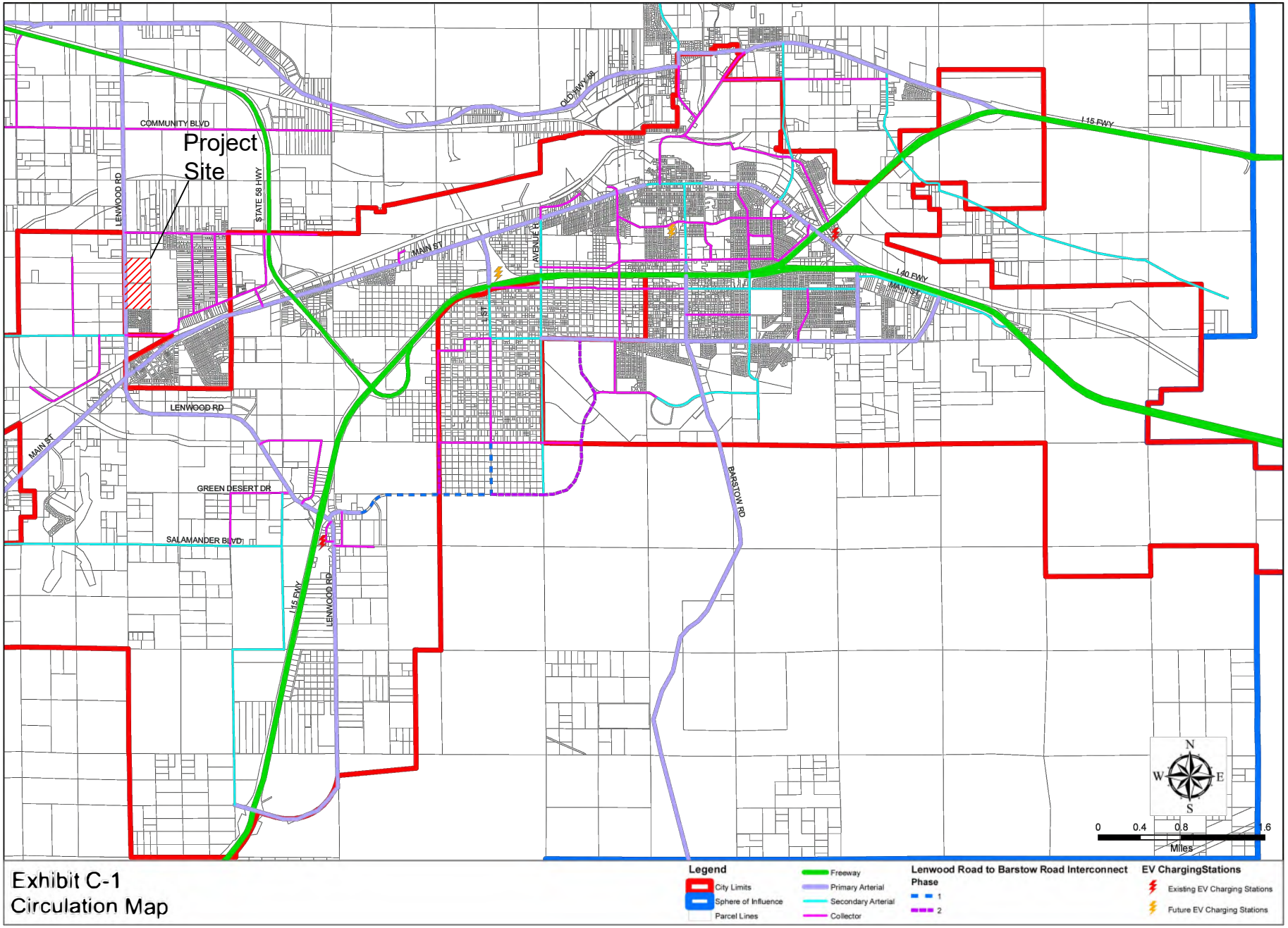

SOURCE: City of Barstow, 2015.

FIGURE 4a

City of Barstow Circulation Plan

EV Charging/Logistics Facility Project

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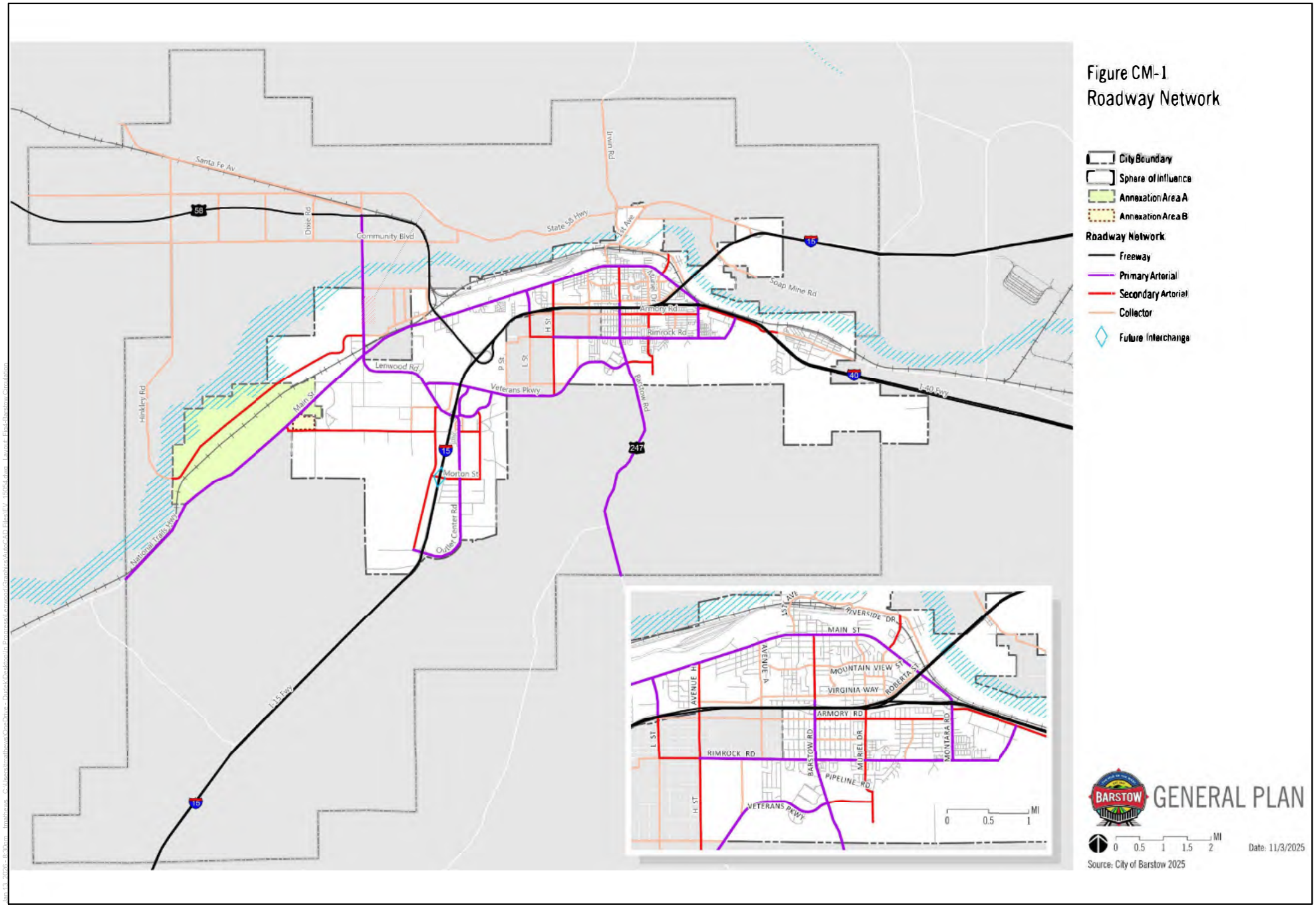

SOURCE: City of Barstow, 2025.

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FIGURE 4b

City of Barstow Circulation Plan

EV Charging/Logistics Facility Project

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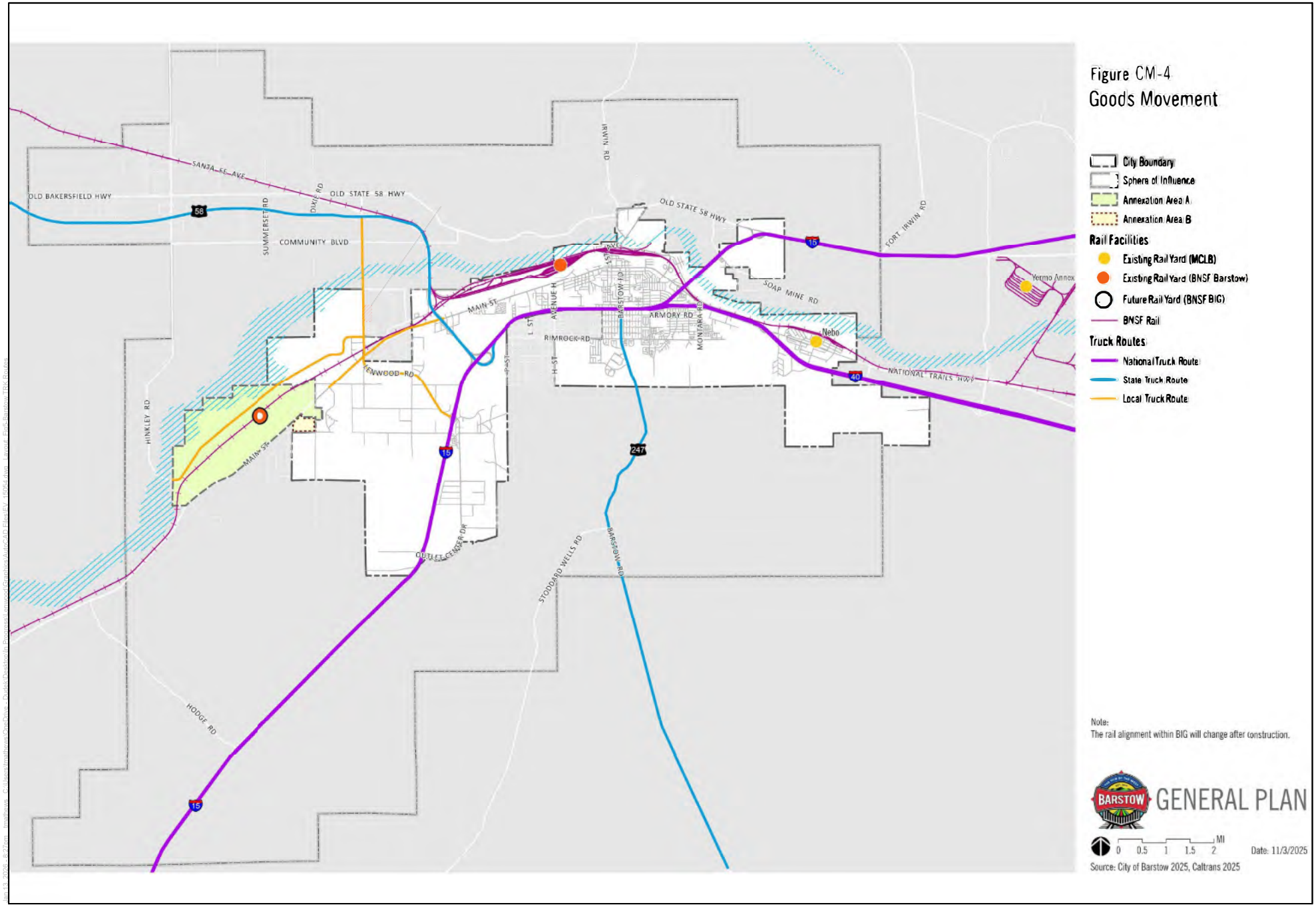

SOURCE: City of Barstow, 2025.

FIGURE 5

City of Barstow Goods Movement

EV Charging/Logistics Facility Project

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2.2 Transit System

The City of Barstow (and its sphere of influence) is served by bus services provided by the Victor Valley Transit Authority (VVTA), which provides regional and local services throughout Victor Valley. Regionally, the City is served by passenger rail services offered by the National Railroad Passenger Corporation (Amtrak). The rail and transit providers are described below.

Victor Valley Transit Authority

VVTA provides local bus service for the communities of Adelanto, Apple Valley, Barstow, Helendale, Hesperia, Victorville, and unincorporated areas of San Bernardino County. VVTA operates five local bus routes in Barstow, providing bus connections between City Hall, shopping centers, schools and colleges, and residential areas. Route 3 shown in Figure 6, Existing Transit Facilities, is the closest bus route to the project site, with bus stops near the corner of Lenwood Road and Camino Del Sol, approximately 315 feet south of the project site, and near the corner of Lenwood Road and Agate Road, approximately 675 feet north of the project site. The route operates weekdays, between 6:00 a.m. and 7:50 p.m., Saturday and Sunday between 8:00 a.m. and 4:50 p.m. (VVTA 2023).

VVTA also provides commuter service between Barstow and Fort Irwin and regional service between Barstow, Victorville and San Bernardino, and Barstow, Hinkley and Helendale.

VVTA also offers paratransit services for persons with special needs on any paved street within Barstow as long as it is within their service boundaries. The VVTA paratransit services do not travel a fixed route and provide a flexible alternative to the fixed bus routes (VVTA 2023).

Amtrak

Amtrak is a national rail operator, with 21,000 route miles in 46 states, the District of Columbia, and three Canadian Provinces. The closest passenger rail station is the Barstow Amtrak Station, located at 650 North First Avenue in Barstow, located approximately six miles east of the project site. The Barstow Amtrak Station is part of the Southwest Chief Route, an east-west rail line extending from Los Angeles, California, to Chicago, Illinois (Amtrak 2023).

2.3 Pedestrian and Bicycle Facilities

The project site is primarily surrounded by vacant land (except for residential to the north and south) with limited pedestrian or bicycle infrastructure provided. Where new development has occurred, sidewalks typically have been constructed along project site frontages and within residential developments. A sidewalk is provided on the west side of Lenwood Road, along the frontage of the Valmont Utility company, immediately south of the project site. As the adjacent areas surrounding the project site continue to develop, pedestrian access will be improved.

Figure 7 presents the County's Bicycle and Pedestrian Planning Policy Map and Figure 8a presents the City's existing bicycle routes, and Figure 8b presents the City's proposed bicycle network. As shown in the figures, Class II bicycle lanes (painted on-street lane) are proposed on Lenwood Road, between Agate Road to the north and Main Street to the south, and between High Point Parkway and Mercantile Way. This includes the segment of Lenwood Road along the project frontage. Class II bicycle lanes are also proposed on Main Street in the vicinity of the site. An east-west equestrian trail is also proposed south of Community Boulevard beginning near the western City limits and continuing east to the eastern City limits (San Bernardino County 2018).

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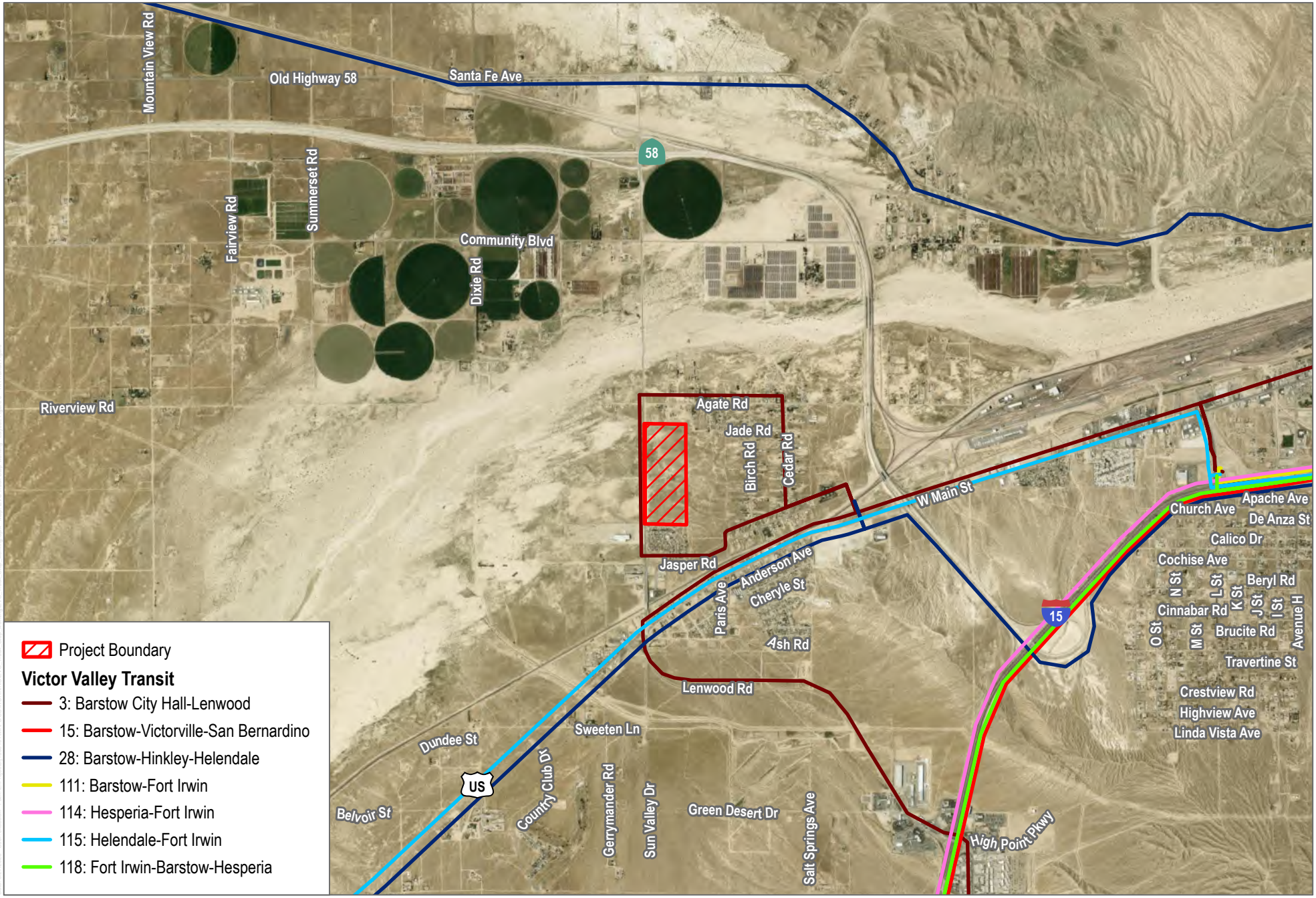

SOURCE: Victor Valley Transit 2024; Open Street 2019; Maxar 2024

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0 2,000 4,000 Feet

FIGURE 6

Existing Transit Facilities

EV Charging/Logistics Facility Project

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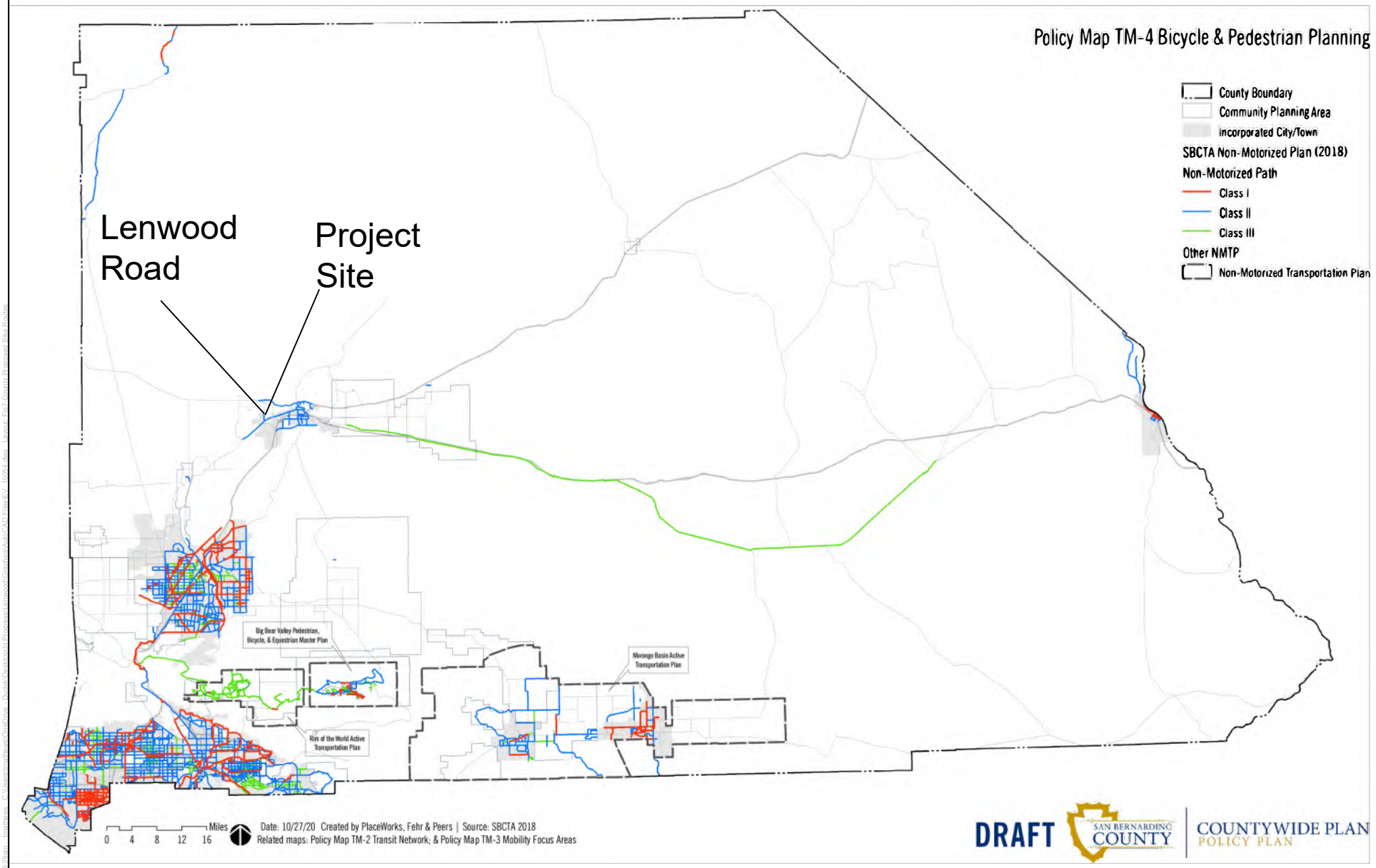

SOURCE: County of San Bernardino, 2018.

FIGURE 7

San Bernardino County Bicycle and Pedestrian Planning Policy Map

EV Charging/Logistics Facility Project

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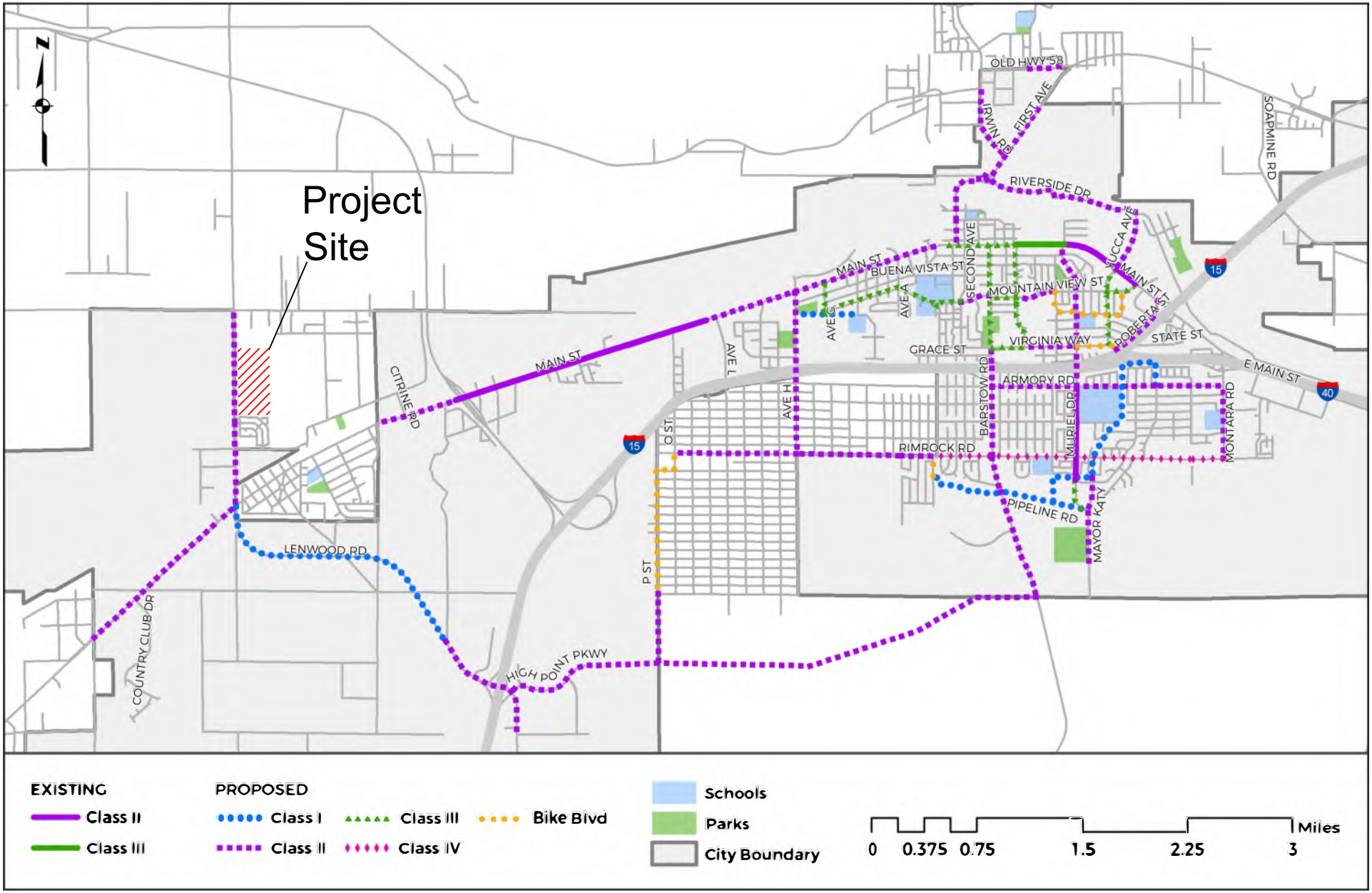

SOURCE: City of Barstow, 2018.

FIGURE 8a

City of Barstow Pedestrian Paths, Bicycle Routes, and Park and Ride

EV Charging/Logistics Facility Project

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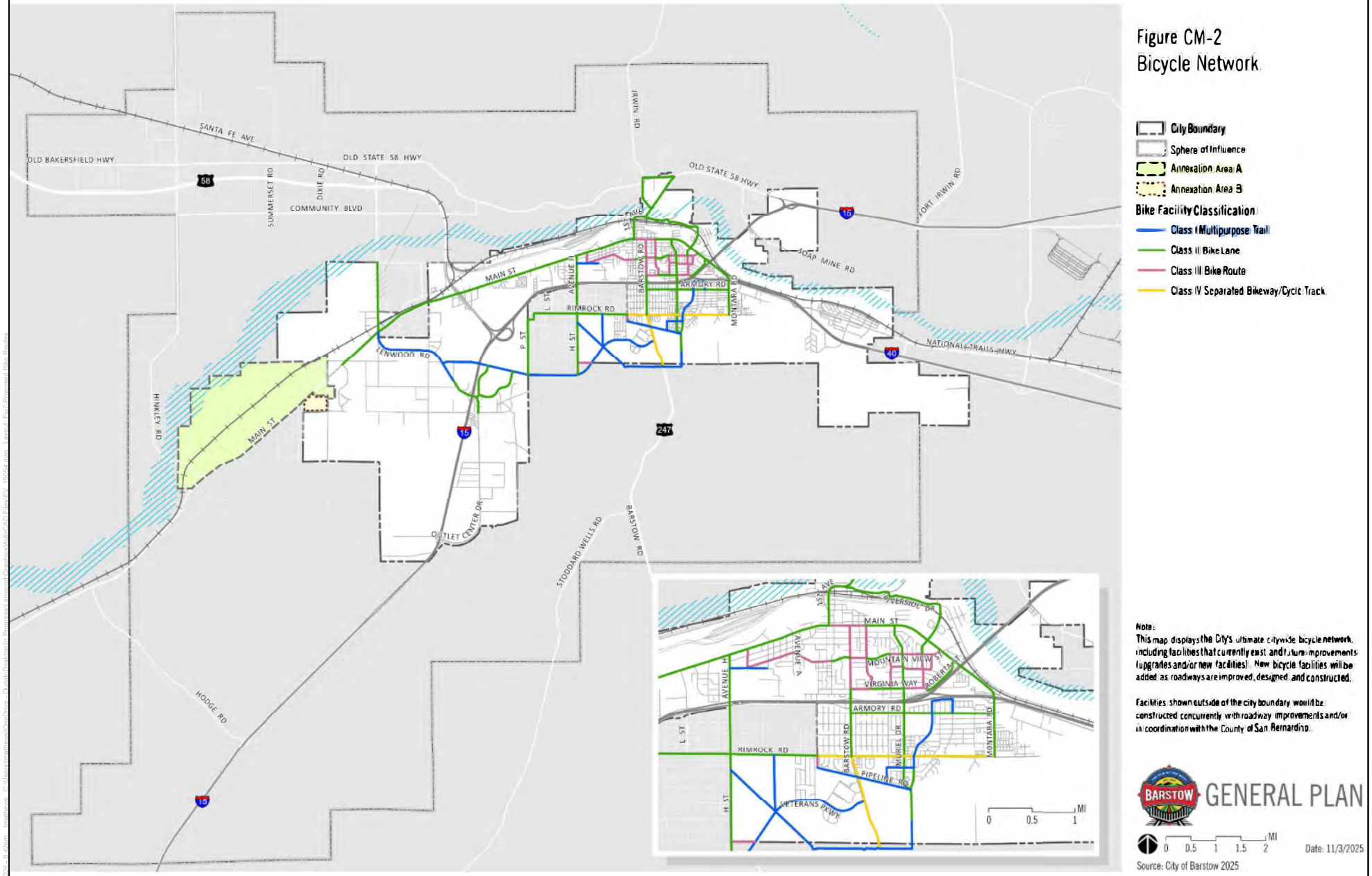

SOURCE: City of Barstow, 2025.

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FIGURE 8b

City of Barstow Bicycle Routes

EV Charging/Logistics Facility Project

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3 Project Trip Generation

The estimated project trip generation is presented in Table 2. Trip generation estimates for the proposed commercial building and logistics facility are based on daily and AM and PM peak hour trip generation rates obtained from the Institute of Transportation Engineers (ITE) Trip Generation Handbook, 11th Edition (ITE 2021). There are no industry standard rates for EV charging stations; therefore, trip rates for the EV charging station (by charging/fuel type) are based on assumptions regarding the maximum charging capacity, utilization rates, and other anticipated site operations. The assumptions are outlined in detail in the trip generation table notes.

Additionally, passenger car equivalent (PCE) factors were applied to the trip generation estimates to account for truck traffic. The San Bernardino County Congestion Management Program (CMP) indicates that projects with high truck percentages should convert project trips to PCE. A 1.5 PCE factor was applied to 2-axle trucks, 2.0 PCE for 3-axle trucks, and a 3.0 PCE factor was applied to 4-axle trucks, per the San Bernardino County CMP (San Bernardino Associated Governments 2016). As the ITE Trip Generation Handbook does not provide a breakdown of truck traffic by axle classification, vehicle mix data and percentages are also applied to the project trip generation estimates from the Southern California Air Quality Management District (SCAQMD) Warehouse Truck Trip Study Data Results and Usage (SCAQMD 2014).

As shown in Table 2, the project would generate 5,580 daily trips, 409 AM peak hour trips, and 447 PM peak hour trips. This is equivalent to 7,466 daily PCEs, 521 AM peak hour PCEs, and 569 PM peak hour PCEs.

Table 2. Project Trip Generation

Land Use	ITE Code	Size/Units		Daily	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
TRIP RATES[1]										
Strip Retail Plaza	822	TSF		54.45	1.42	0.94	2.36	3.30	3.30	6.59
Fast food with drive-through	934	TSF		467.48	22.75	21.86	44.61	17.18	15.85	33.03
EV Charging Station	N/A	see assumptions below[6]								
High-Cube Fulfillment Center Warehouse (non-sort)	155	TSF		1.81	0.12	0.03	0.15	0.06	0.10	0.16
TRIP GENERATION										
Strip Retail[2]	822	12	TSF	653	17	11	28	40	40	79
Fast food with drive-through[2]	934	3	TSF	1,402	68	66	134	52	48	99
EV Charging- Autos[6]	N/A	8	fast chargers	439	13	13	26	15	15	30
EV Charging- Trucks[6]	N/A	30+15	fast chargers	658	10	10	20	12	12	24
Warehouse	155	1341.432	TSF	2,428	163	38	201	84	131	215
			Subtotal (Non-PCE)	*5,580*	*271*	*138*	*409*	*202*	*245*	*447*
TRIP GENERATION BY VEHICLE MIX (Non-PCE)										
Vehicle Mix- Commercial										
Passenger Vehicles	100.0%			2,056	85	77	162	91	87	178
Vehicle Mix- Auto Chargers										
Passenger Vehicles	100.0%			439	13	13	26	15	15	30
Vehicle Mix- EV Truck Chargers[3]										
2-Axle Trucks	40.0%			263	4	4	8	5	5	10
3-Axle Trucks	10.0%			66	1	1	2	1	1	2
4+-Axle Trucks	50.0%			329	5	5	10	6	6	12
EV Truck Chargers Total (Non-PCE)	**100%**			**658**	**10**	**10**	**20**	**12**	**12**	**24**
Vehicle Mix- Warehouse[4]										
Passenger Vehicles	72.5%			1,760	118	28	146	61	95	156

Table 2. Project Trip Generation

Land Use	ITE Code	Size/Units	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
2-Axle Trucks		4.6%	112	7	2	9	4	6	10
3-Axle Trucks		5.7%	138	9	2	11	5	7	12
4+-Axle Trucks		17.2%	418	28	7	35	14	23	37
Warehouse Total (Non-PCE)		**100%**	**2,428**	**162**	**39**	**201**	**84**	**131**	**215**
Total Site									
		Total Passenger Vehicles	**4,255**	**217**	**118**	**334**	**167**	**197**	**364**
		Total Trucks	**1,325**	**55**	**20**	**75**	**35**	**48**	**83**
		Total Trip Generation (Non-PCE)	**5,580**	**271**	**138**	**409**	**202**	**245**	**447**
TRIP GENERATION BY VEHICLE MIX (PCE)									
		Commercial Total (PCE)	**2,056**	**85**	**77**	**162**	**91**	**87**	**178**
		Auto Chargers Total (PCE)	**439**	**13**	**13**	**26**	**15**	**15**	**30**
EV Truck Chargers (PCE)		PCE[5]	—	—	—	—	—	—	—
Passenger Vehicles		n/a	—	—	—	—	—	—	—
2-Axle Trucks		1.5	395	6	6	12	7	7	14
3-Axle Trucks		2.0	132	2	2	4	2	2	4
4+-Axle Trucks		3.0	986	15	15	30	18	18	36
		Total Passenger Vehicles	**0**	**0**	**0**	**0**	**0**	**0**	**0**
		Total Trucks	**1,513**	**23**	**23**	**46**	**27**	**27**	**54**
		EV Charging Total (PCE)	**1,513**	**23**	**23**	**46**	**27**	**27**	**54**
Warehouse (PCE)		PCE[5]	—	—	—	—	—	—	—
Passenger Vehicles		1.0	1,760	118	28	146	61	95	156
2-Axle Trucks		1.5	168	11	3	14	6	9	15
3-Axle Trucks		2.0	277	19	4	23	10	15	25
4+-Axle Trucks		3.0	1,253	84	20	104	43	68	111
		Total Passenger Vehicles	**1,760**	**118**	**28**	**146**	**61**	**95**	**156**
		Total Trucks	**1,698**	**114**	**27**	**141**	**59**	**92**	**151**
		Warehouse Total (PCE)	**3,458**	**232**	**55**	**287**	**120**	**187**	**307**

Table 2. Project Trip Generation

Land Use	ITE Code	Size/Units	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Total Site Trip Generation (PCE)			**7,466**	**353**	**168**	**521**	**253**	**316**	**569**

Notes: Rounding discrepancies may occur. TSF = Thousand Square Feet; PCE = Passenger Car Equivalent

1 Trip rates from the Institute of Transportation Engineers (ITE), *Trip Generation, 11th Edition, 2021.*

2 Assumes commercial land use consists of 12,000 SF of general commercial and 3,000 SF of fast-food restaurant with drive-through.

3 Based on assumed project operations, 40% of trucks would be 2-axle, 10% would be 3-axle, and 50% would be 4+-axle.

4 Vehicle mix and percent from SCAQMD Warehouse Truck Trip Study Data Results and Usage, July 17, 2014.

5 Passenger Car Equivalent (PCE) factors from the San Bernardino County CMP, Appendix B - Guidelines for CMP Traffic Impact Analysis Reports in San Bernardino County, 2016.

6 Charging Station Assumptions:

EV Autos- 8 DC Fast chargers				
Count	8			
Max rate (kw)	250			
Avg Battery Capacity (kWh)	75			
Avg Amount Charged	70%			
kWh Charged / Visit	52.5			
Fast Charger Dwell Time (hrs)	0.21			
Theoretical Max (auto/hr)	38.10			
Theoretical Maximum (vehicle/day)	914.29			
Average Utilization	24%			
Average vehicles per day	219.43	(438.86 daily trips)		
AM Peak, equal split, 6% of daily total occurs during AM peak	Based on ITE rates for truck stop			
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	Based on ITE rates for truck stop			
EV Trucks- 30 DC Fast chargers (slower) + 15 DC Fast chargers				
See EV Charging Calculator tab for details	Light Duty	Medium Duty	Heavy Duty	
Total Theoretical Max / Hour	102.9	51.4	21.4	
Theoretical Maximum (vehicle/day)	2469.6	1233.6	513.6	
Average Utilization	40%	40%	40%	
Utilization Rate Avg Vehicle/Day	987.8	493.4	205.4	1686.7 daily trips
Percent of Truck Traffic (same as warehouse vehicle mix)	40.0%	10.0%	50.0%	

Vehicles/Day Based on % of Traffic	132	33	164	329 daily trips
Average Daily Trucks	263	66	329	658 daily trips
AM Peak, equal split, 6% of daily total occurs during AM peak	Based on ITE rates for truck stop			
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	Based on ITE rates for truck stop			

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4 Project Site Access

This section describes the proposed site access and roadway improvements, emergency access and pedestrian and bicycle access.

Site Access and Circulation

Access to the EV charging station would be via two full-access driveways along Lenwood Road, with the main driveway providing access to a four-lane internal road between the EV charging station and the logistics facility. Access to the logistics facility would be via six full access driveways along Lenwood Road, with access for both passenger cars and trucks, as shown in Figure 2. The driveways would vary in width from 30 feet to 50 feet. The project would provide a new 60-foot-wide roadway dedication providing future access to the property to the east of the site. Figure 9 presents the proposed 60-foot roadway section for the new public roadway proposed.

A Local Transportation Assessment was prepared for the project to analyze potential roadway and intersection traffic impacts with the project-added traffic. The Highway Capacity Manual (HCM) Synchro reports generated for the intersection level of service analyses provide preliminary queuing results for each of the project driveways. The reports show negligible queuing would occur at each of the driveways under all scenarios evaluated. Given the results of the HCM queuing reports, the proposed two-way left turn lane along the project frontage, and the low volume of through traffic on Lenwood Road, no off-site queuing issues are anticipated. As future development occurs along the west side of Lenwood Road, site access and potential off-site queuing should be evaluated as part of future development proposals.

Proposed Frontage Improvements

Lenwood Road is currently a two-lane north-south oriented roadway that is classified as a 104-foot wide Major Highway in the County's Circulation Master Plan. The project would improve the east side of Lenwood Road to its ultimate half-width along the project site's frontage including the construction of sidewalk, curb and gutter. This half section would contain a 10-foot shoulder, two 12-foot northbound travel lanes and half of a 12-foot center lane. The 10-foot shoulder would provide the dedicated right-of-way for implementation of a Class II bike lane as identified in the County's Circulation Master Plan (timing to be determined in consultation with the County). In addition, the project would add 6 feet of paving to the west half of Lenwood Road to accommodate the balance of the center striped median lane and would repave the existing southbound travel lane, to the extent such paving and re-paving have not already been completed by others. Further, the project would transition Lenwood Road back to existing width and provide striping north of the project boundary to Agate Road. See Figure 10, Proposed Lenwood Road Section, illustrating the proposed frontage improvements. These proposed improvements may be modified upon further review of the County Public Works and Land Use Services Departments. The right-of-way dedication for and construction of the ultimate width of the west side of Lenwood Road will be determined by future agreement between the City of Barstow and the County.

Emergency Access

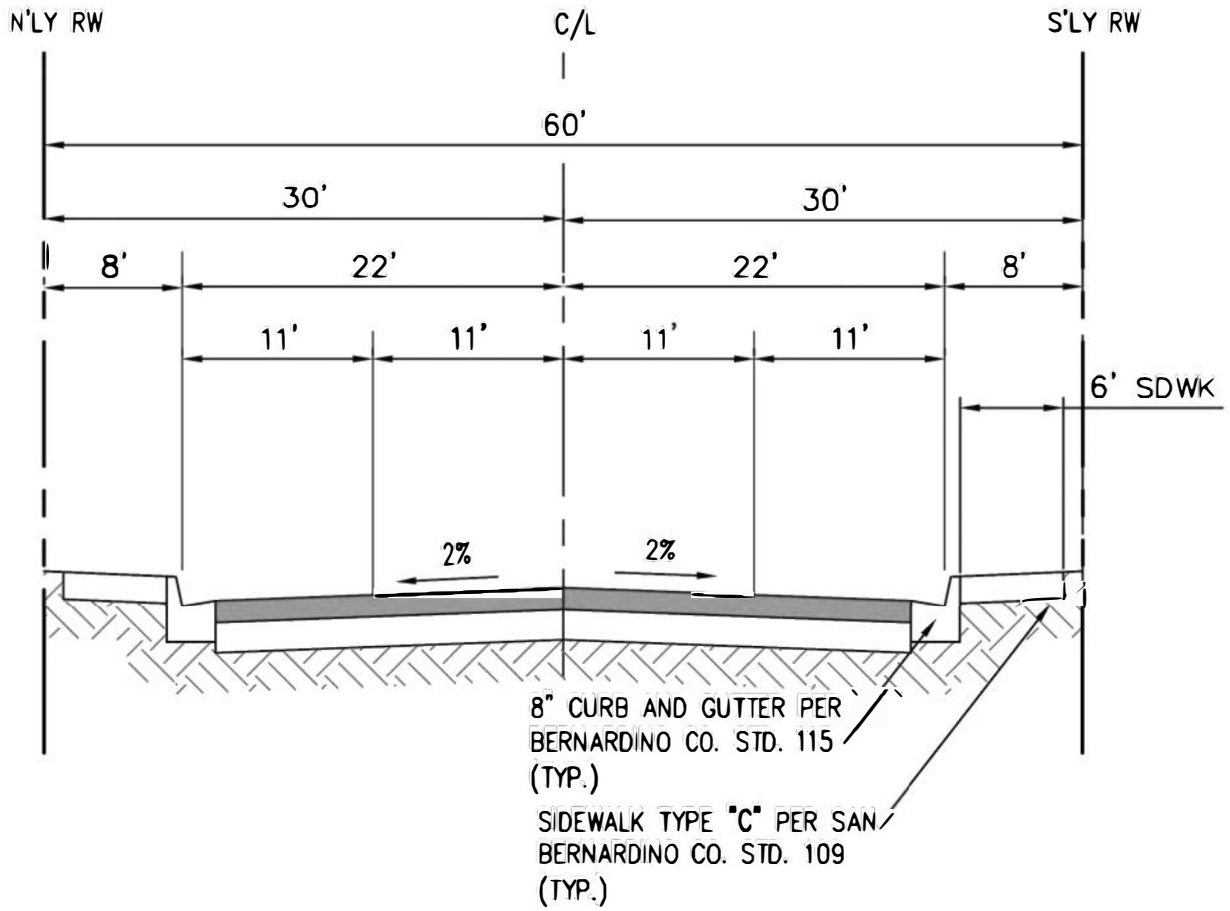
All roadway, intersection and project access improvements would be overseen by the County and their qualified traffic engineers. This approach would ensure compliance with all applicable roadway design requirements. In the event of an emergency all the site access driveways would enable vehicles to enter/exit the project site. All street

improvements will be designed with adequate width, turning radius, and grade to facilitate access by County's firefighting apparatus, and to provide alternative emergency ingress and egress. The site plan would be subject to plan review by the County's Fire Department to ensure proper access for fire and emergency response is provided and required fire suppression features are included. Therefore, the project's impact due to inadequate emergency access would be less than significant. As such, no hazardous design features would be part of the project's roadway improvements or site access.

Pedestrian and Bicycle Access

The project site is primarily surrounded by vacant land with limited pedestrian or bicycle infrastructure provided. As described above, the project will construct sidewalk, curb and gutter along the project frontage, as well as provide the dedicated right-of-way for implementation of a Class II bike lane as identified in the County's Circulation Master Plan. As the adjacent areas surrounding the project site continue to develop, pedestrian and bicycle access will be improved.

Sidewalks are proposed throughout the project site providing pedestrian access to the various uses within the site, including the charging station, the commercial area, parking areas, and the logistics facility.



PROPOSED NEW 60' ROADWAY SECTION

(INDUSTRIAL COLLECTOR SAN BERNARDINO CO. STD. 103b)
NO SCALE

NOTE:

1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED FROM SOILS TEST AND SO INDICATED ON CONSTRUCTION PLANS

SOURCE: Transtech, 2025.

FIGURE 9

Proposed Internal Local Industrial Road Cross-Section

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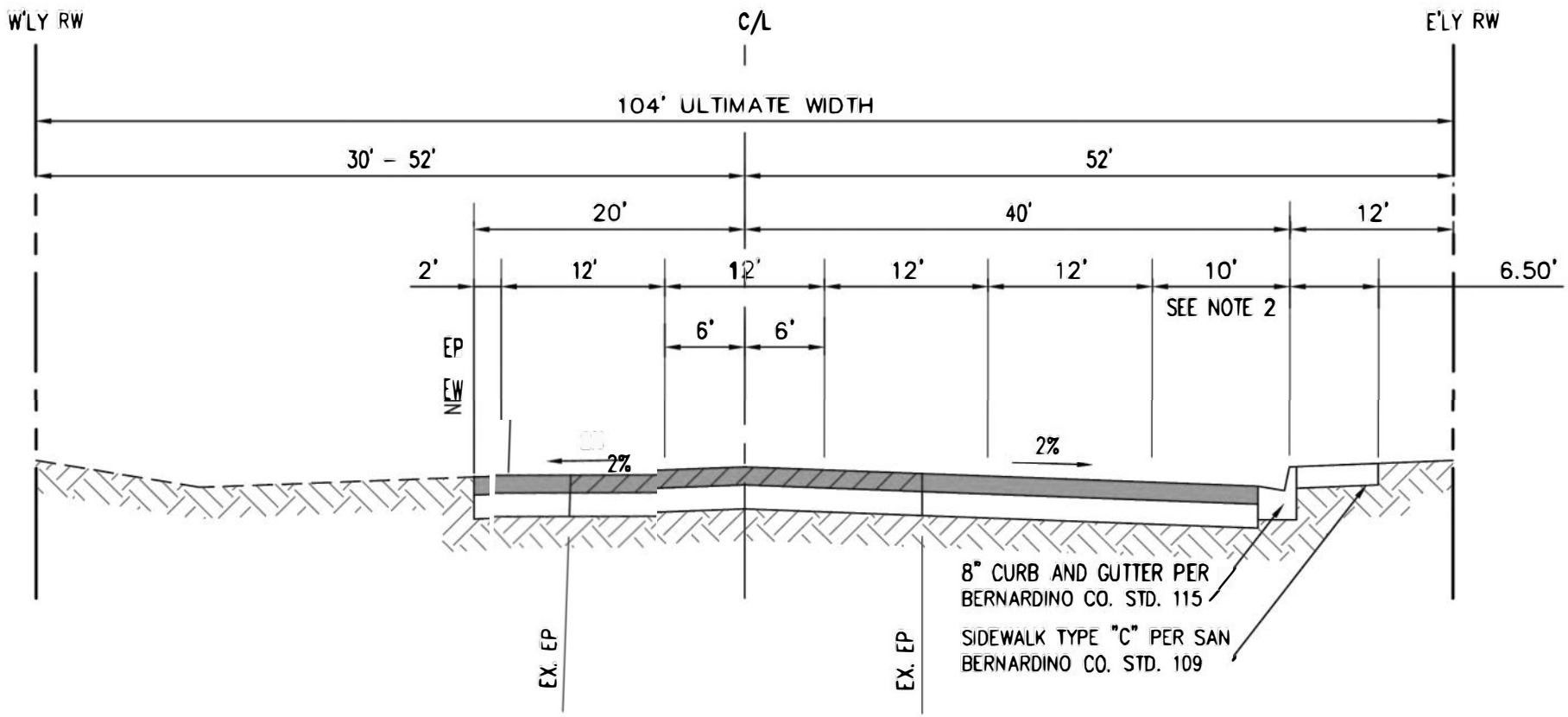

PROPOSED LENWOOD ROAD SECTION

WITH CONTINUOUS LEFT TURN LANE

(MAJOR HIGHWAY SAN BERNARDINO CO. STD. 101)

NO SCALE

NOTE:

1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED FROM SOILS TEST AND SO INDICATED ON CONSTRUCTION PLANS
2. TEN FEET (10') SHOULDER AREAS MAY BE DESIGNATED AS BIKE LANES AND EMERGENCY PARKING.

SOURCE: Transtech, 2025.

FIGURE 10

Proposed Lenwood Road Cross-Section

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5 Vehicle Miles Traveled Analysis

On September 27, 2013, SB 743 was signed into law, which creates a process to change the way that transportation impacts are analyzed under California Environmental Quality Act (CEQA). SB 743 required the Governor's Office of Planning and Research (OPR) to amend the CEQA Guidelines to provide an alternative to level of service (LOS) for evaluating transportation impacts. Under the new transportation guidelines, LOS, or vehicle delay, is no longer considered an environmental impact under CEQA. OPR recommended vehicle miles traveled (VMT) as the most appropriate measure to evaluate a project's transportation impacts for land use projects and land use plans. The updates to the CEQA Guidelines required under SB 743 were approved on December 28, 2018.

In accordance with SB 743, the County of San Bernardino Transportation Impact Study Guidelines (San Bernardino County 2019) includes guidance and thresholds for conducting a VMT analyses for determining significant impacts under CEQA. A project-level VMT analysis has been completed for the project following the County's Guidelines. Detailed calculations and model outputs are included in Appendix A.

5.1 Project Screening

The County's Guidelines identifies projects that can be screened from conducting a project-specific VMT analysis based on the following screening criteria:

- Local Serving Project Screening
- Projects Generating Less than 110 Daily Vehicle Trips
- Transit Priority Area (TPA) Screening
- Low VMT Area Screening

A land use project need only meet one of the above screening thresholds to result in a less-than-significant impact.

Local Serving Project Screening

The County Guidelines suggest Local-Serving Retail under 50,000 SF and Local Essential Services such as K-12 schools, day care centers, and community institutions shortens nondiscretionary trips by putting those goods and services closer to residents, resulting in an overall reduction in VMT.

The project includes amenities that cater to both local residents and motorists traveling along Lenwood Road, I-15, and SR-58. It includes EV charging facilities that would primarily serve vehicles already using the adjacent roadways and freeways. This component, although not strictly local-serving in nature, does not generate additional trips that were not already occurring.

By offering dining, shopping, and EV charging opportunities, the project is expected to shorten vehicle trips for both local residents and passing motorists. This aligns with the County's objective to promote developments that contribute to reducing VMT. The retail component of the project is also less than 50,000 SF and therefore meets the Local Serving Retail screening criterion. Thus, the project's EV charging and retail (commercial) components qualify for an exemption from conducting a VMT assessment under the County Guidelines. Therefore, the Local Serving Project screening criteria is partially met for the EV charging station and commercial building.

Projects Generating Less Than 110 Daily Vehicle Trips

The County Guidelines state projects generating less than 110 daily vehicles trips are presumed to have a less-than-significant impact on VMT. As previously shown in Table 2, the project would generate 5,580 daily trips and therefore does not meet this screening criterion.

Transit Priority Area (TPA) Screening

The County Guidelines state that projects located within a TPA (i.e., within ½ mile of an existing "major transit stop" or an existing stop along a "high-quality transit corridor") may be presumed to have a less-than-significant impact absent substantial evidence to the contrary. Based on the Screening Tool results presented in Appendix A, the project site is not located within ½ mile of an existing major transit stop, or along a high-quality transit corridor. Therefore, the TPA screening criteria is not met.

Low VMT Area Screening

As noted in the County Guidelines, "development in efficient areas of the County will reduce VMT per person/employee and is beneficial to the region". The County Guidelines state that projects with VMT per person/employee lower than 4% below the existing VMT per person for the unincorporated County are considered to have a less-than-significant VMT impact.

It is general industry practice to perform a secondary evaluation to identify if a project is consistent with the existing land use within that traffic analysis zone or TAZ and use professional judgement that there is nothing unique about the project that would otherwise be mis-represented using data from the travel demand model.

Existing land use information was examined in the San Bernardino County Transportation Analysis Model (SBTAM) model for the project's TAZ 53962201 and was found to contain land use information that would be inconsistent with the project. Therefore, the project does not qualify for this screening criteria.

The project's EV charging station and commercial component was found to meet the Local Serving Project screening criteria. However, the remaining industrial component of the project does not meet eligible screening criteria. Therefore, a project-level VMT analysis has been prepared. Although the project's EV charging station and commercial component is not subject to further VMT analysis; these local serving land uses were conservatively included in the VMT analysis to ensure a full accounting of all project generated VMT.

5.2 VMT Approach

The County's Guidelines state that SBTAM is the preferred tool for conducting VMT analysis for land use projects in the County. San Bernardino County Transportation Authority's (SBCTA) most recent release of SBTAM is version is 3.2, released in June of 2024. SBTAM is a useful tool to estimate VMT as it considers interaction between different land uses based on socioeconomic data such as population, households, and employment. The calculation of VMT for land use projects is based on the total number of trips generated and the average trip length of each vehicle type.

For purposes of this assessment, VMT was estimated using the Production/Attraction method and Boundary method, as described below.

Production/Attraction Method

The Production/Attraction (PA) method for calculating VMT sums all weekday VMT generated by Home-Based Work (HBW) trips with at least one trip-end in the study area (i.e., Project Traffic Analysis Zone or TAZ) by trip purpose to/from their ultimate destination unless that destination is outside of the model boundary area. Productions are land use types that generate trips (residences), and attractions are land use types that attract trips (employment). The PA method allows Project VMT to be evaluated based on trip purpose, which is consistent with both the Office of Planning and Research (OPR) Technical Advisory and County Guidelines.

Boundary VMT Method

The boundary method is the sum of all weekday VMT on the roadway network within a designated boundary (i.e., County boundary or other designated geographic area). For this analysis, the boundary includes the unincorporated area of the County. The boundary method estimates VMT by multiplying vehicle trips on each roadway segment within the boundary by that segment's length. This is the only VMT method that captures the effect of cutthrough and/or displaced traffic. This approach consists of all trips, including those trips that do not begin or end in the designated boundary. In addition, since the Project is bordered by the City of Barstow, a 10-mile radius surrounding the Project has also been utilized to provide a more accurate and complete accounting of trips coming to and from the Project.

5.3 Impact Thresholds

As stated in the County Guidelines, the appropriate VMT metric for employment projects is VMT per employee. An employment project would result in a significant project-generated VMT impact if the following condition is met:

- Project-generated VMT per employee is greater than 4% below the existing VMT per employee for the unincorporated County.

Additionally, if the project is inconsistent with the regional transportation plan or sustainable community strategies (RTP/SCS) the project's cumulative effect on VMT would be considered significant if it results in the following condition:

- Cumulative year VMT per service population (population + employment) increases in the "with project" condition as compared to the no project condition.

The project proposes a General Plan amendment and re-zone. Therefore, the project is determined to be inconsistent with the current RTP/SCS and a cumulative analysis was also performed.

5.4 Analysis

Table 3 summarizes the County baseline VMT and project-generated VMT (based on the PA method) and provides a comparison to the County's impact threshold. As shown in the table, the project is estimated to generate VMT per employee below the County's adopted impact threshold and would result in a less-than-significant VMT impact.

Table 3. Project VMT Summary

Metric	County of San Bernardino Baseline	Project VMT
Employment	905,822	1,244[1]
VMT	20,824,465	15,961
VMT per Employee	22.9	12.8
County VMT Threshold (4% below)	22.0	
Potentially Significant?	*No*	

Source: SBTAM Model Results; Appendix A;
Notes: VMT = vehicle miles traveled

1. The employment estimate is conservative and is based on the SCAG Employment Density Study, Table II-B (The Natelson Company, Inc., SCAG Employment Density Report, October 21, 2001). The number of employees may be lower and VMT would likely lower along with employment.

Table 4 presents boundary VMT and boundary VMT per service population estimates for the cumulative conditions. The boundary VMT per service population with the project is found to remain unchanged for the Countywide boundary evaluation and decreases slightly for the 10-mile boundary evaluation, but does not exceed the County's adopted threshold. Impacts would be less than significant.

Table 4. Cumulative Boundary VMT

	County of San Bernardino Boundary		10-Mile Boundary	
Metric	No Project	With Project	No Project	With Project
Service Population	3,769,986	3,771,230	65,178	66,422
Boundary VMT	94,940,109	95,006,263	2,403,846	2,414,533
VMT per Service Population	25.2	25.2	36.8	36.4
Change in VMT per Service Population	0.0	—	-0.4	—

Source: SBTAM Model Results; Appendix A.
Note: VMT = vehicle miles traveled

6 Summary

Based on the results of the site access and VMT analysis presented in this TIS, the following summarizes the key findings of the analysis:

Project Trips

- The proposed project would generate 5,580 daily trips, 409 AM peak hour trips, and 447 PM peak hour trips. Accounting for truck traffic from warehousing and industrial land uses, the proposed project would generate to 7,466 daily PCEs, 521 AM peak hour PCEs, and 569 PM peak hour PCEs.

Pedestrian and Bicycle Facilities

- The project would include improvements along Lenwood Road, including frontage landscaping, pedestrian improvements, and bicycle improvements, as outlined in the San Bernardino County's Transportation and Mobility Element and the City's Circulation Element of the General Plan. Figure 10 presents the proposed cross section along these roads. All roadway improvements required as part of the project, whether located on or off site, would be designed and constructed in accordance with all applicable local, state, and federal roadway standards and practices. As the project continues through design review, detailed roadway improvements would continue to be developed in coordination with the county and city.

VMT Analysis

- The Project is estimated to generate VMT per employee below the County's adopted impact threshold and would result in a less-than-significant VMT impact.
- Additionally, the boundary VMT per service population in the with project scenario was found to remain unchanged for the Countywide boundary evaluation and decrease slightly for the 10-mile boundary evaluation, and do not exceed the County's adopted threshold. Impacts would be less than significant.

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Appendix A

EV Charging Truck Stop/Auto and Distribution Center Vehicle Miles Traveled Analysis

MEMORANDUM

URBAN | CROSSROADS

DATE: August 8, 2024
TO: Lisa Valdez, Dudek
FROM: Alex So, Urban Crossroads, Inc.
JOB NO: 15833-01 VMT

LENWOOD EV CHARGING STATION AND LOGISTICS FACILITY PROJECT VEHICLE MILES TRAVELED (VMT) ANALYSIS

Urban Crossroads, Inc. has completed the following Vehicle Miles Traveled (VMT) Analysis for the Lenwood EV Charging Station and Logistics Facility Project (**Project**) located on Lenwood Road between State Route (SR)-58 and Interstate (I)-15, approximately one mile west of SR-58 and four miles west of downtown Barstow in unincorporated County of San Bernardino (APNs 049-714-203, 049-714-204, 049-714-214, and 049-714-215).

PROJECT OVERVIEW

The Project site is undeveloped and surrounded by undeveloped lands with the exception of a single-family residential neighborhood, High Desert Estates, located adjacent to the southern Project boundary. The Project is proposing development on approximately 20 acres in the southern portion of the site with an electric vehicle charging hub for light duty/passenger vehicles and medium and heavy-duty trucks. The site will have a range of EV chargers to serve different charging needs (e.g., automobiles vs medium and heavy-duty trucks; slower chargers for overnight truck charging vs fast charging for trucks, etc.). The EV charging station will include a commercial building of up to 15,000 square feet (SF) that will contain ancillary uses (e.g., food, convenience services, amenities, etc.) for those using the station, as well as for local residents and nearby light industrial uses. The remaining site is proposed to include three warehouse buildings of 447,144 SF each, for a total of 1,341,432 SF of light industrial warehouse, logistic, and distribution facilities. A site plan for the Project is provided in Attachment A.

BACKGROUND

The California Environmental Quality Act (CEQA) requires all lead agencies to adopt VMT as the measure for identifying transportation impacts for land use projects. To comply with CEQA, the County of San Bernardino adopted analytical procedures, screening tools, and impact thresholds for VMT, which are documented in their adopted Transportation Impact Study Guidelines (**County Guidelines**) (1).

VMT SCREENING

Consistent with the screening thresholds identified in the County Guidelines, the San Bernardino County Transportation Authority (SBCTA) VMT Screening Tool (Screening Tool) was used to aid in the VMT screening process. The County Guidelines state that a project may have a less than significant impact and screen out of requiring a project-level VMT analysis if it meets at least one of the County's VMT screening criteria. The County's adopted VMT screening criteria are as follows:

- Local Serving Project Screening
- Projects Generating Less than 110 Daily Vehicle Trips
- Transit Priority Area (TPA) Screening
- Low VMT Area Screening

A land use project need only meet one of the above screening thresholds to result in a less than significant impact.

LOCAL SERVING PROJECT SCREENING

County Guidelines suggest Local-Serving Retail under 50,000 square feet and Local Essential Services such as K-12 schools, day care centers, and community institutions shortens non-discretionary trips by putting those goods and services closer to residents, resulting in an overall reduction in VMT.

The Project includes amenities that cater to both local residents and motorists traveling along Lenwood Road, I-15, and SR-58. It includes EV charging facilities that will primarily serve vehicles already using the adjacent freeways. This component, although not strictly local-serving in nature, does not generate additional trips that were not already occurring.

By offering dining, shopping, and EV charging opportunities, the Project is expected to shorten vehicle trips for both local residents and passing motorists. This aligns with the County's objective to promote developments that contribute to reducing VMT. Thus, the Project's EV charging and retail components qualify for exemption from a VMT assessment under the County Guidelines.

The Local Serving Project screening criteria is partially met for the EV charging and associated retail components.

PROJECTS GENERATING LESS THAN 110 DAILY VEHICLE TRIPS

County Guidelines state projects generating less than 110 daily vehicles trips are presumed to have a less than significant impact on VMT. The Project is forecast to generate 5,580 two-way trips per day above the 110 daily trip threshold (see Attachment B).

Projects Generating Less Than 110 Daily Vehicle Trips screening criteria is not met.

TRANSIT PRIORITY AREA (TPA) SCREENING

County Guidelines state that projects located within a TPA (i.e., within ½ mile of an existing "major transit stop"[1] or an existing stop along a "high-quality transit corridor"[2]) may be presumed to have a less than significant impact absent substantial evidence to the contrary. However, the presumption may not be appropriate if a project:

- Has a Floor Area Ratio (FAR) of less than 0.75;
- Includes more parking for use by residents, customers, or employees of the project than required by the jurisdiction (if the jurisdiction requires the project to supply parking);
- Is inconsistent with the applicable Sustainable Communities Strategy (as determined by the lead agency, with input from the Metropolitan Planning Organization); or
- Replaces affordable residential units with a smaller number of moderate- or high-income residential units.

Based on the Screening Tool results presented in Attachment C, the Project site is not located within ½ mile of an existing major transit stop, or along a high-quality transit corridor.

TPA screening criteria is not met.

LOW VMT AREA SCREENING

As noted in the County Guidelines, "development in efficient areas of the County will reduce VMT per person/employee and is beneficial to the region.[3]" County Guidelines state that projects with VMT per person/employee lower than 4% below the existing VMT per person for the unincorporated County are considered to have a less than significant VMT impact.

It is general industry practice to perform a secondary evaluation to identify if the project is consistent with the existing land use within that TAZ and use professional judgement that there is nothing unique about the project that would otherwise be mis-represented utilizing the data from the travel demand model.

Existing land use information was examined in the San Bernardino County Transportation Analysis Model (SBTAM) model for the Project's traffic analysis zone (TAZ) 53962201 and was found to contain land use information that would be inconsistent with the proposed Project. Therefore, the Project does not qualify for this screening criteria.

Low VMT Area screening criteria is not met.

The Project's EV charging and retail component was found to meet the Local Serving Project screening criteria. However, the remaining industrial component of the Project was not found to meet eligible screening criteria and consistent with the County Guidelines, a project-level VMT analysis has been prepared. Although the Project's EV charging and retail component is not

[1] Pub. Resources Code, § 21064.3 ("'Major transit stop' means a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.").
[2] Pub. Resources Code, § 21155 ("For purposes of this section, a high-quality transit corridor means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.").
[3] County Guidelines; Page 19

subject to further VMT analysis; these local serving land uses were conservatively included in the VMT analysis to ensure a full accounting of project generated VMT.

VMT ANALYSIS

TRAFFIC MODELING METHODOLOGY

County Guidelines state that SBTAM is the preferred tool for conducting VMT analysis for land use projects in the County of San Bernardino. San Bernardino County Transportation Authority's (SBCTA) most recent release of SBTAM is version is 3.2, released in June of 2024. SBTAM is a useful tool to estimate VMT as it considers interaction between different land uses based on socio-economic data such as population, households, and employment. The calculation of VMT for land use projects is based on the total number of trips generated and the average trip length of each vehicle type.

VMT ANALYSIS METHODOLOGY

For purposes of this assessment, VMT was estimated using the Production/Attraction method and Boundary method. For the Production/Attraction method, VMT is presented as Home-Based-Work (HBW) VMT per employee, while the Boundary method presents VMT as total VMT and total VMT per Service Population (VMT/SP).

PRODUCTION/ATTRACTION METHOD

The Production/Attraction (PA) method for calculating VMT sums all weekday VMT generated by HBW trips with at least one trip-end in the study area (i.e., Project Traffic Analysis Zone or TAZ) by trip purpose to/from their ultimate destination unless that destination is outside of the model boundary area. Productions are land use types that generate trips (residences), and attractions are land use types that attract trips (employment). The PA method allows Project VMT to be evaluated based on trip purpose, which is consistent with both the Office of Planning and Research (OPR) Technical Advisory and County Guidelines.

BOUNDARY VMT METHOD

The boundary method is the sum of all weekday VMT on the roadway network within a designated boundary (i.e., County boundary or other designated geographic area). The boundary method estimates VMT by multiplying vehicle trips on each roadway segment within the boundary by that segment's length. This is the only VMT method that captures the effect of cut-through and/or displaced traffic. This approach consists of all trips, including those trips that do not begin or end in the designated boundary. In addition, since the Project is bordered by the City of Barstow, a 10-mile radius surrounding the Project has also been utilized to provide a more accurate and complete accounting of trips coming to and from the Project.

VMT METRIC AND SIGNIFICANCE THRESHOLD

As stated in County Guidelines, the appropriate VMT metric for employment projects is VMT per employee[4]. An employment project would result in a significant project-generated VMT impact if the following condition is met:

- Project-generated VMT per employee is greater than 4% below the existing VMT per employee for the unincorporated County.

Additionally, if the Project is inconsistent with the regional transportation plan or sustainable community strategies (RTP/SCS) the project's cumulative effect on VMT would be considered significant if it results in the following condition:

- Cumulative year VMT per service population (population + employment) increases in the with project condition as compared to the no project condition.

It is our understanding that the Project proposes a general plan amendment and change of zone. Therefore, the Project is determined to not be consistent with the current RTP/SCS and a cumulative analysis will also be performed.

COUNTY OF SAN BERNARDINO VMT PER EMPLOYEE

The County of San Bernardino existing VMT per employee has been calculated using SBTAM. Table 1 presents the resulting County of San Bernardino existing VMT per employee of 22.9 and 4% below existing VMT per employee of 22.0.

TABLE 1: COUNTY OF SAN BERNARDINO BASELINE VMT PER EMPLOYEE

	County of San Bernardino
Employee	905,822
VMT	20,824,465
VMT per Employee	22.9
4% Below Existing	22.0

PROJECT VMT ESTIMATES

To estimate project-generated VMT, standard land use information such as building square footage must first be converted into a SBTAM-compatible dataset. The SBTAM model utilizes socio-economic data (SED) (e.g., employment) for the purposes of vehicle trip estimation. Table 2 summarizes the SED inputs used to represent the Project. Project SED data was then added into the Project TAZ to obtain Project-generated VMT.

[4] County Guidelines; Page 20

TABLE 2: EMPLOYMENT ESTIMATES

Land Use	Quantity (SF)	Employment Density Factor[1]	Employees
Warehouse	1,341,432	1 employee per 1,195 SF	1,123
Retail/Fast Food	15,000	1 employee per 124 SF	121
Total	**-**	**-**	**1,244**

[1] SCAG Employment Density Study; Table II-B

Project-generated VMT and a comparison to the County's impact threshold is presented in Table 3. The Project is estimated to generate VMT per employee below the County's adopted impact threshold.

TABLE 3: PROJECT VMT PER EMPLOYEE

	Baseline
Employment	1,244
VMT	15,961
VMT/Employee	12.8
County Threshold	22.0
Potentially Significant?	No

Table 4 presents boundary VMT and boundary VMT per service population estimates for cumulative conditions. The boundary VMT per service population in the with project scenario is found to remain unchanged for the Countywide boundary evaluation and decrease slightly for the 10-mile boundary evaluation, and do not exceed the County's adopted threshold.

TABLE 4: CUMULATIVE BOUNDARY VMT

	County Boundary		10-Mile Boundary	
Cumulative	No Project	With Project	No Project	With Project
Service Population[1]	3,769,986	3,771,230	65,178	66,422
Boundary VMT	94,940,109	95,006,263	2,403,846	2,414,533
VMT per Service Population	25.2	25.2	36.8	36.4
Change in VMT per Service Population	0.0		-0.4	

[1] Service population refers to population and employment

CONCLUSION

Based on the results of this analysis, the following findings are made:

- The Project was evaluated against screening criteria as outlined in the County Guidelines. The Project's EV charging and retail component were found to meet the Local Serving Project screening criteria. However, the industrial component was not found to meet screening criteria and a VMT analysis was performed.
- Project-generated VMT estimates were calculated from SBTAM and compared to the County's adopted impact threshold of 4% below existing Countywide VMT per employee.

Project-generated VMT per employee was found to be below the County's impact threshold.

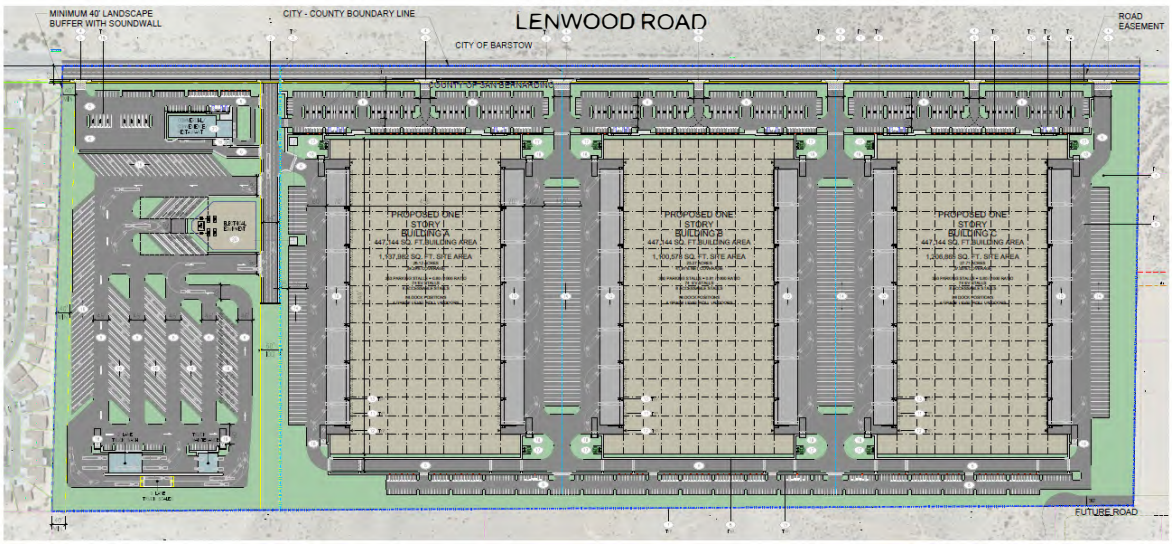
- The Project's cumulative effect on VMT was found to be unchanged or below the County's adopted impact threshold of no net increase in VMT per service population for with project conditions.

If you have any questions, please contact me directly at aso@urbanxroads.com.

REFERENCES

1. **San Bernardino County.** *Transportation Impact Study Guidelines.* July 2019.

ATTACHMENT A
PROJECT SITE PLAN


MINIMUM 40' LANDSCAPE BUFFER WITH SOUNDWALL
CITY - COUNTY BOUNDARY LINE
LENWOOD ROAD
CITY OF BARSTOW
ROAD EASEMENT
PROPOSED ONE STORY BUILDING A
PROPOSED ONE STORY BUILDING B
PROPOSED ONE STORY BUILDING C
FUTURE ROAD

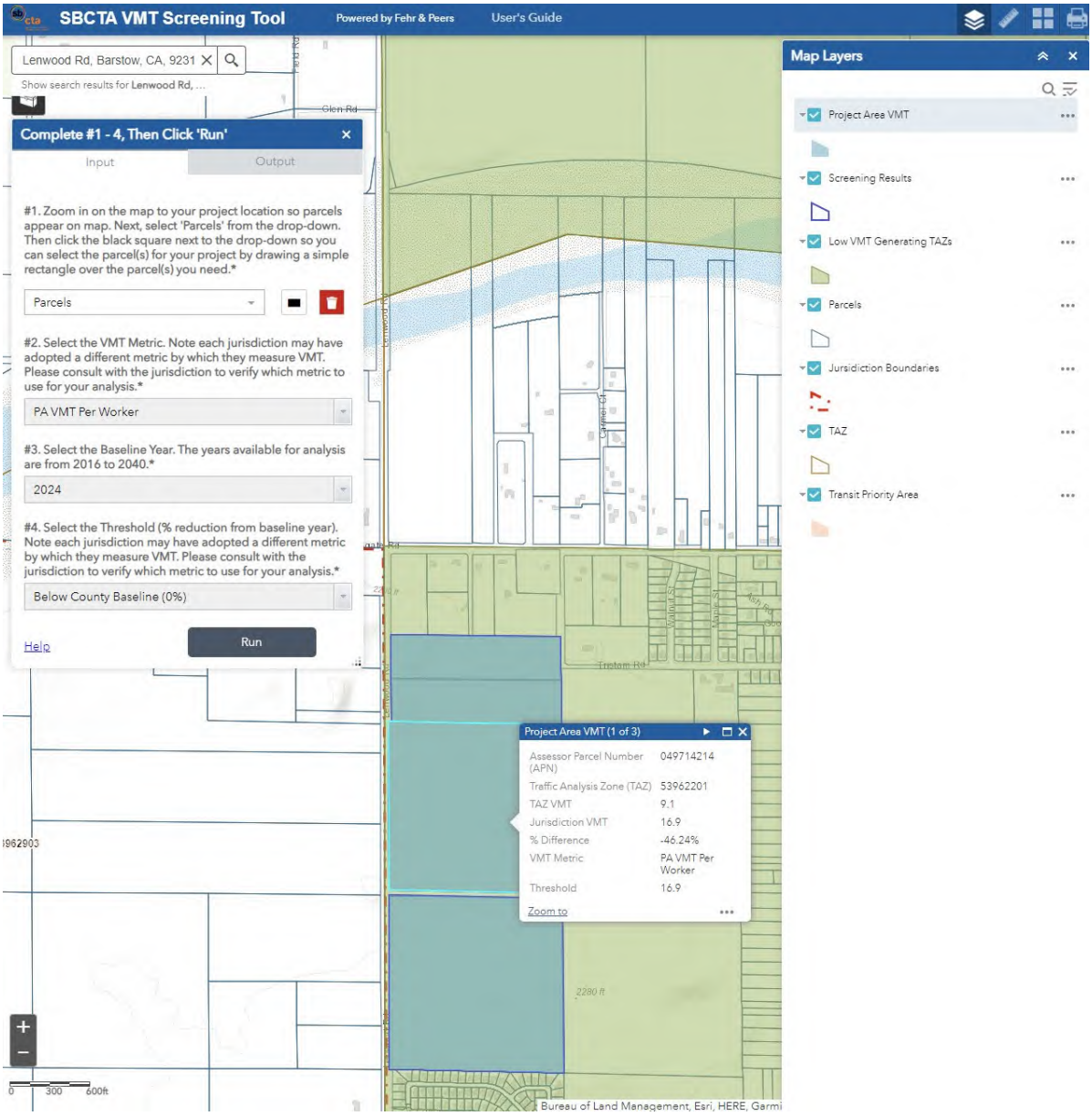
ATTACHMENT B

PROJECT TRIP GENERATION SUMMARY

TABLE B-1: PROJECT TRIP GENERATION SUMMARY

Land Use	ITE Code	Size/Units	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
TRIP RATES [1]									
Strip Retail Plaza	822	TSF	54.45	1.42	0.94	2.36	3.30	3.30	6.59
Fast food with drive-thru	934	TSF	467.48	22.75	21.86	44.61	17.18	15.85	33.03
EV Charging Station	N/A	see assumptions below[6]							
High-Cube Fulfillment Center Warehouse (non-sort)	155	TSF	1.81	0.12	0.03	0.15	0.06	0.10	0.16
TRIP GENERATION									
Strip Retail[2]	822	12 TSF	653	17	11	28	40	40	79
Fast food with drive-thru[2]	934	3	1,402	68	66	134	52	48	99
EV Charging- Autos	N/A	8 fast chargers	439	13	13	26	15	15	30
EV Charging- Trucks[6]	N/A	30+15 fast chargers	658	10	10	20	12	12	24
Warehouse	155	1341.432 TSF	2,428	163	38	201	84	131	215
		Subtotal (Non-PCE)	5,580	271	138	409	202	245	447
TRIP GENERATION BY VEHICLE MIX (Non-PCE)									
Vehicle Mix- Commercial									
Passenger Vehicles	100.0%		2,056	85	77	162	91	87	178
Vehicle Mix- Auto Chargers									
Passenger Vehicles	100.0%		439	13	13	26	15	15	30
Vehicle Mix- EV Truck Chargers [3]									
2-Axle Trucks	40.0%		263	4	4	8	5	5	10
3-Axle Trucks	10.0%		66	1	1	2	1	1	2
4+-Axle Trucks	50.0%		329	5	5	10	6	6	12
EV Truck Chargers Total (Non-PCE)			658	10	10	20	12	12	24
Vehicle Mix- Warehouse [4]									
Passenger Vehicles	72.5%		1,760	118	28	146	61	95	156
2-Axle Trucks	4.6%		112	7	2	9	4	6	10
3-Axle Trucks	5.7%		138	9	2	11	5	7	12
4+-Axle Trucks	17.2%		418	28	7	35	14	23	37
Warehouse Total (Non-PCE)			*2,428*	*162*	*39*	*201*	*84*	*131*	*215*
Total Site									
		Total Passenger Vehicles	4,255	217	118	334	167	197	364
		Total Trucks	1,325	55	20	75	35	48	83
Total Trip Generation (Non-PCE)			5,580	271	138	409	202	245	447
TRIP GENERATION BY VEHICLE MIX (PCE)									
Commercial Total (PCE)			2,056	85	77	162	91	87	178
Auto Chargers Total (PCE)			439	13	13	26	15	15	30
EV Truck Chargers (PCE, by Vehicle Classification)									
Vehicle Mix	PCE[5]								
Passenger Vehicles	n/a								
2-Axle Trucks	1.5		395	6	6	12	7	7	14
3-Axle Trucks	2.0		132	2	2	4	2	2	4
4+-Axle Trucks	3.0		986	15	15	30	18	18	36
		Total Passenger Vehicles	0	0	0	0	0	0	0
		Total Trucks	1,513	23	23	46	27	27	54
		EV Charging Total (PCE)	1,513	23	23	46	27	27	54

ATTACHMENT C
SBCTA SCREENING TOOL RESULTS


SBCTA VMT Screening Tool
Powered by Fehr & Peers
User's Guide
Lenwood Rd, Barstow, CA, 9231
Show search results for Lenwood Rd, ...
Complete #1 - 4, Then Click 'Run'
Input
Output
#1. Zoom in on the map to your project location so parcels appear on map. Next, select 'Parcels' from the drop-down. Then click the black square next to the drop-down so you can select the parcel(s) for your project by drawing a simple rectangle over the parcel(s) you need.*
Parcels
#2. Select the VMT Metric. Note each jurisdiction may have adopted a different metric by which they measure VMT. Please consult with the jurisdiction to verify which metric to use for your analysis.*
PA VMT Per Worker
#3. Select the Baseline Year. The years available for analysis are from 2016 to 2040.*
2024
#4. Select the Threshold (% reduction from baseline year). Note each jurisdiction may have adopted a different metric by which they measure VMT. Please consult with the jurisdiction to verify which metric to use for your analysis.*
Below County Baseline (0%)
Help
Run
Map Layers
Project Area VMT
Screening Results
Low VMT Generating TAZs
Parcels
Jurisdiction Boundaries
TAZ
Transit Priority Area
Project Area VMT (1 of 3)
Assessor Parcel Number (APN) 049714214
Traffic Analysis Zone (TAZ) 53962201
TAZ VMT 9.1
Jurisdiction VMT 16.9
% Difference -46.24%
VMT Metric PA VMT Per Worker
Threshold 16.9
Zoom to
Tristam Rd
2280 ft
0 300 600ft
Bureau of Land Management, Esri, HERE, Garmi

Appendix K
Water Supply Assessment

GOLDEN STATE WATER COMPANY
BARSTOW SERVICE AREA

Water Supply Assessment and Verification
Lenwood EV Truck-Auto Stop and Distribution Center

December 7, 2023

VERIFICATION

This Water Supply Assessment and Verification has been prepared by Golden State Water Company and its representatives as of the date set forth below. The undersigned hereby represents that he has the authority on behalf of Golden State Water Company to execute and make effective this Water Supply Assessment and Verification.

By: Patrick Kubiak Digitally signed by Patrick Kubiak Date: 2024.02.06 14:25:55 -08'00'

Date

Patrick M. Kubiak
Vice President Asset Management
Golden State Water Company

Water Supply Assessment

Lenwood EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project, San Bernardino County, California

NOVEMBER 2023

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Printed on 30% post-consumer recycled material.

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APPENDICES

A Model Water Efficient Landscape Ordinance Calculations

Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AF	acre-feet
AFY	acre-feet per year
APN	Assessor's Parcel Number
BAP	Base Annual Production
CEQA	California Environmental Quality Act
CWC	California Water Code
DWR	California Department of Water Resources
FPA	free production allowance
GSP	Groundwater Sustainability Plan
PSY	Production Safe Yield
PWS	public water system
SB	Senate Bill
SGMA	Sustainable Groundwater Management Act
USGS	United States Geological Survey
Watermaster	Mojave Basin Area Watermaster
WSA	Water Supply Assessment

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1 Introduction

1.1 Purpose of Document

Senate Bill (SB) 610 was passed on January 1, 2002, amending the California Water Code (CWC) to require detailed analysis of water supply availability for certain types of development projects. The primary purpose of SB 610 is to improve the linkage between water and land use planning by ensuring greater communication between water providers and local planning agencies, as well as ensuring that land use decisions for certain large development projects are fully informed as to whether a sufficient water supply is available to meet project demands. SB 610 requires preparation of a Water Supply Assessment (WSA) for a project that is subject to the California Environmental Quality Act (CEQA) and meets certain requirements. SB 610 is codified in CWC Division 6, Part 2.10 (Sections 10910–10915).

The Lenwood EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project (Project) has been determined to be subject to CEQA by the County of San Bernardino (County) acting as lead agency. The Project satisfies the statutory definition of a "project" for the purpose of determining SB 610 applicability because it is considered an industrial development occupying more than 40 acres of land and has more than 650,000 square feet of floor area, per CWC Section 10912(a)(5). The lead agency will make an independent determination as to whether there is adequate water supply for the proposed Project, having considered the entire administrative record. In compliance with SB 610, this WSA examines the availability of the identified water supply under normal-year, single-dry-year, and multiple-dry-year conditions over a 20-year projection, accounting for the projected water demand of the Project plus other existing and planned future uses of the identified water supply.

1.2 Project Location and Description

The proposed Project is located on Lenwood Road between CA 58 and I-15, in the census-designated place of Lenwood, San Bernardino County, California. The Project falls within Section 8 of Township 9 North, and Range 2 West of the Barstow, California USGS 7.5-minute Quadrangle and encompasses APNs 049-714-203, 049-714-204, 049-714-214, and 049-714-215 (Figure 1).

The Project proponent proposes to develop the approximately 100-acre Project area into (1) an EV charging/low carbon fuels hub to serve light duty/passenger vehicles and medium and heavy-duty trucks, and (2) a state-of-the-art concrete tilt-up light industrial, warehouse/distribution facility of 1,341,432 square feet in three buildings. The proposed Project site zoning designation is "IC – Community Industrial."

The proposed Project would also contain associated site improvements, including landscaping, parking, required utility facilities and upgrades, a drainage basin, and a buffer (e.g., landscaping, wall) at the project's southern boundary. Access to and from the Project area would be via Lenwood Road. The preliminary site master plan is shown on Figure 2.

EV Charging/Low Carbon Fuels Hub

The proposed approximately 20-acre EV charging/low carbon fuels hub would provide EV charging for light duty/passenger vehicles and medium and heavy-duty trucks and would also make available low carbon alternative

fuels - renewable diesel, renewable compressed natural gas (R-CNG), and hydrogen - all of which are included in and financially supported by the California Air Resources Board's Low Carbon Fuel Standard (LCFS) program.

The proposed EV charging hub is anticipated to have up to 20 mega-watt (MW) peak electrical power capacity. The site would provide a range of EV chargers to serve different charging needs (e.g., automobiles vs medium and heavy-duty trucks; slower chargers for overnight truck charging vs: MCS charging for trucks, etc.).

The EV charging/low carbon fuels hub would also include a commercial building of up to 15,000 square feet that would contain ancillary uses (e.g., food, convenience services, showers for travelers, other amenities, etc.) for those utilizing the hub, as well as for local residents and nearby light industrial uses.

Light Industrial Warehouse/Distribution

The remainder of the site, approximately 80-acres, would include a proposed warehouse/distribution facility to meet the demand for a highly functional, efficient logistics buildings that meet contemporary industry standards. The facility would consist of three buildings, each comprising 447,144 square feet, with a total square footage of 1,341,432.

1.3 Water Supply Assessment Applicability

SB 610 amended California Water Code (CWC) Sections 10910 and 10912 to create a direct relationship between water supply and land use. SB 610 establishes the legal framework for assessing the sufficiency of water supply for new development which qualify as a "Project". Per California Water Code Section 10912(a), a "Project" means any of the following:

- Proposed residential development of more than 500 dwelling units
- Proposed shopping center or business establishment employing more than 1,000 persons, or having more than 500,000 square-feet of floor space
- Proposed commercial office building employing more than 1,000 persons or having more than 250,000 square-feet of floor space
- Proposed hotel or motel or both, having more than 500 rooms
- Proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square-feet of floor area
- Proposed mixed-use project that includes one or more of the above components
- Proposed project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project. (Water Code Section 10912(a).)

The Project qualifies as a "Project" per California Water Code Section 10912(a) because it is a proposed industrial facility that occupies more than 40 acres of land and has more than 650,000 square-feet of floor space. A WSA has also been prepared to assist in responding to the CEQA Guidelines Utilities and Service System impact questions. The CWC, as amended by SB 610, requires that a WSA address the following questions:

- Is there a public water system that will service the project?

- Is there a current Urban Water Management Plan] (UWMP) that accounts for the project demand?
- Is groundwater a component of the supplies for the project?
- Are there sufficient supplies to serve the project over the next 20 years?

The primary question to be answered in a WSA per the requirements of SB 610 is: *Will the total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection meet the projected water demand of the proposed project, in addition to existing and planned future uses of the identified water supplies, including agricultural and manufacturing uses?*

The response to this question also informs and assists the lead agency in responding to the CEQA Guidelines Utilities and Service Systems question: *Would the Project have sufficient water supplies available to serve the Project and reasonably foreseeable future development during normal, dry, and multiple dry years?*

1.3.1 Identification of a Public Water System

Section 10912 of the CWC defines a "public water system" as a system that has 3,000 or more service connections and provides piped water to the public for human consumption. Under SB 610, WSA reports must be prepared and furnished to local governments by the water utility serving that community for inclusion in any environmental documentation for projects meeting the specified requirements under Section 10912 (a) of the CWC and subject to CEQA. According to CWC Section 10910 (g)(1), "[…] the governing body of each public water system, or the city or county if either is required to comply with this act […] shall approve the assessment prepared pursuant to this section at a regular or special meeting." According to SB 610, the public water system serving the project area is required to prepare the WSA report.

The Project is within the Barstow service area of the Golden State Water Company and the Mojave Water Agency (DWR 2023a). Golden State Water Company (referred to herein as GSWC) is an investor-owned public utility company that supplies water to more than one million people in over 80 communities throughout California. The GSWC – Barstow area (referred to herein as GSWCB) currently serves 8,800 customers in Barstow and has been the community's water service provider since 1929 (GSWC 2021). GSWCB meets the definition of a Public Water System.

1.3.2 Urban Water Management Plan Coverage

Urban Water Management Plans (UWMPs) are prepared by California's urban water suppliers to support long-term resource planning and ensure adequate water supplies. UWMPs must be updated and submitted to the California Department of Water Resources (DWR) every 5 years for review and approval. The DWR has identified the UWMP as a foundational document in the preparation of a WSA, noting that a thorough UWMP can provide the required information to fulfill the standards set forth by SB 610. Every urban water supplier that either delivers more than 3,000 acre-feet per year (AFY) of water annually or serves more than 3,000 connections is required to assess the reliability of its water sources over a 20-year period under normal-year, dry-year, and multiple dry-year scenarios; these are the same requirements of a WSA, as specified by SB 610. A WSA may also rely on additional water supply data beyond the information in the UWMP.

An UWMP was created and submitted to DWR to satisfy 2020 requirements by GSWCB. The 2020 UWMP for GSWCB contains detailed information about the urban water supplier's water supply and demand estimates. The 2020 UWMP is an update to the GSWCB's 2015 UWMP and presents new data and analysis as required by DWR and the California Water Code since 2015 (GSWC 2021). The 2020 UWMP is a comprehensive water planning document that describes existing and future supply reliability, forecasts future water uses, presents demand management progress, and identifies local and regional efforts to meet projected water use. The water demand for the Project is not accounted for in the 2020 UWMP for GSWCB.

The UWMP projects future industrial water use in 5-year increments based on the projected number of customer connections for each land use category connections and the average unit demand factors for each land use category between 2016 and 2020 (GSWC 2020). The UWMP reported that the unit demand factor for industrial land uses between 2016 and 2020 was 10.22 acre-feet per connection. Based on the projected number of connections, industrial land use is projected to increase from 98 acre-feet per year (AFY) in 2025 to 105 AFY in 2045.

1.3.3 Groundwater as a Component of Project Water Supply

GSWCB has historically relied upon groundwater supplies as its primary source of supply to meet demands. GSWCB pumps groundwater from the Upper Mojave River Valley subbasin that is part of the groundwater basins covering the broader Mojave region. More specifically, GSWCB pumps groundwater from the Centro Subarea (Figure 3) which is a subarea of the Mojave Basin Area as defined in the Mojave Basin Adjudication. GSWBC has also incorporated water supplies derived from MVA's water management activities as part of its groundwater development and use actions (GWSCB 2021).

1.3.4 Sufficiency of Supplies Over the Next 20 Years

As described in Section 2, Project Water Demand; Section 4, Water Resources Inventory; and Section 5, Reliability of Water Supplies, there is adequate water available to supply the Project. Although the Project would increase the existing GSWCB water demand, GSWCB projects to have sufficient water supplies under normal-year, single-dry-year, and multiple-dry-year conditions over a 20-year projection.

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2 Project Water Demand

Construction of the Project is anticipated to commence in 2025 (if the Project is approved). Construction activities would include site clearing and grading, trenching for utilities, building construction, paving, and landscaping. Construction water demand was not provided and is estimated to be insignificant. During construction, it is unknown how water will be delivered to the Project.

During operation, water would be supplied to the Project through a water main. The estimated water demand during the life of the Project includes irrigation demand, and demands are summarized in Table 1. Due to the unknown plans and water demands of future tenants, water demand was estimated using a variety of sources. The warehouse/distribution facility, totaling 1,341,432 SF, was estimated to have a water demand of 3.4 gallons/SF per year (US EIA 2023). The truck wash station was estimated to have a water demand of 480,000 gallons per year, assuming each wash uses 20 gallons and there are 2,000 washes per month (B. Vail, personal communication, September 20, 2023). The commercial building of 15,000 SF was estimated to use 304 gallons/SF per year (CalEEMod 2023).

The irrigation use demands were calculated using DWR's Model Water Efficient Landscape Ordinance worksheet (DWR 2023b) and assumed that the landscaped area of the Project sites would be low water use plantings requiring drip irrigation. The irrigation calculations are included as Appendix A and are summarized in Table 1 along with the operational demands.

Table 1. Water Usage Estimate

Project Component	Size (SF)	Gallons per SF/year	Gallons per year	Acre feet per year
Warehouse/Distribution Facilities	1,341,432	3.4	4,560,869	14
Commercial Building	15,000	304	4,553,010	14
Truck Wash	N/A	N/A	480,000	1.5
Landscaped Areas	627,041	15	9,565,573	29.4
			Total	58.9

Source: B. Vail, pers. comm., September 20, 2023, CalEEMod, US EIA 2023; DWR 2023
Notes: sf=square foot; 1 acre-foot = 325,851 gallons.

The total estimated Project operation and irrigation water usage demands can be rounded up to 59 AFY.

3 Water Resources Plans and Programs

The following provides a description of water resources plans and programs applicable to the Project.

3.1 Sustainable Groundwater Management Act

The Sustainable Groundwater Management Act (SGMA) is a package of three bills (Assembly Bill 1739, SB 1168, and SB 1319) and provides local agencies with a framework for managing groundwater basins in a sustainable manner. The SGMA establishes minimum standards for sustainable groundwater management, roles and responsibilities for local agencies that manage groundwater resources, priorities, and timelines to achieve sustainable groundwater management within 20 years of adoption of a Groundwater Sustainability Plan (GSP). The SGMA also requires all high and medium priority basins be sustainably managed. The Lower Mojave River Valley Basin and the Middle Mojave River Valley basin are very low priority[2] basins in DWR's 2019 SGMA Basin Prioritization and thus are exempt from the requirements of developing a Groundwater Sustainability Plan (DWR, 2019). The Project site is within the Mojave Basin – Centro Subarea, which is an adjudicated area and is managed by a court-appointed water master, as discussed below in Section 3.2.

3.2 Mojave Basin Area Adjudication

The Mojave Watershed was adjudicated in 1996 in an effort to preserve the limited resources typical of arid regions by regulating groundwater allocations. The adjudication was initiated by a 1990 lawsuit filed by the City of Barstow and Southern California Water Company, claiming excessive water use in the Upper Mojave River Basin, thus reducing the amount of surface and groundwater available to the central Basin. Additional cross-complaints were filed, and several parties joined the lawsuit. For more than 18 months, water producers of all types who were reliant upon the Mojave River Basin commenced negotiations which eventually produced the "Final Judgment" on how the groundwater supply could be fairly distributed (Water Education Foundation, 2022).

Mojave Water Agency is the current Court-appointed Watermaster for the Mojave Basin Area Judgment. The Watermaster's main responsibilities are to monitor and verify water production, collect required assessments, conduct studies, and prepare an annual report. The adjudication is primarily concerned with maintaining groundwater levels to help maintain a specified level of groundwater pumping in the area (Mojave Water Agency, 2022). The Watermaster does not have a specific obligation towards maintaining water quality; however, it is noted that continued pumping in depleted areas may result in long-term local negative water quality impacts such as migration of lesser quality water. The Watermaster is currently responsible for reporting the following types of data in the Mojave Basin Area:

- Verification of reported groundwater production
- Mojave River flows
- Precipitation Page 6-4 Salt and Nutrient Management Plan, Mojave Water Agency
- Wastewater discharges

[2] Under the 2019 Basin Prioritization, all adjudicated basins were automatically assigned a very low priority because they are excluded from SGMA. A "very low" priority in this case does not suggest that a basin does not have problems with respect to groundwater.

- Subsurface inflow
- State Water Project and wastewater imports
- Groundwater levels
- Ungauged surface water inflows

3.3 Urban Water Management Planning Act

The Urban Water Management Planning Act (CWC Sections 10610–10657) requires urban water suppliers to prepare a UWMP every 5 years and to submit it to the DWR, the California State Library, and any city or county within which the supplier provides water supplies. All urban water suppliers, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet (AF) annually are required to prepare a UWMP (CWC Section 10617).

The Urban Water Management Planning Act was enacted in 1983. Over the years, it has been amended in response to water resource challenges and planning imperatives confronting California. A significant amendment was made in 2009 as a result of the governor's call for a statewide 20% reduction in urban water use by 2020, referred to as "20x2020," the Water Conservation Act of 2009, and "SB X7-7." This amendment required urban retail water suppliers to establish water use targets for 2015 and 2020 that would result in statewide water savings of 20% by 2020. Beginning in 2016, urban retail water suppliers were required to comply with the water conservation requirements in SB X7-7 in order to be eligible for state water grants or loans.

A subsequent substantial revision to the Urban Water Management Planning Act was made in 2018 through a pair of bills (Assembly Bill 1668 and SB 606), described below in Section 3.4, Water Use Efficiency Standards. These changes include, among other things, additional requirements for Water Shortage Contingency Plans, expansion of dry-year supply reliability assessments to a 5-year drought period, establishment of annual drought risk assessment procedures and reporting, and new conservation targets referred to as "annual water use objectives," which will require retailers to continue to reduce water use beyond the 2020 SB X7-7 targets. The Urban Water Management Planning Act contains numerous additional requirements that a UWMP must satisfy.

3.4 Water Use Efficiency Standards

The Water Conservation legislation of 2018 (SB 606 and Assembly Bill 1668)— referred to as "Making Water Conservation a California Way of Life" or the "2018 Water Conservation Legislation"— established a new foundation for long-term improvements in urban water supplier conservation and drought planning to adapt to climate change and the longer, more intense droughts in California. Together, Assembly Bill 1668 and SB 606 lay out a new long-term water conservation framework for California. This new framework is far-reaching for both the urban and agricultural sectors of California and represents a major shift in focus. Programs and initiatives are organized around four primary goals:

1. Use water more wisely
2. Eliminate water waste
3. Strengthen local drought resilience
4. Improve agricultural water use efficiency and drought planning

Collectively, this legislation provides a road map for all Californians to work together to ensure that we will have enough water now and, in the years, ahead. One of the major outcomes of the legislation is the adoption of long-term standards for the efficient use of water and performance measures for commercial, industrial, and institutional water use on or before June 30, 2022. The bill establishes a standard for indoor water use of 55 gallons per capita daily to be reached by 2025, 52.5 gallons per capita daily beginning in 2025, decreasing to 50 gallons per capita daily beginning in 2030, or an alternative to this standard as determined jointly by DWR and State Water Resources Control Board in accordance with necessary studies and investigations.

On July 8, 2021, the Governor signed Executive Order N-10-21 which asks Californians to voluntarily reduce water use by 15% from 2020 levels. The Executive Order was in direct response to California experiencing the second driest year on record and the ongoing drought.

On January 4, 2022, the State Water Resources Control Board adopted an emergency regulation that prohibits certain wasteful water use practices statewide and encourages Californians to monitor their water use more closely while building habits to use water wisely.

3.5 Water Shortage Contingency Plan

GSWCB includes a water shortage contingency plan within their UWMP that presents how the water supplier will respond in the event of an actual water shortage contingency. Beginning in July 2022, GSWCB is required to submit an Annual Water Supply and Demand Assessment examining the GSWCB service area's anticipated water reliability for the current year and one additional dry year to determine what, if any, water shortages stages may be triggered during the required period. The Annual Assessment will be used by GSWCB decision-makers to prepare for and initiate implementation of any needed response actions, as well as inform customers, the general public, interested parties, and local, regional, and state governments entities to prepare for such required actions, if necessary (GSWCB 2021).

4 Water Resources Inventory

The following provides a description of the potential water sources available to the Project.

4.1 Local Surface Water

Golden State Water Company does not currently use surface water to meet its water demands (GSWC 2021). The nearest major river to the Project site is the Mojave River, which is approximately 1-mile north of the Project site (Figure 3).

4.2 Groundwater

Groundwater is the primary water supply source for GSWCB. GSWCB pumps groundwater from the Upper Mojave River Valley Basin, and more specifically, from the Centro Subarea which is a subarea of the Mojave Basin Area as defined in the Mojave Basin adjudication (GSWC 2021). The Project overlies two basins designated by DWR (Figure 3), the Lower Mojave River Valley Basin (LMRV Basin; 6-040) and the Middle Mojave River Valley Basin (MMRVB; 6-041). The Project overlies the Centro subarea of the Mojave Basin Area. The Mojave Basin Area is subdivided into five smaller areas (Oeste, Alto, Este, Centro, and Baja) and the Project would be located within the Centro Subarea (Figure 3). The Project lies within the Mojave River Groundwater Basin as defined by USGS (USGS 2023), which is commonly referred to as the Mojave Basin Area.

4.2.1 Lower Mojave River Valley Basin

The Project site is located within the LMRV Basin as mapped by the DWR and is exempt from the requirements of developing a Groundwater Sustainability Plan (GSP) as it is designated as a very-low priority basin in an adjudicated area.

4.2.1.1 Hydrogeologic Setting

The LMRV Basin is bounded on the north from the contact between Quaternary sedimentary deposits and the Tertiary rocks aged Waterman and Calico Mountains. The southern boundary is the contact between the unconsolidated sediments and the consolidated basement rocks of Daggett Ridge, the Newberry Mountains, and the Rodman Mountains. The LMRV Basin is bounded to the southeast by the Pisgah fault and to the west by the Camp Rock-Harper Lake fault zone. The northeastern LMRV Basin boundary is arbitrary divide between the Coyote Lake Vally Basin and Caves Canyon Basin (DWR, 2004).

4.2.1.2 Groundwater Supply Description

Golden State Water Company has historically pumped groundwater directly from the Mojave Basin Area to meet water demands within its service area. Groundwater movement occurs between each of the subareas of the Mojave Basin Area with the primary form of recharge being predominantly from infiltration from the Mojave River (Golden State Water Company, 2021). The Mojave Basin Area Watermaster monitors groundwater levels in two separate areas within the Centro subarea: (1) the Harper Lake Area located generally northwest of the Mojave River and (2) Hodge

and Lenwood Road located along the Mojave River. The Project is in the southeastern portion of the Centro Subarea, approximately 1 mile south of the Mojave River (Figure 3).

The Mojave Basin Area Watermaster (2023) notes that water levels in Centro subarea have shown general stability with seasonal variability, with recovery occurring during wet years and declines during dry years. Water levels in the Centro subarea in wells located near the Mojave River exhibit limited recharge over the past ten years due to increased pumping. Water levels in wells located in the Harper Lake Area have shown slow recovery due to slowed pumping. Limited recharge has been observed within the water levels observed near the Mojave River over the past 10 years due to pumping.

Water supply conditions for the past 10 years have been dry. During the 2021-2022 Water Year the precipitation at Lake arrowhead amounted to 46.64 inches, which is about 112 percent of the 60-year Base Period average of 41.5 inches. The Mojave Basin Area Watermaster has determined that continuation of dry conditions from below normal precipitation will result in further water level declines (Mojave Basin Area Watermaster, 2023).

According to the Sustainable Groundwater Management Act (SGMA) Basin Prioritization Dashboard, DWR has designated the LMRV Basin as very low priority, and the Basin has been adjudicated to determine the water rights of the various producers (DWR, 2023). Because the Project is within an adjudicated area, it is not subject to the requirements of California's SGMA, but instead is subject to groundwater pumping allocations under the court adjudication set up to mitigate long-term overdraft, to keep subareas in balance, and to meet biological resource mitigation obligations (Mojave Basin Area Watermaster 2023). Final Judgment was entered in 1996 adopting the physical solution set forth in the Judgment. The purpose of the Judgment was to create incentives to conserve local water, guarantee that downstream producers will not be adversely affected by upstream producers, and assess producers to obtain funding for the purchase of imported water. To carry out the Mojave Basin Judgment and sustainability manage and mitigate the observed water level declines, the Mojave Water Agency has assigned Base Annual Production amounts to each producer using 10-acre feet per year or more.

4.2.1.3 Groundwater Quality

Raw water is not utilized currently within the GSWC Barstow System. The Golden State Water Company Barstow well system utilizes sodium hypochlorite injected at the wellheads as a disinfectant for water entering the distribution for supplied potable water (GSWC 2021). Thus, this system is considered a potable water system.

Within the LMRV Basin, sodium bicarbonate character groundwater is primarily present. Sodium-calcium sulfate character is observed in the Daggett and Newberry springs. Sodium chloride, sodium-calcium chloride, and sodium chloride-sulfate occur east of Troy Lake. Fluoride concentrations are elevated around Newberry Springs, with elevated boron and fluoride concentrations near Camp Cady. Numerous leaking underground storage tank sites are in the Barstow area, introducing various contaminants to groundwater such as benzene, toluene, ethylbenzene, xylene, and methyl-tertiary-butyl-ether. A superfund site is present in the area adjacent to Barstow at the Nebo and Yermo Marine Corps; the site has impacted groundwater with trichloroethane (DWR, 2004).

4.2.2 Middle Mojave River Valley Basin

The Project site is located within the MMRV Basin as mapped by the DWR and is exempt from the requirements of developing a GSP as it is designated as a very-low priority basin in an adjudicated area.

4.2.2.1 Hydrogeologic Setting

The MMRV Basin is bounded on the north from both surface and subsurface divides, including the Helendale fault, a contact between Quaternary alluvium and the Kramer Hill and Iron Mountain basement rocks. The southern boundary is marked by an approximate east-west line from the Helendale Basement rock to the Shadow Mountains. The Camp Rock-Harper Lake fault Zone bounds the basin to the east, and to the west the boundary is marked by surficial drainage divide and the outcrops of the basement rock of the Shadow Mountains. (DWR, 2003; Figure 4).

4.2.2.2 Groundwater Supply Description

Groundwater Supply for the Project area is discussed above in section 4.2.1.2.

According to the Sustainable Groundwater Management Act (SGMA) Basin Prioritization Dashboard, DWR has designated the MMRV Basin as very low priority and the Basin has been adjudicated to determine the water rights of the various producers (DWR, 2023). Because the Project is within an adjudicated area, it is not subject to the requirements of California's SGMA, but instead is subject to groundwater pumping allocations under the court adjudication set up to mitigate long-term overdraft, to keep subareas in balance, and to meet biological resource mitigation obligations (Mojave Basin Area Watermaster 2023). Final Judgment was entered in 1996 adopting the physical solution set forth in the Judgment. The purpose of the Judgment was to create incentives to conserve local water, guarantee that downstream producers will not be adversely affected by upstream producers, and assess producers to obtain funding for the purchase of imported water. To carry out the Mojave Basin Judgment and sustainability manage and mitigate the observed water level declines, the Mojave Water Agency has assigned Base Annual Production amounts to each producer using 10-acre feet per year or more.

4.2.2.4 Groundwater Quality

Within the MMRV Basin, sodium bicarbonate character groundwater is present near the Mojave River channel. Sodium sulfate-chloride is present near Helendale, sodium calcium sulfate is present near Lenwood, and sodium chloride-sulfate groundwater is present east of the Shadow Mountains. The Lenwood Landfill has leached volatile organic compounds, salts and nitrates to local groundwater within the lower portion of the basin. Effluent irrigation from the Barstow Wastewater reclamation facility could also have an impact on groundwater quality, although naturally occurring nitrates and salts are present within the basin (DWR, 2004).

4.2.3 On-Site Well Inventory and Groundwater Levels

Figure 5 shows wells in the vicinity of the Project site according to the National Water Information System Mapper (USGS 2022), SGMA Data Viewer (DWR 2023), and Groundwater Ambient Monitoring and Assessment Program (SWRCB 2023). According to the SGMA Data Viewer, there are numerous groundwater wells surrounding the Project site and two wells on the Project site. The two wells shown on the northern boundary of the Project site are USGS wells (Site Numbers 345327117065301 and 345327117065401) and are categorized as inactive (USGS 2023).

The closest well to the Project site within the Lower Mojave River Valley Basin that has had regular (yearly or twice-yearly) monitoring of groundwater levels is 0.25 miles north of the Project site (Site Number 345339117065001). This well indicates that groundwater levels north of the Project area have shown an overall decline between 1987 and 2023, ranging between a high of 2,145 feet above mean sea level (amsl) in 1995 to a low of 2,093 feet amsl

in 2022 (Figure 6). Another well approximately 5 miles southwest of the Project site shows that although the most recent data point in May 2023 is the highest water level measurement since 2010 (2,113 feet amsl), the groundwater level had been steadily trending downward since 2010 (Figure 7).

4.3 Imported Water and Wastewater/Recycled Water

GSWC does currently have any imported water connection infrastructure, however imported supplies from the Mojave Water Agency are used for local groundwater recharge. GSWCB does have to pay a replacement water fee to the Mojave Basin Area Watermaster for any supply it uses in excess of its pumping limits. Base annual production limits are discussed in detail in Section 5. The Watermaster also manages the transfer of surplus water between producers in the Basin. Surplus and deficits between the producers are calculated annually.

GSWCB is developing recycled water supplies for potential future use but had not perfected its use as of 2020 (GWSCB 2021).

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5 Reliability of Water Supplies

The Mojave Basin Judgment assigned the Base Annual Production (BAP) rights to each producer using 10 AF or more, based on historical production from 1986 to 1990. Parties to the Judgment are assigned a variable Free Production Allowance (FPA), which is a percentage of the BAP set annually by the Court for each subarea based on the recommendation of the Watermaster. The BAP is reduced or "ramped-down" over time until FPA comes within 5 percent of the Production Safe Yield (PSY) as defined by the Judgment. The FPA for the Centro Subarea was 70 percent of the BAP for water year 2020-2021. GSWCB derives its water supply from the Centro subarea. GSWCB's BAP is 14,407 AFY[1]. Any producer that pumps more than their FPA must purchase Replenishment Water from the Watermaster equal to the amount of production in excess of their total available FPA or transfer unused FPA from another party within their subarea (GSWC 2021).

The Centro Subarea remains in an overdraft condition and GSWCB anticipates that its FPA will continue to ramp down by 5% per year over the next five years. Table 2 shows the projected Mojave Adjudication FPA for GSWCB through 2025 for a normal year, a single dry year, and a multi-year drought. A "normal year" is represented by a year with normal hydrologic conditions. A "single dry year" and "multi-year drought" is defined as a condition that may require reduced water deliveries to customers caused by regulatory decrees. GSWCB assumes that because of the extremely arid conditions in the Mojave Desert even in wet years, the hydrology does not exert a strong influence on outdoor water use (GSWC 2021).

Table 2. Projected Mojave Adjudication FPA for GSWCB through 2025 (AFY)

Year		FPA	FPA Percent
Normal		10,085	70
Single Dry Year		10,085	70
Multi-Year Drought	2021 (Year 1)	10,085	70
	2022 (Year 2)	9,365	65
	2023 (Year 3)	8,644	60
	2024 (Year 4)	7,924	55
	2025 (Year 5)	7,204	50

Source: GSWCB, 2021.
Notes: FPA = Free Production Allowance

Although the PSY of the Mojave Basin appears to be declining in the Centro Subarea, the FPA is predicted to stabilize after 2025. Table 3 shows the GSWCB's projected FPA in a Normal Year, Single Dry Year, and Five Consecutive Dry Years from 2025 through 2045 at 50% (GSWC 2021).

Table 3. Projected Mojave Adjudication FPA for GSWCB through 2045 (AFY)

FPA at 50%	2025	2030	2040	2045
Normal	7,204	7,204	7,204	7,204

[1] Twenty-Sixth Annual Report of the Mojave Basin Area Watermaster for Water Year 2018-2019, May 1, 2020 at Appendix H

Table 3. Projected Mojave Adjudication FPA for GSWCB through 2045 (AFY)

FPA at 50%		2025	2030	2040	2045
Single Dry Year		7,204	7,204	7,204	7,204
Multi-Year Drought	Year 1	7,204	7,204	7,204	7,204
	Year 2	7,204	7,204	7,204	7,204
	Year 3	7,204	7,204	7,204	7,204
	Year 4	7,204	7,204	7,204	7,204
	Year 5	7,204	7,204	7,204	7,204

Source: GSWCB, 2021.
Notes: FPA = Free Production Allowance

GSWCB has taken actions to protect its water supplies against hydrological and regulatory variability by storing water assets for future use through carryover provision of the Mojave Basin Adjudication. GSWCB's 2020-2021 carryover supply total was 11,526 AF, and it will continue to have carryover water supplies through 2045 (Table 4).

Table 4. Projected Carryover Water Supplies Through 2045 (AFY)

FPA at 50%		2025	2030	2040	2045
Normal		7,924	7,204	7,204	7,204
Single Dry Year		7,924	7,204	7,204	7,204
Multi-Year Drought	Year 1	7,924	7,204	7,204	7,204
	Year 2	7,204	7,204	7,204	7,204
	Year 3	7,204	7,204	7,204	7,204
	Year 4	7,204	7,204	7,204	7,204
	Year 5	7,204	7,204	7,204	7,204

Source: GSWCB, 2021.
Notes: FPA = Free Production Allowance

The Project is in the census-designated place of Lenwood, San Bernardino County, California and is within the service area of GSWCB and therefore would receive water from GSWCB. Water demand and supply numbers for GSWCB without the Project are shown in Table 5 and Table 6, respectively (GSWCB 2021).

Table 5. Current and Projected Water Demand (without Project) for Normal Year

	Actual (AF)	Projected (AF)				
Water Sources	2020	2025	2030	2035	2040	2045
Demand						
Single Family	2,020	1,954	1,988	2,021	2,056	2,091
Multi Family	847	833	847	862	877	891
Commercial/ Institutional	1,750	1,854	1,885	1,917	1,950	1,983
Industrial	92	98	100	102	103	105
Landscape	79	66	68	69	70	71

Table 5. Current and Projected Water Demand (without Project) for Normal Year

Water Sources	Actual (AF)	Projected (AF)				
	2020	2025	2030	2035	2040	2045
Demand						
Other	0	0	0	0	0	0
Water Losses	933	630	640	651	662	674
Total	5,721	5,435	5,528	5,622	5,718	5,815

Source: GSWCB, 2021.
Notes: AF = acre-feet

Table 6. Total Water Supplies Available in GSWCB Through 2045 (without Project) for Normal Year

Total Supply		Projected (AF)				
		2025	2030	2035	2040	2045
Normal		15,128	14,408	14,408	14,408	14,408
Single Dry Year		15,128	14,408	14,408	14,408	14,408
Multi-Year Drought	Year 1	15,128	14,408	14,408	14,408	14,408
	Year 2	14,408	14,408	14,408	14,408	14,408
	Year 3	14,408	14,408	14,408	14,408	14,408
	Year 4	14,408	14,408	14,408	14,408	14,408
	Year 5	14,408	14,408	14,408	14,408	14,408

Source: GSWCB, 2021.
Notes: AF = acre-feet
"Normal year" is represented by a year with normal hydrologic conditions.
"Single dry year" and "Multi-Year Drought" is defined as a condition that may require reduced water deliveries to customers caused by regulatory decrees. GSWCB assumes that because of the extremely arid conditions in the Mojave Desert even in wet years, the hydrology does not exert a strong influence on outdoor water use.

The Project is expected to use 59 AFY of water, as explained in Section 2. Table 7 shows the GSWCB supply, demand, and surplus of water factoring in the Project water demand through 2045 for normal years, single dry years, and a multi-year drought. The demand is the total projected demand from Table 5, plus the estimated 59 AFY of the Project.

Table 7. Water Supply and Demand Comparison Through 2045 (with Project)

Total Supply		Projected (AF)				
		2025	2030	2035	2040	2045
Normal	Supply	15,128	14,408	14,408	14,408	14,408
	Demand	5,494	5,587	5,681	5,777	5,874
	Difference	9,634	8,821	8,727	8,631	8,534
Single Dry Year	Supply	15,128	14,408	14,408	14,408	14,408
	Demand	5,494	5,587	5,681	5,777	5,874

Table 7. Water Supply and Demand Comparison Through 2045 (with Project)

Total Supply			Projected (AF)				
			2025	2030	2035	2040	2045
		Difference	9,634	8,821	8,727	8,631	8,534
Multi-Year Drought	Year 1	Supply	15,128	14,408	14,408	14,408	14,408
		Demand	5,494	5,587	5,681	5,777	5,874
		Difference	9,634	8,821	8,727	8,631	8,534
	Year 2	Supply	14,408	14,408	14,408	14,408	14,408
		Demand	5,494	5,587	5,681	5,777	5,874
		Difference	8,914	8,821	8,727	8,631	8,534
	Year 3	Supply	14,408	14,408	14,408	14,408	14,408
		Demand	5,494	5,587	5,681	5,777	5,874
		Difference	8,914	8,821	8,727	8,631	8,534
	Year 4	Supply	14,408	14,408	14,408	14,408	14,408
		Demand	5,494	5,587	5,681	5,777	5,874
		Difference	8,914	8,821	8,727	8,631	8,534
	Year 5	Supply	14,408	14,408	14,408	14,408	14,408
		Demand	5,494	5,587	5,681	5,777	5,874
		Difference	5,494	5,587	5,681	5,777	5,874

Source: GSWCB, 2021.
Notes: AF = acre-feet
"Normal year" is represented by a year with normal hydrologic conditions.
"Single dry year" and "Multi-Year Drought" is defined as a condition that may require reduced water deliveries to customers caused by regulatory decrees. GSWCB assumes that because of the extremely arid conditions in the Mojave Desert even in wet years, the hydrology does not exert a strong influence on outdoor water use.
"Demand" is discussed in Section 2.

6 Conclusion

Golden State Water Company–Barstow relies on water pumped from the Centro Subarea of the Mojave River Basin which has shown water levels with general stability with seasonal variability, recovering during wet years and declining during dry years. Due to increased pumping and unsustainable yields, the Mojave River Basin was Adjudicated in 1996 to control water levels and manage the future for the growing basin population. GSWCB has reliable supplies to meet its retail customer demands in normal, single dry years, and five consecutive dry year conditions through 2045 even with planned FPA reductions. Because GSWCB extracts only as much groundwater as is necessary to meet customer demands, it is anticipated that supplies and demands are congruent across all scenarios (GSWC 2021). Over the long term, GSWCB's water supply portfolio should be adequate to meet its potential long-term growth objectives.

While the GSWCB service area is expected to experience population growth over the next 25 years, the 2020 UWMP has also considered increased development as a result. Furthermore, GSWCB has submitted a plan to study recycled water use in the Mojave Water Agency Integrated Regional Water Management Plan. As seen in the tables presented in Section 5, GSWCB expects to meet projected demand estimates for normal, dry, and multiple dry water years. Given this information, the EVC Truck Stop Project water demand estimated to be 59 AFY would likely not adversely affect the water supply for GSWCB for the duration of the Project life.

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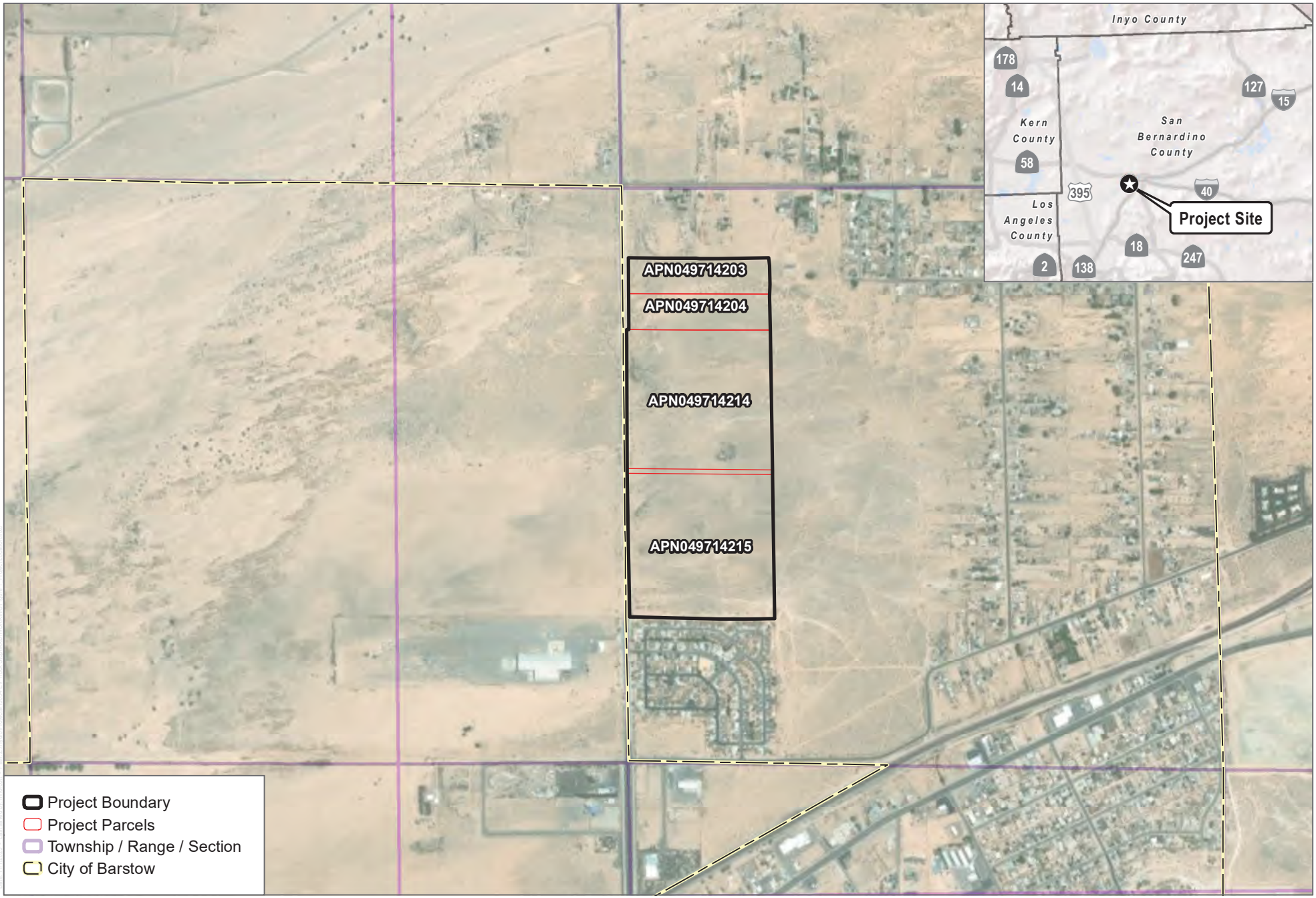

SOURCE: ESRI; USGS; County of San Bernardino

DUDEK

0 1,000 2,000 Feet

FIGURE 1

Project Location

Lenwood EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project - Water Supply Assessment

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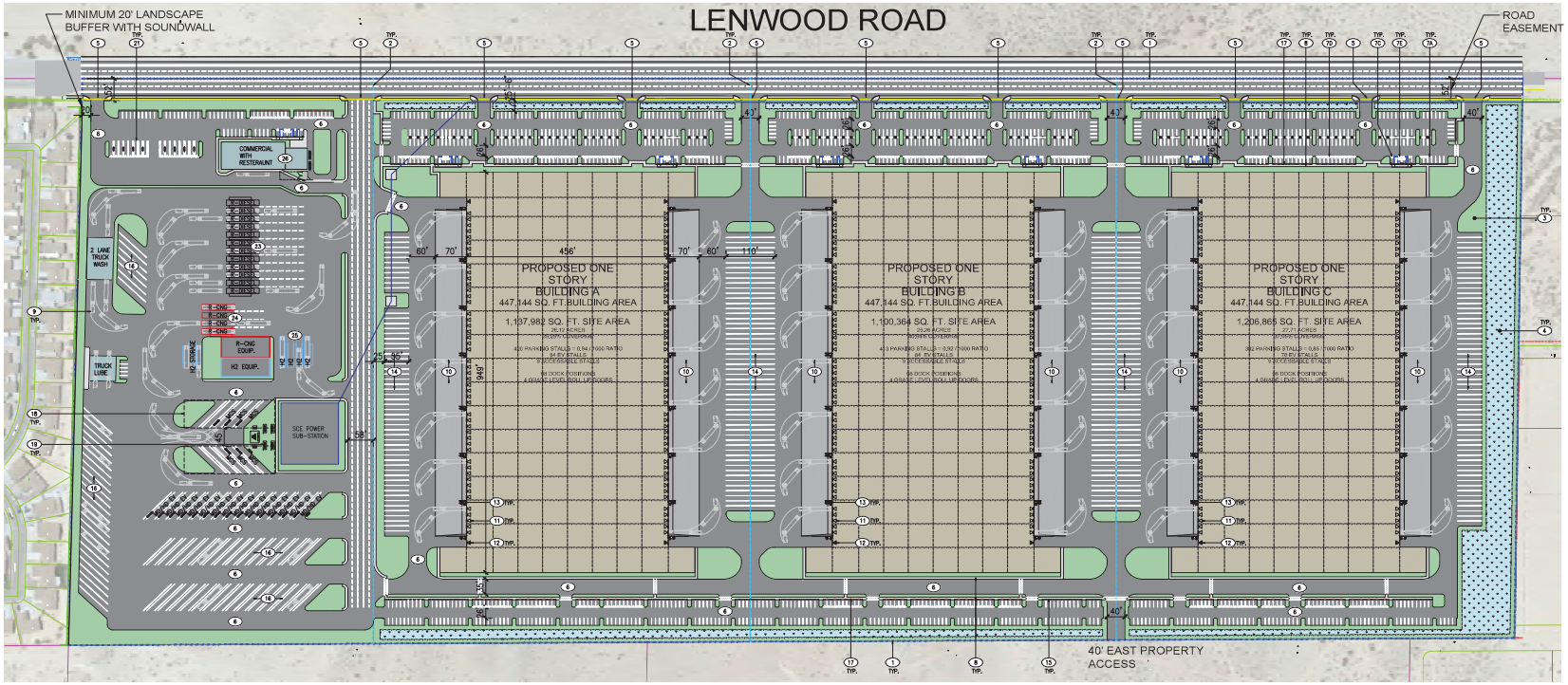

SITE INFORMATION

APN: 0467-194-03, 0467-194-04, 0467-194-74, 0467-194-75
ZONING: CURRENT: IL - INDUSTRIAL LIMITED
PROPOSED: IL - COMMUNITY INDUSTRIAL
TOTAL GROSS SITE AREA: 4,347,837 SQ.FT. / 99.81 ACRES
NET SITE AREA: 4,216,377 SQ.FT. / 96.79 ACRES
BUILDING AREA: 1,341,432 SQ.FT. OF INDUSTRIAL, AND UP TO 15,000 SQ.F OF COMMERCIAL USES
SITE COVERAGE: 30.87%
CONSTRUCTION TYPE: II-B OR II-A
BUILDING HEIGHT: 50'-0" TO LADER SIDE OF ROOF DECK, MAXIMUM OVERALL ALLOWABLE 75'-0"
NUMBER OF STORIES: 1
PARKING: 1,080 STALLS TOTAL

LOT COVERAGE (PLUSES AREA BUILD ANALYSIS)

LAND USE ZONING	PROPOSED LOT COVERAGE	LOT SIZE	MAXIMUM LOT COVERAGE ALLOWED	TOTAL LOT COVERAGE
PROPOSED: I - COMMUNITY INDUSTRIAL	3,070,486 SQ. FT.	4,216,377 SQ.FT.	85%	3,070,486 / 4,216,377 = 0.7283

LAND USE ZONING	FLOOR AREA RATIO (MAXIMUM COVERAGE)	TOTAL BUILDING AREA	TOTAL LOT AREA	TOTAL FAR
PROPOSED: I - COMMUNITY INDUSTRIAL	.45 : 1	1,356,432 SQ.FT.	4,216,377 SQ.FT.	1,356,432 / 4,216,377 = .32

LANDSCAPING STANDARDS APPLICABLE

LAND USE ZONING	SUBUAL LANDSCAPE AREA	
	AS A % OF LOT AREA	AREA (IN SQ. FT.)
FREIGHT/CARTY INDUSTRIAL / WAREHOUSE	15 %	1,800 SQ. FT.

TOTAL LANDSCAPED AREA = ± 627,041 SQ. FT. = 15%
TOTAL RETENTION AREA = ± 163,227 SQ. FT.

EV CHARGING / LOW CARBON FUELS HUB

TOTAL GROSS SITE AREA: 902,004 SQ.FT. = 20.72 ACRES
NET SITE AREA: 876,151 SQ.FT. = 20.01 ACRES
HD / MD EV CHARGING AREA: 411,869 SQ.FT. = 9.45 ACRES
LOW CARBON FUELS AREA: 464,281 SQ.FT. = 10.67 ACRES
BUILDING AREA: UP TO 15,000 SQ.F, COMMERCIAL USES
SITE COVERAGE: 1.23%
CONSTRUCTION TYPE: II-B OR II-A
BUILDING HEIGHT: ± 45'-0"
NUMBER OF STORIES: 1
PARKING: 90 STALLS TOTAL
TRUCK PARKING: 84 STALLS TOTAL

PARKING STANDARDS (KAPA COUNTY ZONING CODE TABLE 18.11.030)

- GENERAL RETAIL: 1/250 SF.
  15,000 SQ. @ 1/250 SQ. = 60 TOTAL STALLS
- ** REQUIRED: 60 STALLS
- ** PROVIDED: 90 STALLS
- STANDARD STALLS: 90 (9' X 19' WITH A 24' OVERHANG)
- COMPACT STALLS: 0 (8' X 16' WITH A 24' OVERHANG) 0% OF TOTAL STALLS

ACCESSIBLE DESIGNATED PARKING STALLS (REQUIRED AND PROVIDED)

PER 2022 CBC TABLE 11B-208.2: 76 TO 100 STALLS, 4 STALLS REQUIRED TO BE ACCESSIBLE
STALLS EVERY 6 OR FRACTION OF 6K, AT LEAST ONE SHALL BE VAN PARKING.
5 ADA STALLS (INCLUDING 1 VAN ACCESSIBLE STALL) PROVIDED.

PER 2019 CALIFORNIA GREEN BUILDING CODE TABLE 5.106.5.3.1: 76 TO 100 STALLS, 17 REQUIRED
EV CAPABLE SPACES, OF THESE 4 ARE REQUIRED TO BE PROVIDED WITH EVSE.
22 EVSTALLS PROVIDED ALL TO HAVE EVSE

PER CBC TABLE 11B-228.3.2: 1 TO 25 EVCS STALLS: 1 VAN ACCESSIBLE EVCS, 1 STANDARD ACCESSIBLE EVCS AND 0 AMBULATORY EVCS ARE REQUIRED.
OF THE 22 EVCS REQUIRED, 1 VAN EVCS, 1 STANDARD ADA EVCS, AND 0 AMBULATORY EVCS ARE PROVIDED AS SHOWN.

TYPICAL WAREHOUSE BUILDING (BUILDING A)

TOTAL GROSS SITE AREA: 1,137,982 SQ.FT. = 26.12 ACRES
NET SITE AREA: 1,103,039 SQ.FT. = 25.33 ACRES
BUILDING AREA: 447,144 SQ.F.
SITE COVERAGE: 40.53%
CONSTRUCTION TYPE: II-B OR II-A
BUILDING HEIGHT: 50'-0" TO UNDER SIDE OF ROOF DECK, MINIMUM OVERALL ALLOWABLE 75'-0"
CLEAR HEIGHT: 36'-0"
NUMBER OF STORIES: 1
PARKING: 420 STALLS TOTAL
TRAILER PARKING: 110 STALLS TOTAL

PARKING STANDARDS (SAN BERNARDINO COUNTY ZONING CODE TABLE 83-13.030)

- WAREHOUSING: 1/1,000 SQ.FT. FOR THE FIRST 40,000 SQ.F. (40,000 SQ.F. FOR ALL WAREHOUSE EXCESS OVER 40,000 SQ.F.)
  (40,000 SQ.F. @ 1/1,000 SQ.F. = 40 STALLS + (973,395 SQ.F @ 1/4,000 SQ.F. = 244 STALLS) = 284 TOTAL STALLS
- POTENTIAL OFFICE SPACE @ 10.2% OF BUILDING AREA = 1/250 SQ.F.
  (73,770 SQ.F. @ 1/250 = 296 TOTAL STALLS
- ** REQUIRED: 420 STALLS
- ** PROVIDED: 420 STALLS
- STANDARD STALLS: 420 (9' X 19' WITH A 24' OVERHANG)
- COMPACT STALLS: 0 (8' X 16' WITH A 24' OVERHANG) 0% OF TOTAL STALLS

ACCESSIBLE DESIGNATED PARKING STALLS (REQUIRED AND PROVIDED)

PER 2022 CBC TABLE 11B-208.2: 401 TO 500 STALLS, 9 STALLS REQUIRED TO BE ACCESSIBLE
STALLS EVERY 6 OR FRACTION OF 6K, AT LEAST ONE SHALL BE VAN PARKING.
9 ADA STALLS (INCLUDING 2 VAN ACCESSIBLE STALLS) PROVIDED.

PER 2019 CALIFORNIA GREEN BUILDING CODE TABLE 5.106.5.3.1: OVER 201 STALLS, 25% OF TOTAL REQUIRED TO BE EV CAPABLE SPACES, 420 X 0.25 = 84, OF THESE, 25% ARE TO BE PROVIDED WITH EVSE, 84 X 0.25 = 21, AND EV STALLS PROVIDED AND 21 TO HAVE EVSE INSTALLED

PER CBC TABLE 11B-228.3.2: 76 TO 100 EVCS STALLS: 1 VAN ACCESSIBLE EVCS, 1 STANDARD ACCESSIBLE EVCS AND 0 AMBULATORY EVCS ARE REQUIRED.
OF THE 22 EVCS REQUIRED, 1 VAN EVCS, 1 STANDARD ADA EVCS, AND 0 AMBULATORY EVCS ARE PROVIDED AS SHOWN.

KEYNOTES:

1. EXISTING PROPERTY LINES
2. PROPOSED NEW PARCEL LINES
3. TYPICAL LANDSCAPE AREAS
4. TYPICAL BIO-RETENTION AREA
5. PROPOSED LOCATION OF NEW SITE ACCESS DRIVE CURB CUT
6. TYPICAL DRIVE ISLE
7. TYPICAL PARKING:
   - A. STANDARD STALLS: 9' X 19' OR 9' X 17' WITH 2' PARKING OVERHANG.
   - B. COMPACT STALLS: 8' X 16' OR 8' X 14' WITH 2' PARKING OVERHANG (35% MAX).
   - C. ACCESSIBLE PARKING STALLS: 9' X 18' MIN. WITH 2' PARKING OVERHANG WITH 5' OR 8' WIDE LOADING ZONE
   - D. ELECTRIC VEHICLE CHARGING SPACES (STALLS LABELED "ELECTRIC VEHICLE CHARGING"), TO FOLLOW REQUIREMENTS PER CBSC 5.106.5.3.1.
   - E. ACCESSIBLE ELECTRIC VEHICLE CHARGING STALLS, VAN, STANDARD, AND AMBULATORY.
8. NEW CONCRETE PEDESTRIAN WALKS. ASSUME ALL SIDEWALKS TO BE ACCESSIBLE PATH OF TRAVEL. SLOPE NOT TO EXCEED 1:20 (5%) IN DIRECTION OF TRAVEL. CROSS SLOPE NOT TO EXCEED 1:50 (2%) WHERE PARKING OVERHANG OCCURS, INCREASE WIDTH OF SIDEWALK TO 6'-0" MIN.
9. SEMI TRACTOR TRAILER TEMPLATE SHOWN FOR REFERENCE ONLY
10. 60' DEPRESSED CONCRETE TRUCK DOCK WITH CURB AND GUARDRAIL AT EACH SIDE
11. LOADING DOCK ROLL UP DOOR, TYPICAL
12. GRADE LEVEL ROLL UP DOOR, TYPICAL
13. PREFABRICATED PAINTED STEEL DOCK STAIR AND BOLLARDS
14. TRAILER PARKING STALLS WITH CONCRETE DOLLY PADS
15. DASHED LINE INDICATES 2'-0" PARKING OVERHANG
16. SEMI TRUCK AND TRAILER PARKING STALLS
17. POTENTIAL ELECTRICAL VEHICLE SERVICE EQUIPMENT (EVSE)
18. POTENTIAL SOLAR CANOPY – MAY BE PLACED ABOVE ANY PARKING SPACE ON SITE
19. POTENTIAL SOLAR STORAGE BATTERIES
20. OMITTED
21. LIGHT DUTY PULL THROUGH CHARGING
22. MEDIUM DUTY / HEAVY DUTY TRUCK CHARGING
23. RENEWABLE DIESEL FUELING
24. RENEWABLE COMPRESSED NATURAL GAS FUELING
25. HYDROGEN FUELING
26. UP TO 15,000 SQ. FT. COMMERCIAL BUILDING WITH DRIVE THRU WINDOW

SITE LEGEND:

- BUILDING AREA
- SITE CONCRETE
- COMMERCIAL AREA
- STORM WATER RETENTION AREA
- ASPHALT AREA
- LANDSCAPE AREA
- EXISTING PROPERTY LINE
- NEW PARCEL LINE
- 9' X 10' OVERHEAD DOCK LEVEL DOOR
- 12' X 14' OVERHEAD GRADE LEVEL DOOR

0 50' 100' 200' TRUE NORTH

PRELIMINARY SITE MASTER PLAN
SCALE: 1" = 100'-0" (1)

RMW
RMW Architecture Interiors
1718 Third Street Suite 101 Sacramento California 95811
Office 916 449-1400
rmw.com

OWNER / DEVELOPER:

PRELIMINARY DESIGN DRAWINGS FOR:

EV CHARGING / LOW CARBON FUELS HUB AND INDUSTRIAL BUILDINGS

SAN BERNARDINO, CALIFORNIA

approved for the owner by :
approved for the architect by :

issue :	description :	date :
A	ISSUED FOR DESIGN REVIEW	09-09-2023

GENERAL CONTRACTOR:

drawn by : TLG plot date : 09-09-2023
checked by : JDL
stamp

scale : AS NOTED
project number : 2234046.00

PRELIMINARY MASTER SITE PLAN

sheet no. : A01.0

FIGURE 2
Site Plan

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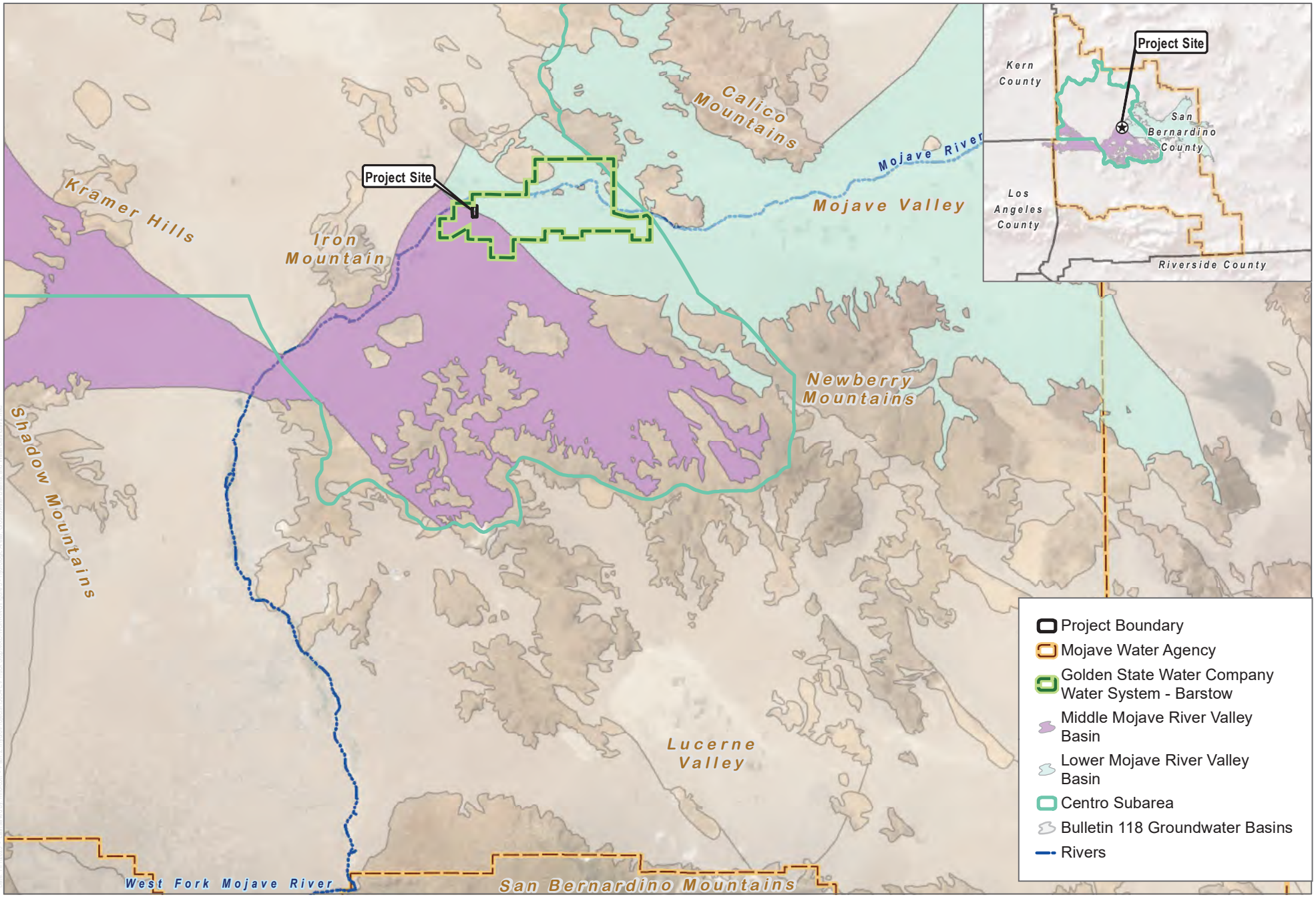

SOURCE: ESRI; DWR; NHD

DUDEK

0 3.5 7 Miles

FIGURE 3

Hydrologic Areas, Groundwater Basins, and Water Districts

Lenwood EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project - Water Supply Assessment

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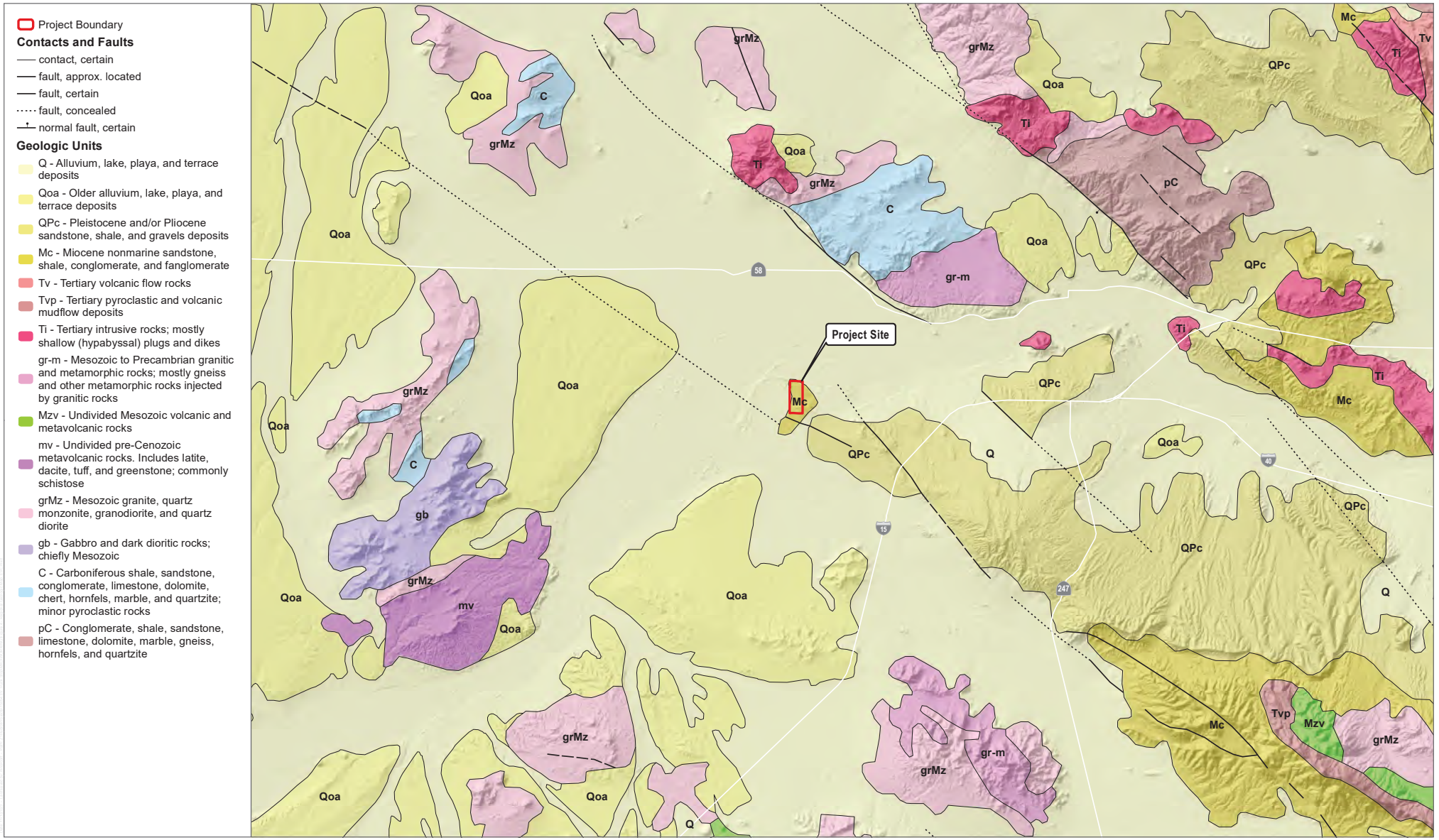

SOURCE: California Department of Conservation

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FIGURE 4

Regional Geologic Map

Lenwood EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project - Water Supply Assessment

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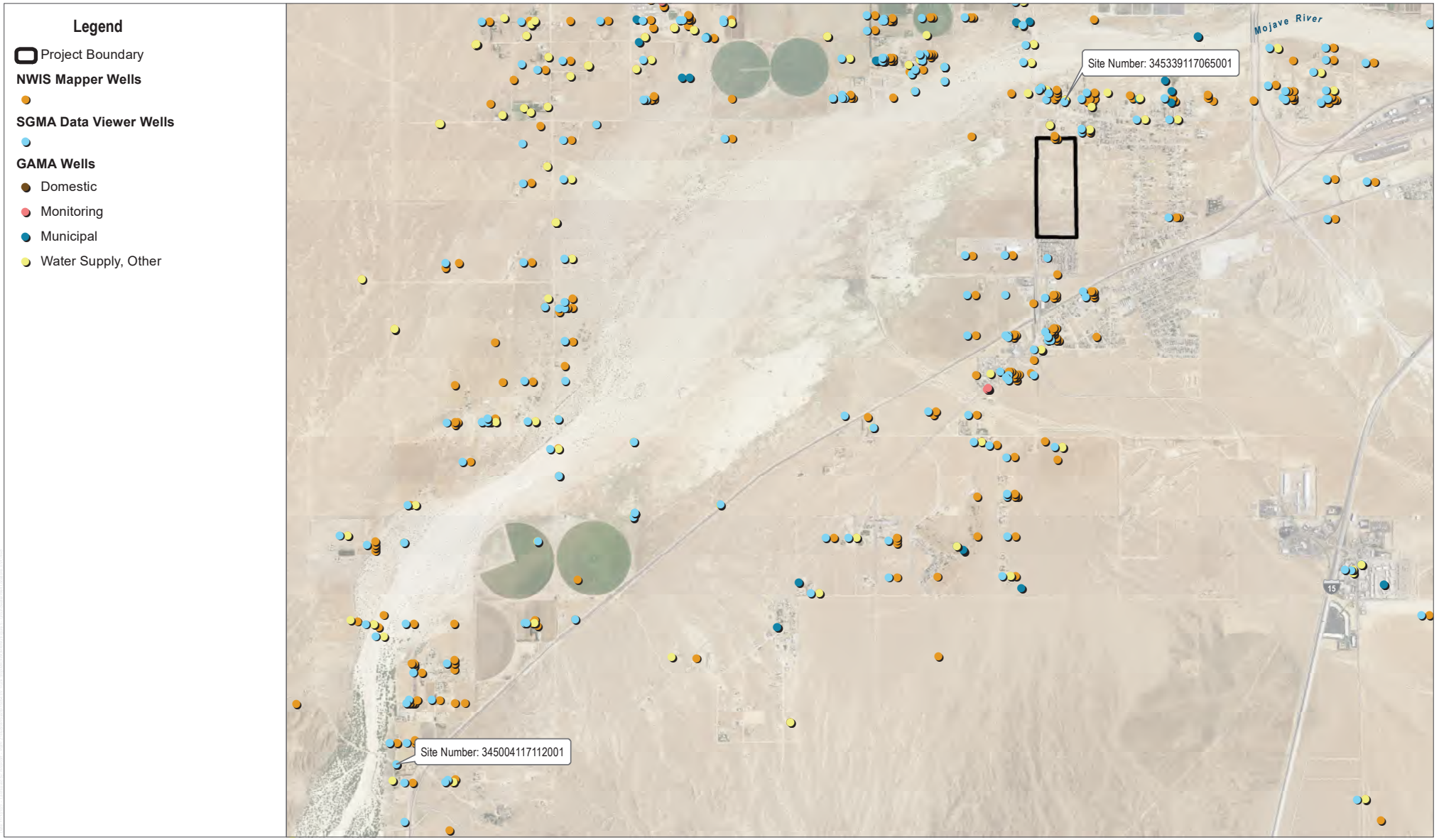

FIGURE 5

Groundwater Well Locations

Lenwood EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project - Water Supply Assessment

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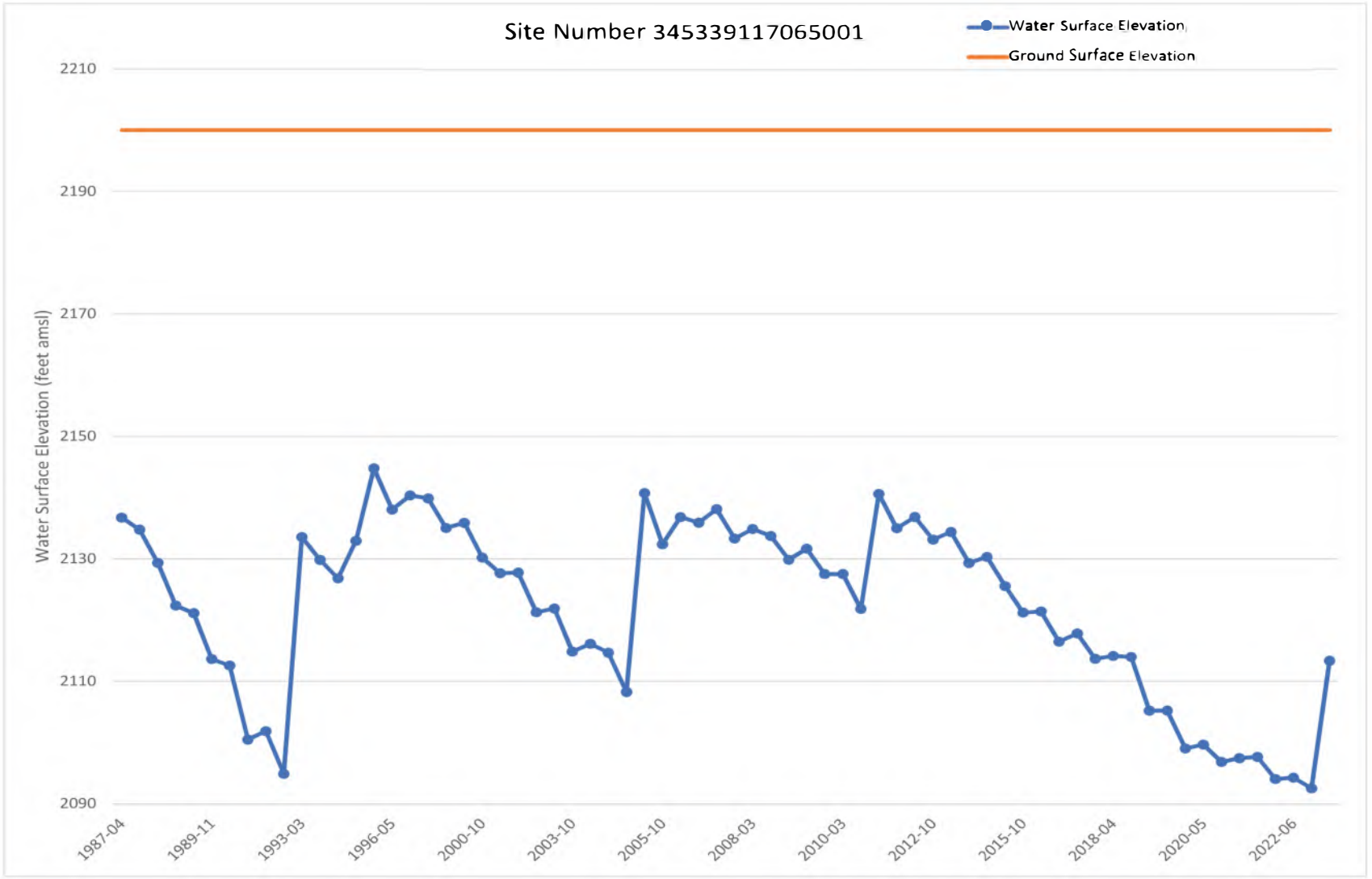

FIGURE 6

Site Number 345339117065001 Hydrograph

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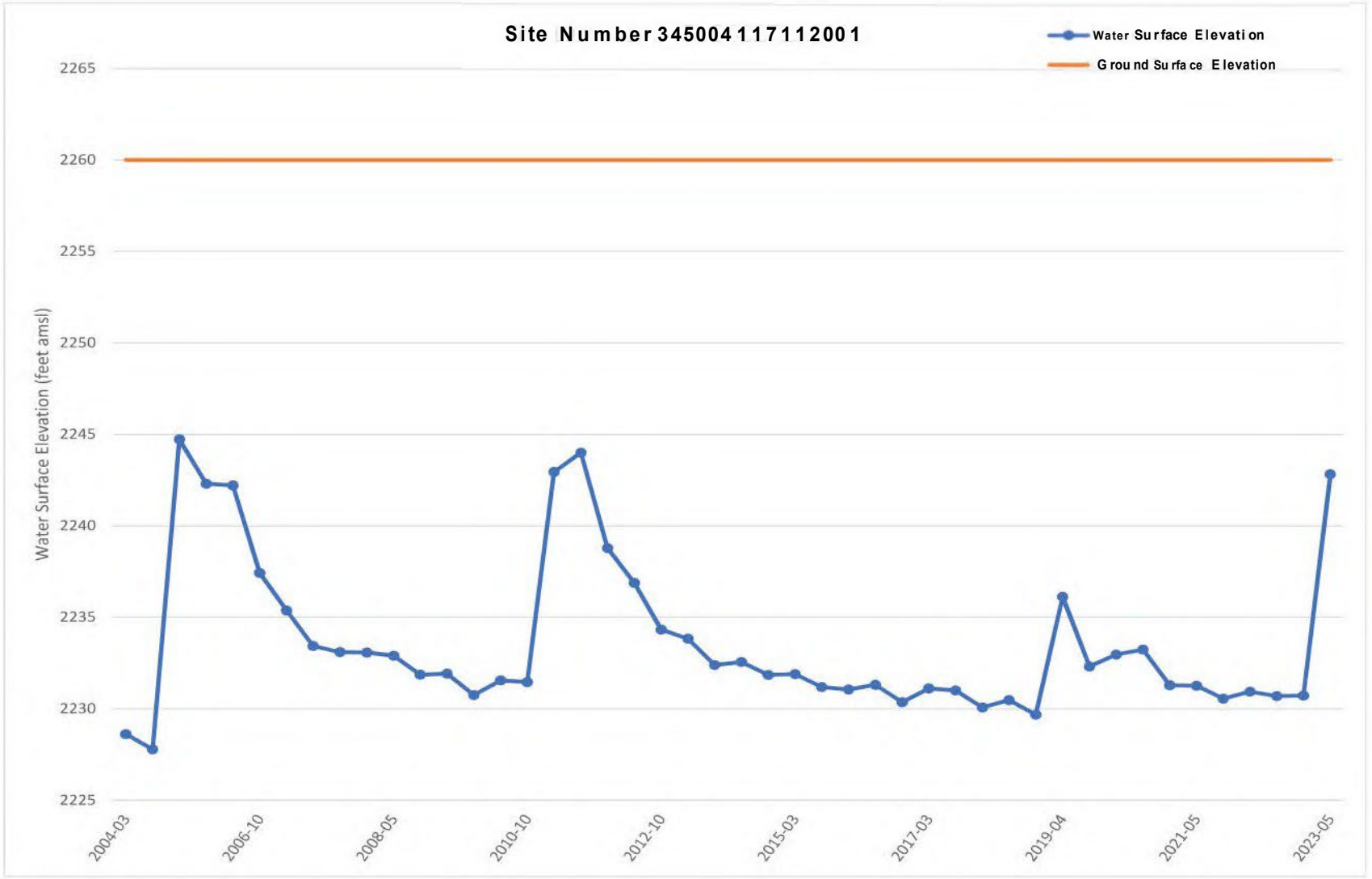

FIGURE 7

Site Number 345004117112001 Hydrograph

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Appendix A

Model Water Efficient Landscape Ordinance Calculation

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ETo) 66.5 (zone 17)

Hydrozone # /Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (sq, ft,)	ETAF x Area	Estimated Total Water Use (ETWU)[e]
Regular Landscape Areas							
2	0.3	Drip	0.81	0.37	627,041	232,005	**9,565,573**
				Totals	(A)	(B)	
Special Landscape Areas							
				1			
				1			
				1			
				Totals	(C)	(D)	
						ETWU Total	**9,565,573**
						Maximum Allowed Water Allowance (MAWA)[e]	11,633,805

[a] ***Hydrozone #/Planting Description***
E.g
1.) front lawn
2.) low water use plantings
3.) medium water use planting

[b] ***Irrigation Method***
overhead spray
or drip

[c] ***Irrigation Efficiency***
0.75 for spray head
0.81 for drip

[d] ***ETWU*** **(Annual Gallons Required) =**
Eto x 0.62 x ETAF x Area
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

[e] ***MAWA (Annual Gallons Allowed)*** *= (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]*
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

ETAF Calculations

Regular Landscape Areas

Total ETAF x Area	(B)
Total Area	(A)
Average ETAF	**B ÷ A**

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas

Total ETAF x Area	(B+D)
Total Area	(A+C)
Sitewide ETAF	**(B+D) ÷ (A+C)**

Appendix L
Local Transportation Assessment

Local Transportation Assessment

Electric Vehicle Charging Station and Logistics Facility Project

San Bernardino County

MAY 2026

Prepared for:

EVC PARTNERS LLC
725 30th Street, Suite 205
Sacramento, California 95816
Contact: Phil Angelides

Prepared by:

DUDEK

687 S. Coast Highway 101, Suite 110
Encinitas, California 92024

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1 Introduction

1.1 Purpose and Scope of the LTA

The purpose of this Local Transportation Assessment (LTA) is to identify potential transportation impacts associated with the proposed Lenwood EV Charging Station and Logistics Facility Project (project) to be located on Lenwood Road between California Highway 58 (CA 58) and Interstate 15 (I-15), in the County of San Bernardino (Figure 1, Project Location). This LTA has been prepared per the San Bernardino County Transportation Impact Study Guidelines (July 2019), the San Bernardino County Transportation Authority's (SBCTA) Congestion Management Program (CMP) and Caltrans Transportation Impact Study Guide (May 2020). In addition, this LTA complies with the City of Barstow Circulation Element (2015). The scope of the LTA was approved by the San Barnardino County Public Works Department and the City of Barstow in April 2025. The approved Transportation scoping memo is provided as Appendix A. The analysis is also based in part on the Barstow International Gateway (BIG) 2 Level of Service Assessment – Transportation Analysis (Kimley Horn 2025) published in November 2025.

The purpose of this LTA is to:

- Document existing roadway, pedestrian, bicycle, transit and traffic conditions, including intersection levels of service in the study area;
- Estimate trip generation, distribution, and assignment characteristics for the proposed project;
- Provide a Vehicle Miles Traveled (VMT) analysis per Senate Bill 743, the updated California Environmental Quality Act (CEQA) Guidelines, and the San Bernardino County Transportation Impact Study Guidelines;
- Document future short-range (Opening Year 2028) intersection levels of service in the study area per traffic volumes derived from adding growth to existing traffic volumes;
- Analyze the potential traffic impacts that would occur as a result of buildout of the proposed project under the Opening Year (2028) and Horizon Year (2048) buildout conditions;
- Identify CEQA-required mitigation measures for significant transportation impacts and/or other improvements needed to meet level of service standards (if any); and,
- Provide findings and recommendations based on the traffic analysis of the proposed project.

Figure 1, Project Location and Study Area, shows the project location and study area. The study area is comprised of 15 intersections, two roadway segments, and eight project driveways.

1.2 Project Description

The approximately 100-acre Project site includes four parcels (049-714-203, 049-714-204, 049-714-214, and 049-714-215) and is located on Lenwood Road between CA 58 and Interstate-15, approximately one mile west of CA 58 and four miles west of downtown Barstow. The Project site is undeveloped and surrounded by undeveloped lands with the exception of rural residential properties to the north and a single-family residential neighborhood, High Desert Estates, located adjacent to the southern Project boundary.

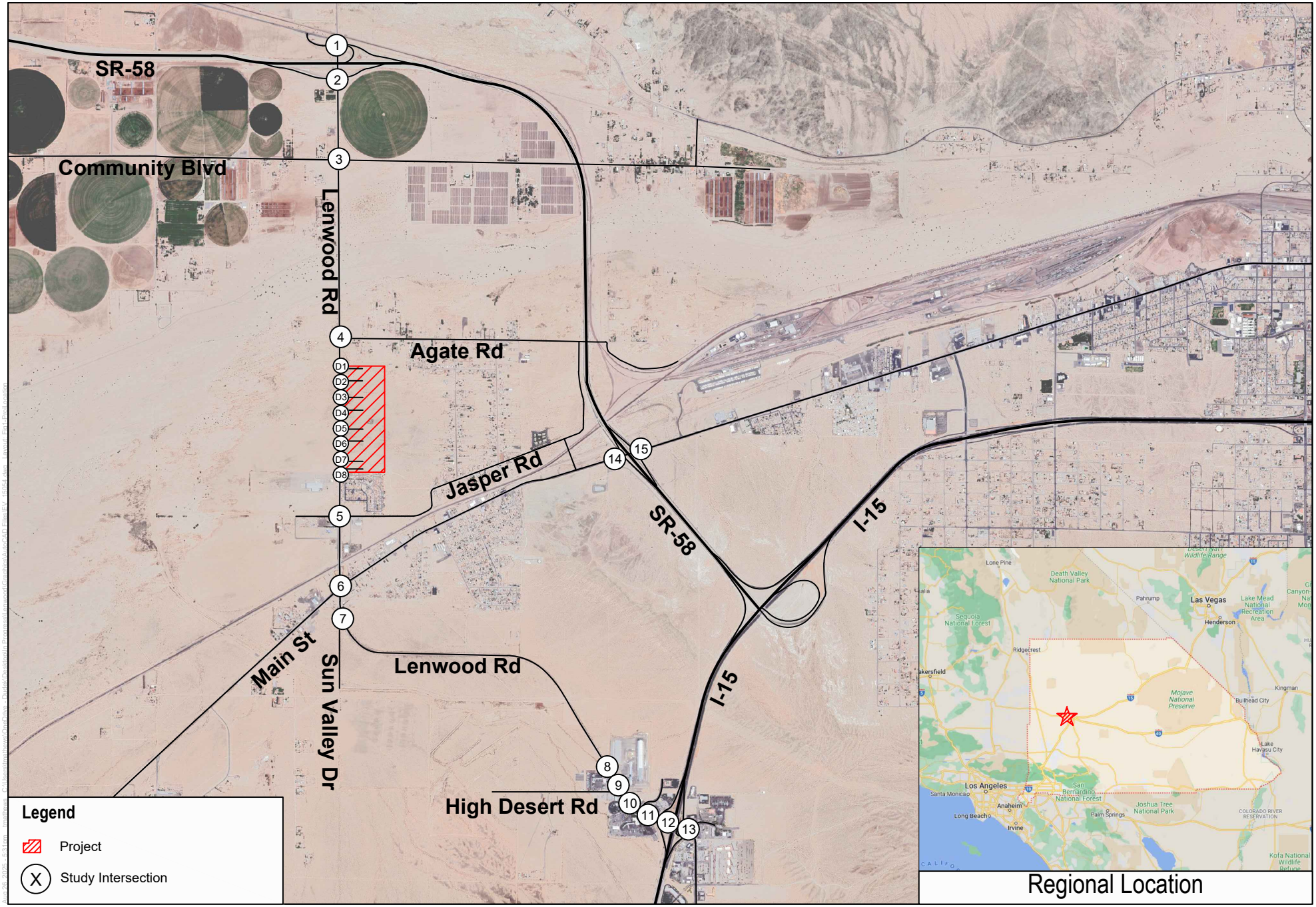
The project site plan is provided as Figure 2, and a summary of the proposed land uses is presented in Table 1. The Project is proposing development on approximately 20-acres in the southern portion of the site with an electric

vehicle (EV) charging hub for light duty/passenger vehicles and medium and heavy-duty trucks. The site will have a range of EV chargers to serve different charging needs (e.g., automobiles vs medium and heavy-duty trucks; slower chargers for overnight truck charging vs: fast charging for trucks, etc.). The EV charging station will include a commercial building of up to 15,000 square feet (SF) that will contain ancillary uses (e.g., food, convenience services, amenities for site users, etc.) for those using the station, as well as for local residents and nearby light industrial uses. The remaining site is proposed to include three warehouse buildings of 447,144 SF each, for a total of 1,341,432 SF of light industrial warehouse, logistic, and distribution facilities. Access would be provided from Lenwood Road via eight driveways, with a four-lane internal road provided between the EV charging station and the logistics facility. Section 8 provides further information about the proposed site access and frontage improvements.

Table 1. Summary of Proposed Project Components

	Land Use	Size
EV Charging Station	Truck Chargers	45 chargers
	Auto Chargers	8 chargers
	Truck Wash	6,000 SF; 2 lanes
	Truck Maintenance	4,000 SF; 4 bays
Commercial	Retail	12,000 SF
	Fast Food with Drive-thru	3,000 SF
Warehouse	Building A	447,144 SF
	Building B	447,144 SF
	Building C	447,144 SF
	Subtotal	*1,341,432 SF*

Notes: SF = square feet



SOURCE: Google Earth 2023

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FIGURE 1

Project Location and Study Area

EV Charging/Logistics Facility Project

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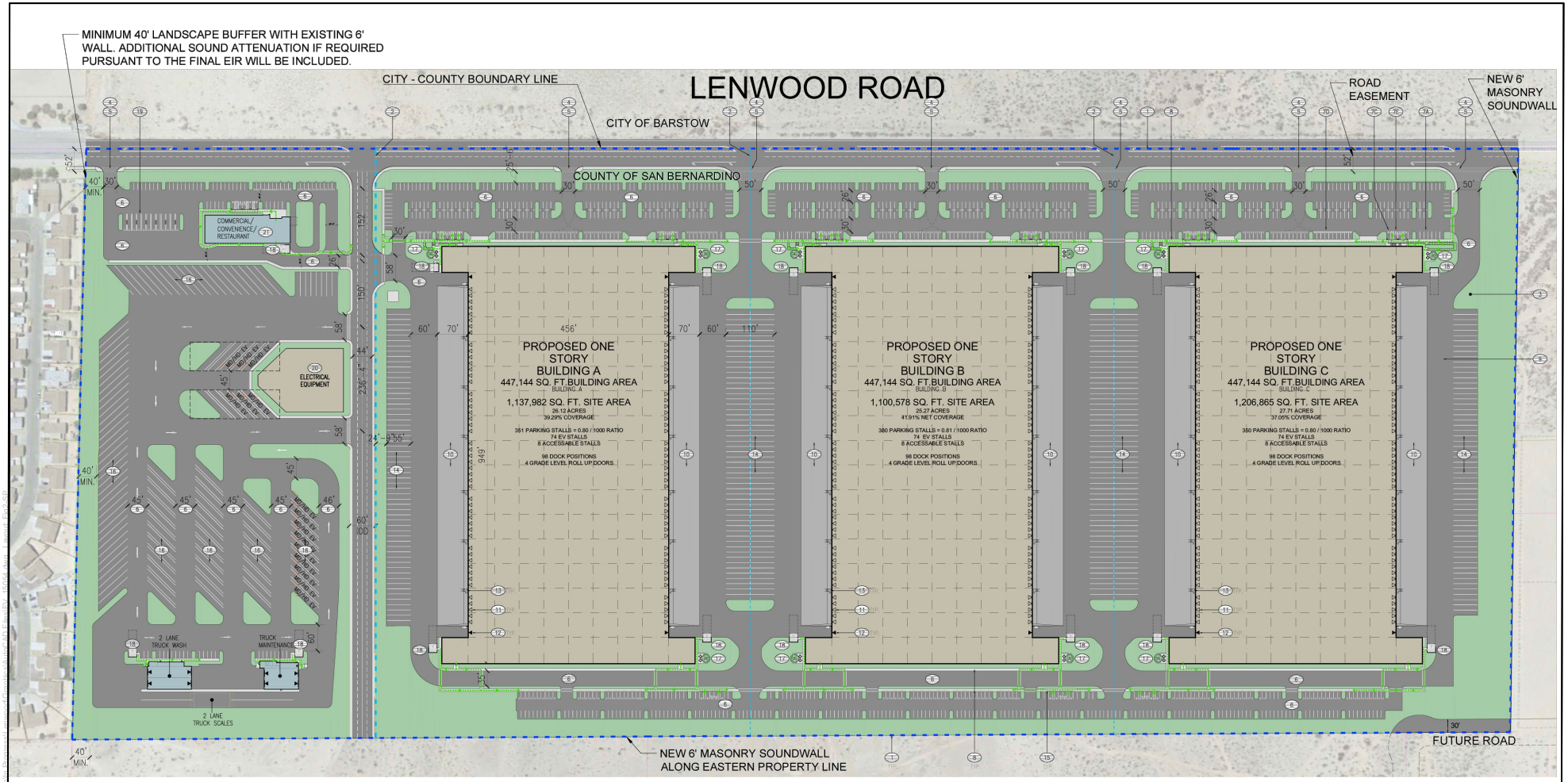

SITE LEGEND:

- BUILDING AREA
- SITE CONCRETE
- COMMERCIAL AREA
- ADA PATH OF TRAVEL
- ASPHALT AREA
- LANDSCAPE AREA
- EXISTING PROPERTY LINE
- NEW PARCEL LINE
- ▽ 9' X 10' OVERHEAD DOCK LEVEL DOOR
- ▼ 12' X 14' OVERHEAD GRADE LEVEL DOOR
- FIRE DEPARTMENT TURN RADIUS: R19' R45'

SOURCE: RMW Architecture Interiors, 2026

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FIGURE 2

Project Site Plan

EV Charging/Logistics Facility Project

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2 Study Area

This section provides a summary of the existing street network, including the major roadways serving the site, the existing transit service, and bicycle and pedestrian facilities in the study area.

2.1 Existing Street Network

Figure 3 provides the County of San Bernardino Roadway Network and Figure 4a provides the City of Barstow General Plan Roadway Network. The City is in the process of updating their General Plan and associated circulation maps. A map of the City's proposed roadway network is provided as Figure 4b and a map of the City's proposed goods movement routes is provided as Figure 5 (City of Barstow 2025). Characteristics of the primary roadways within the study area are described below.

- I-15 is a north-south, divided, four to eight-lane freeway classified as a major interstate freeway that begins near the Mexico—US Border and extends to Alberta, Canada, and serves as a critical connection for many other regional roadways, freeways, and highways. Caltrans classifies I-15 as a designated truck route. The nearest interchange to the site is provided at I-15 and Lenwood Road, approximately 3.25 miles south of the site.
- State Route 58 is a four-lane east-west divided highway which currently has its eastern terminus at the I-15 freeway in south Barstow. SR-58 provides regional access westerly to Bakersfield and northern California cities. The nearest interchange to the site is provided at SR-58 and Lenwood Road, approximately 1.5 miles north of the site. SR-58 is a designated truck route in the City of Barstow Circulation Element.
- Community Boulevard is an east-west two-lane roadway between Hinkley Road to the west and Old Highway 58 to the east. Community Boulevard is designated as a Collector in the City of Barstow Circulation Element.
- Lenwood Road is a north-south two to four-lane road designated as a Major Highway in the County's Roadway Network and a Primary Arterial in the City of Barstow Circulation Element. Lenwood Road is proposed as an Industrial Arterial as part of the City's General Plan update (City of Barstow 2025). Lenwood Road serves the west end of Barstow; with an interchange at I-15, and intersects west Main Street in the unincorporated community of Lenwood. North of Main Street it crosses the Mojave River and the BNSF Railroad to link with SR-58. South of I-15, Lenwood Road was extended to the old Sidewinder Road interchange. This new roadway, named Outlet Center Drive, provides a secondary access to the Lenwood Road/I-15 Freeway interchange commercial area. Portions of Lenwood Road, near the I-15 interchange and commercial areas and near Main Street have been fully improved with sidewalks, curb and gutter, and widened to four lanes, with left turn pockets at major intersections.
- Agate Road is a two-lane local road between Lenwood Road to the west and Western Drive to the east. Agate Road serves the residential neighborhoods to the north and east of the project site.
- Jasper Road is a two-lane local road between Roadrunner Road to the west and Pettit Road to the east. East of Pettit Road, Jasper Road traverses north-south where it terminates at Agate Road to the north.
- Main Street (old U.S. Highway 66) is the key east-west arterial through the City of Barstow and is designated as a Major Highway in the County's Roadway Network and as a Primary Arterial in the City of Barstow Circulation Element. Main Street is also a designated truck route in the City of Barstow Circulation Element. It currently has interchanges with I-15 and I-40. West of Lenwood Road, the roadway becomes National Trails Highway and provides local access to the Helendale/Oro Grande areas. This roadway also serves as an alternative route for I-15 south to Victorville.

2.2 Transit System

The City of Barstow (and its sphere of influence) is served by bus services provided by the Victor Valley Transit Authority (VVTA), which provides regional and local services throughout Victor Valley. Regionally, the City is served by passenger rail services offered by the National Railroad Passenger Corporation (Amtrak). The rail and transit providers are described below.

Victor Valley Transit Authority

VVTA provides local bus service for the communities of Adelanto, Apple Valley, Barstow, Helendale, Hesperia, Victorville, and unincorporated areas of San Bernardino County. VVTA operates five local bus routes in Barstow, providing bus connections between City Hall, shopping centers, schools and colleges, and residential areas. Route 3 shown in Figure 6, Existing Transit Facilities, is the closest bus route to the project site, with bus stops near the corner of Lenwood Road and Camino Del Sol, approximately 315 feet south of the project site, and near the corner of Lenwood Road and Agate Road, approximately 675 feet north of the project site. The route operates weekdays, between 6:00 a.m. and 7:50 p.m., Saturday and Sunday between 8:00 a.m. and 4:50 p.m. (VVTA 2023).

VVTA also provides commuter service between Barstow and Fort Irwin and regional service between Barstow, Victorville and San Bernardino, and Barstow, Hinkley and Helendale.

VVTA also offers paratransit services for persons with special needs on any paved street within Barstow as long as it is within their service boundaries. The VVTA paratransit services do not travel a fixed route and provide a flexible alternative to the fixed bus routes (VVTA 2023).

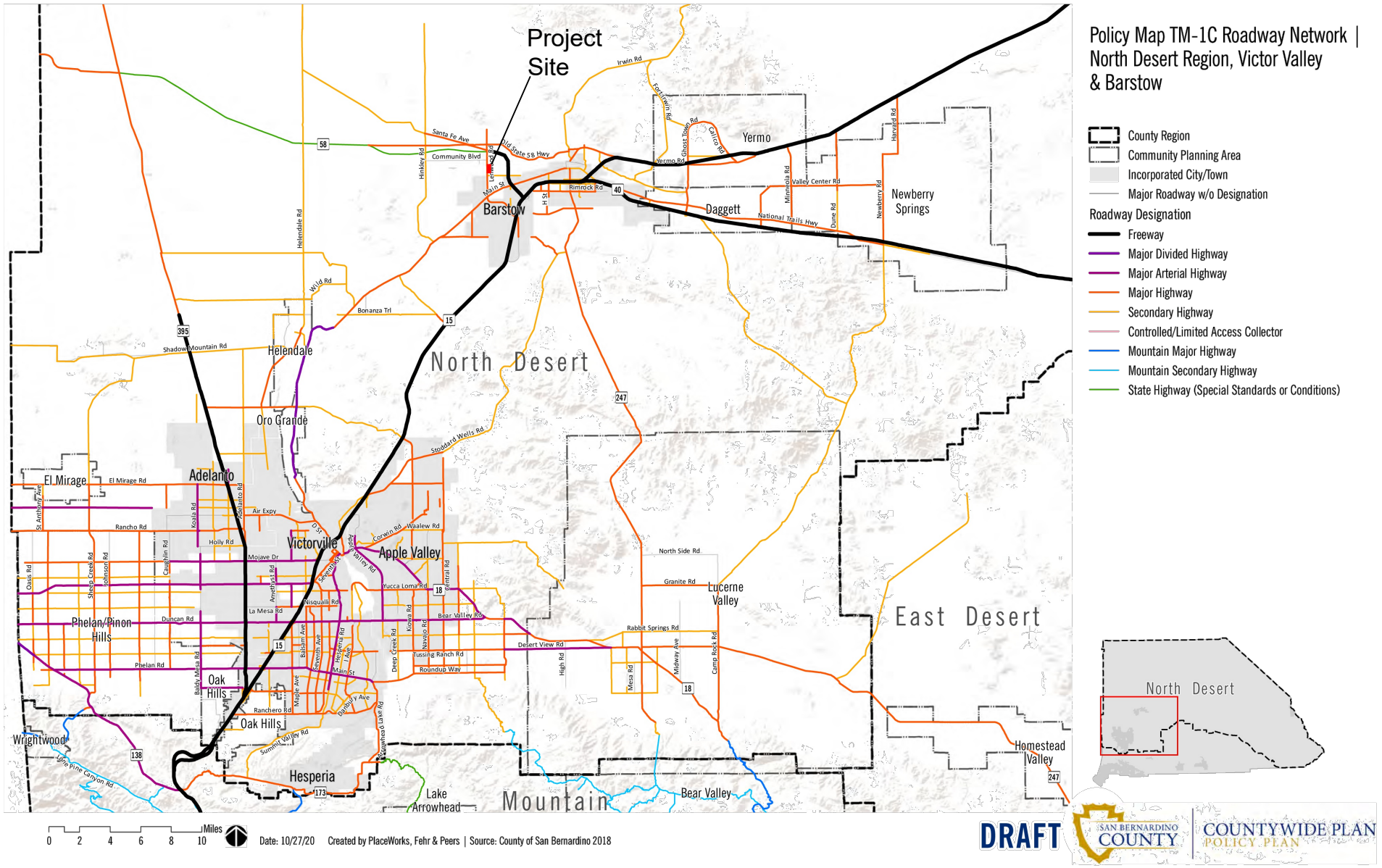
Amtrak

Amtrak is a national rail operator, with 21,000 route miles in 46 states, the District of Columbia, and three Canadian Provinces. The closest passenger rail station is the Barstow Amtrak Station, located at 650 North First Avenue in Barstow, located approximately six miles east of the project site. The Barstow Amtrak Station is part of the Southwest Chief Route, an east-west rail line extending from Los Angeles, California, to Chicago, Illinois (Amtrak 2023).

2.3 Pedestrian and Bicycle Facilities

The project site is primarily surrounded by vacant land (except for residential to the north and south) with limited pedestrian or bicycle infrastructure provided. Where new development has occurred, sidewalks typically have been constructed along project site frontages and within residential developments. A sidewalk is provided on the west side of Lenwood Road, along the frontage of the Valmont Utility company, immediately south of the project site. As the adjacent areas surrounding the project site continue to develop, pedestrian access will be improved.

Figure 7 presents the County's Bicycle and Pedestrian Planning Policy Map, Figure 8a presents the City's existing bicycle routes, and Figure 8b presents the City's proposed bicycle network. As shown in the figures, Class II bicycle lanes (painted on-street lane) are proposed on Lenwood Road, between Agate Road to the north and Main Street to the south, and between High Point Parkway and Mercantile Way. This includes the segment of Lenwood Road along the project frontage. Class II bicycle lanes are also proposed on Main Street in the vicinity of the site. An east-west equestrian trail is also proposed south of Community Boulevard beginning near the western City limits and continuing east to the eastern City limits (San Bernardino County 2018).



SOURCE: San Bernardino County, 2018.

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FIGURE 3

San Bernardino County Roadway Network

EV Charging/Logistics Facility Project

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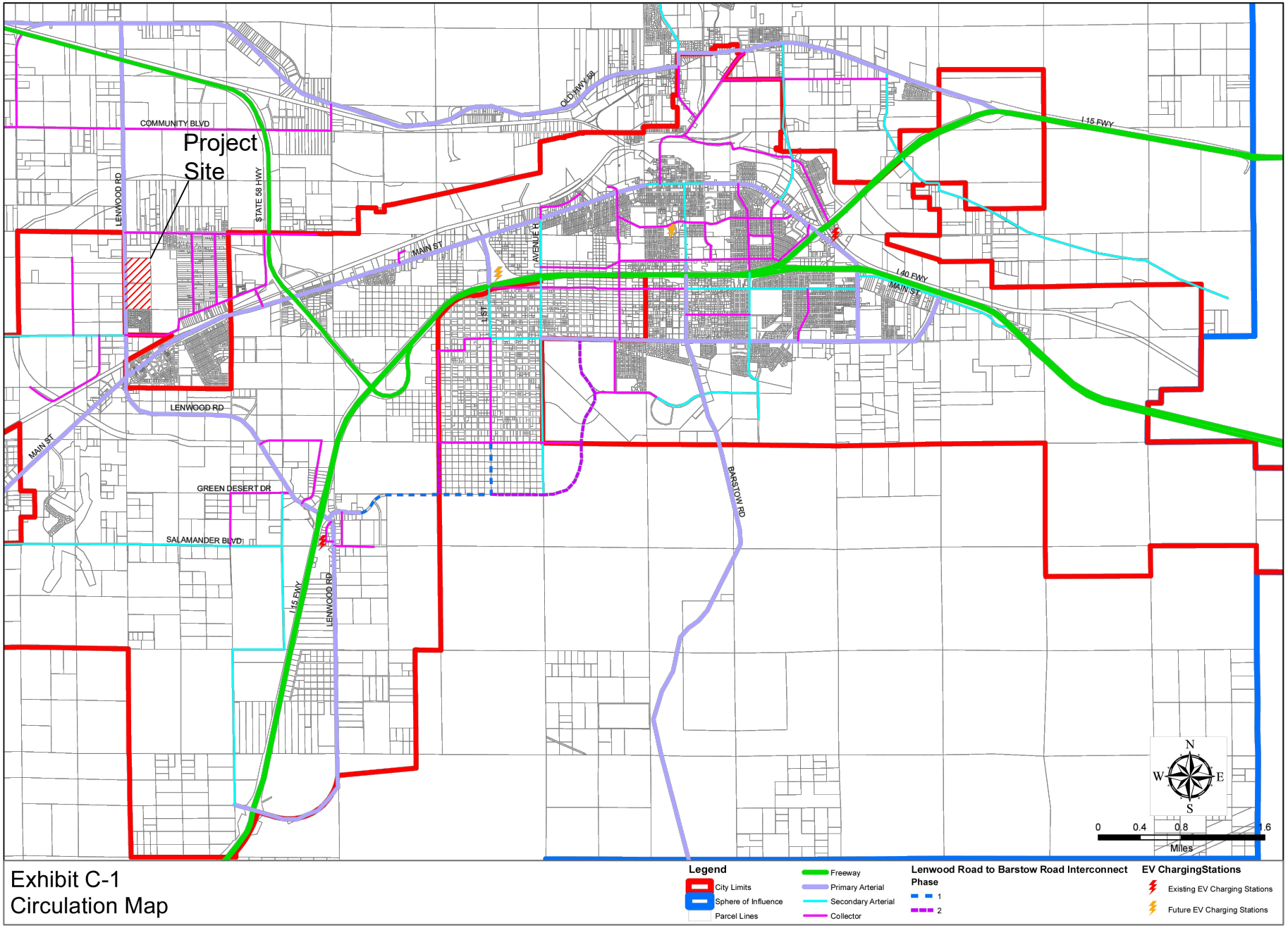

SOURCE: City of Barstow, 2015.

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FIGURE 4a

City of Barstow Circulation Plan

EV Charging/Logistics Facility Project

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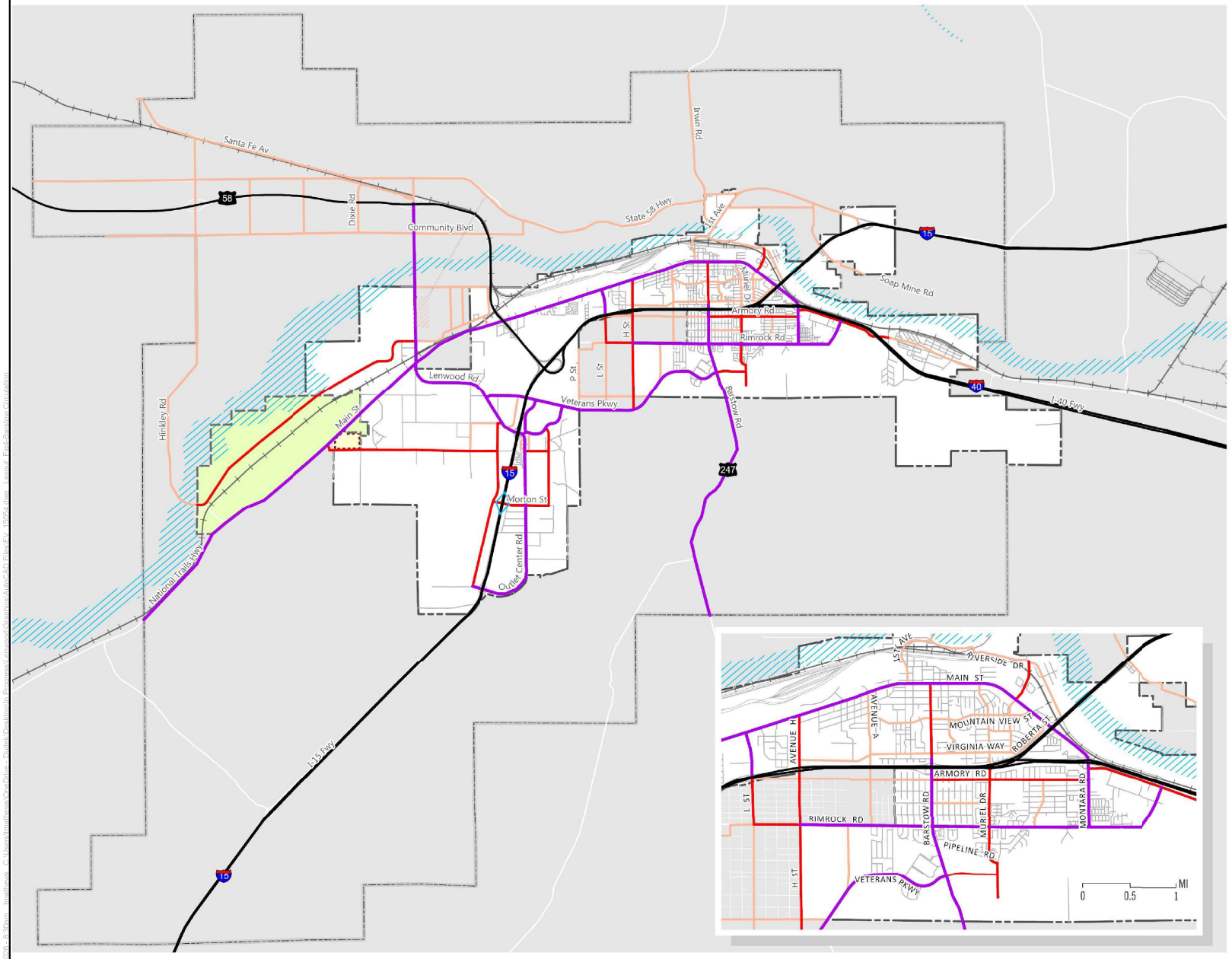

SOURCE: City of Barstow, 2025.

FIGURE 4b

City of Barstow Circulation Plan

EV Charging/Logistics Facility Project

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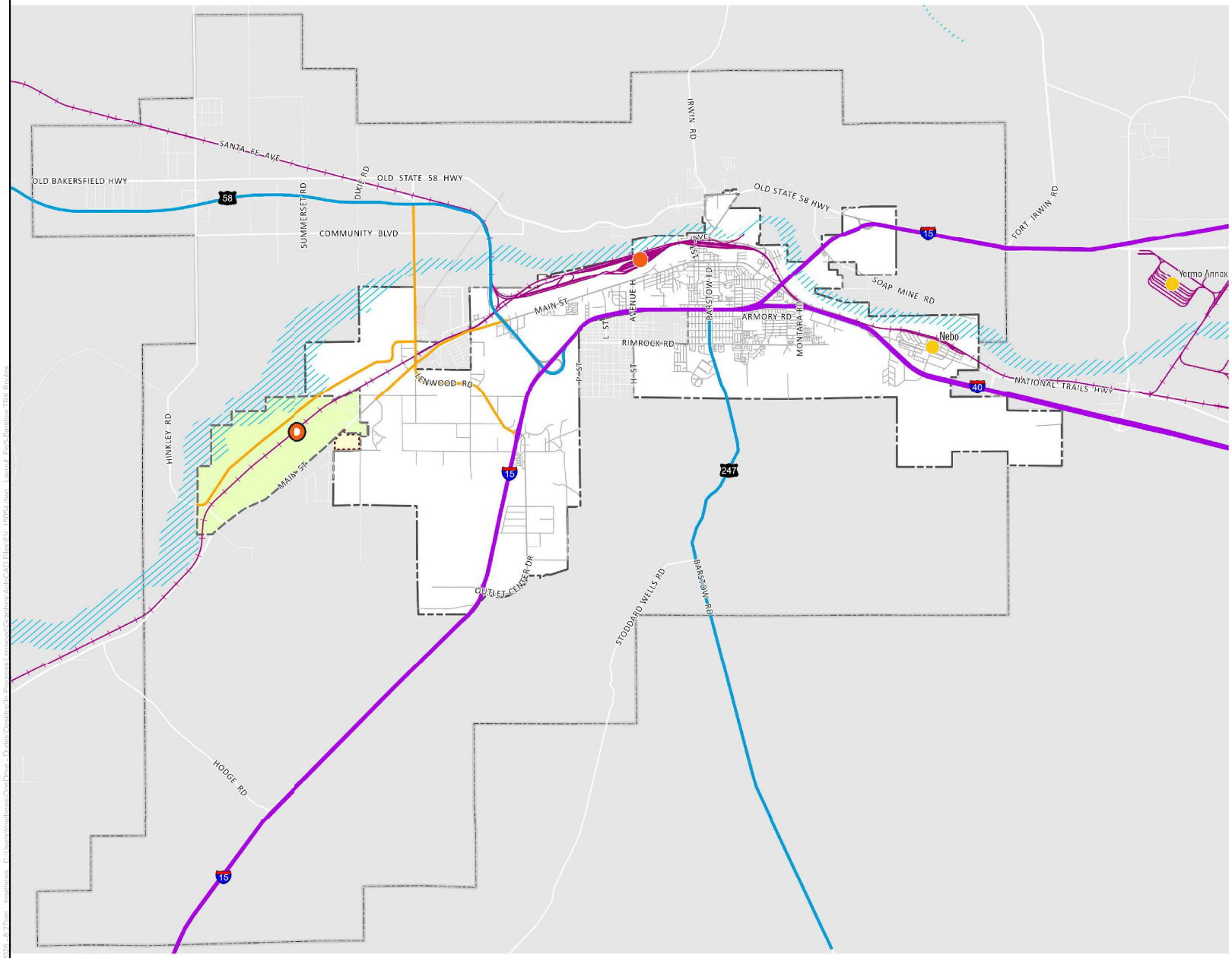

Figure CM-4
Goods Movement

City Boundary
Sphere of Influence
Annexation Area A
Annexation Area B

Rail Facilities
Existing Rail Yard (MCLB)
Existing Rail Yard (BNSF Barstow)
Future Rail Yard (BNSF BIG)
BNSF Rail

Truck Routes
National Truck Route
State Truck Route
Local Truck Route

Note:
The rail alignment within BIG will change after construction.

BARSTOW GENERAL PLAN

0 0.5 1 1.5 2 MI

Date: 11/3/2025

Source: City of Barstow 2025, Caltrans 2025

SOURCE: City of Barstow, 2025.

FIGURE 5

City of Barstow Goods Movement

EV Charging/Logistics Facility Project

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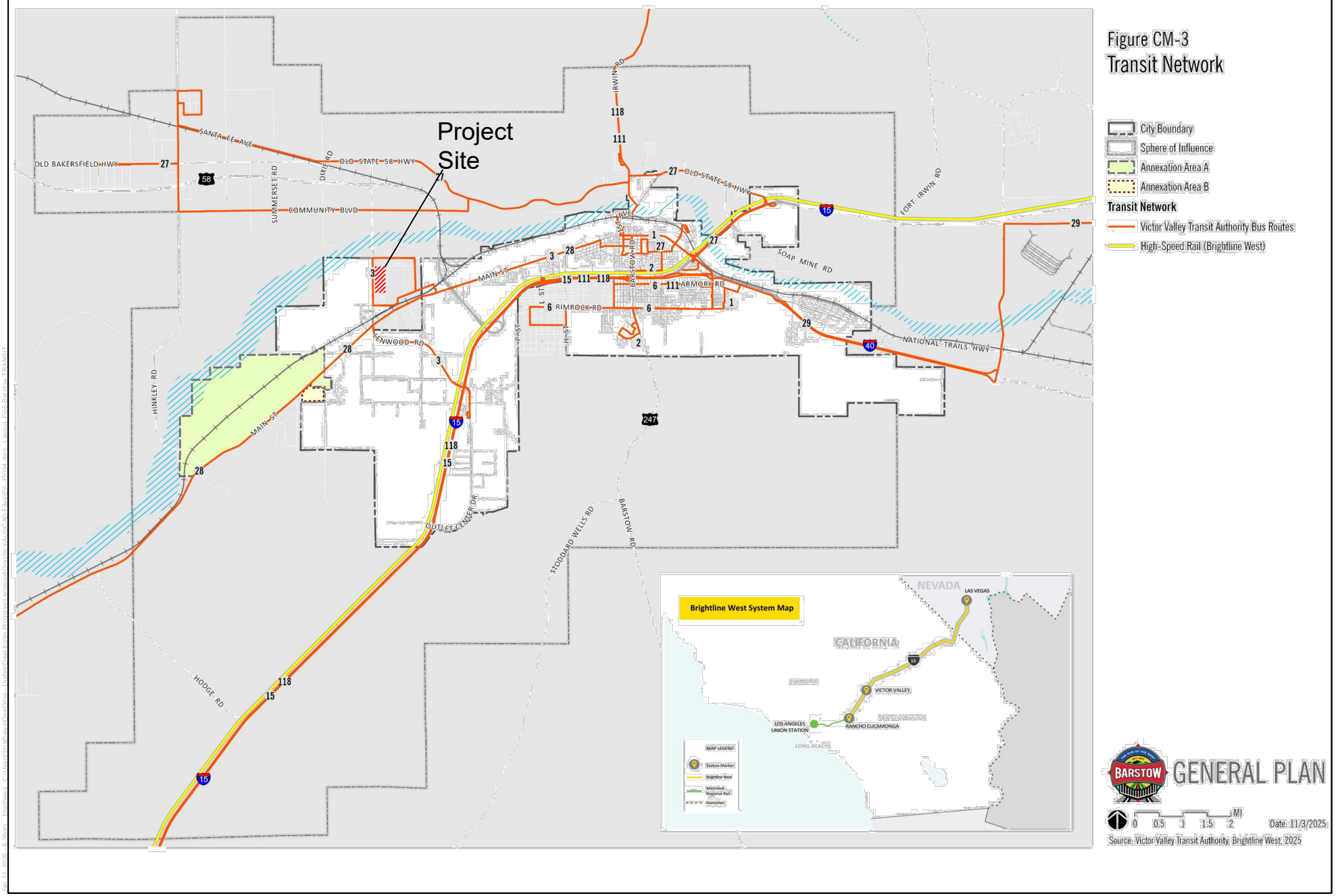

SOURCE: City of Barstow, 2025.

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FIGURE 6

Existing Transit Facilities

EV Charging/Logistics Facility Project

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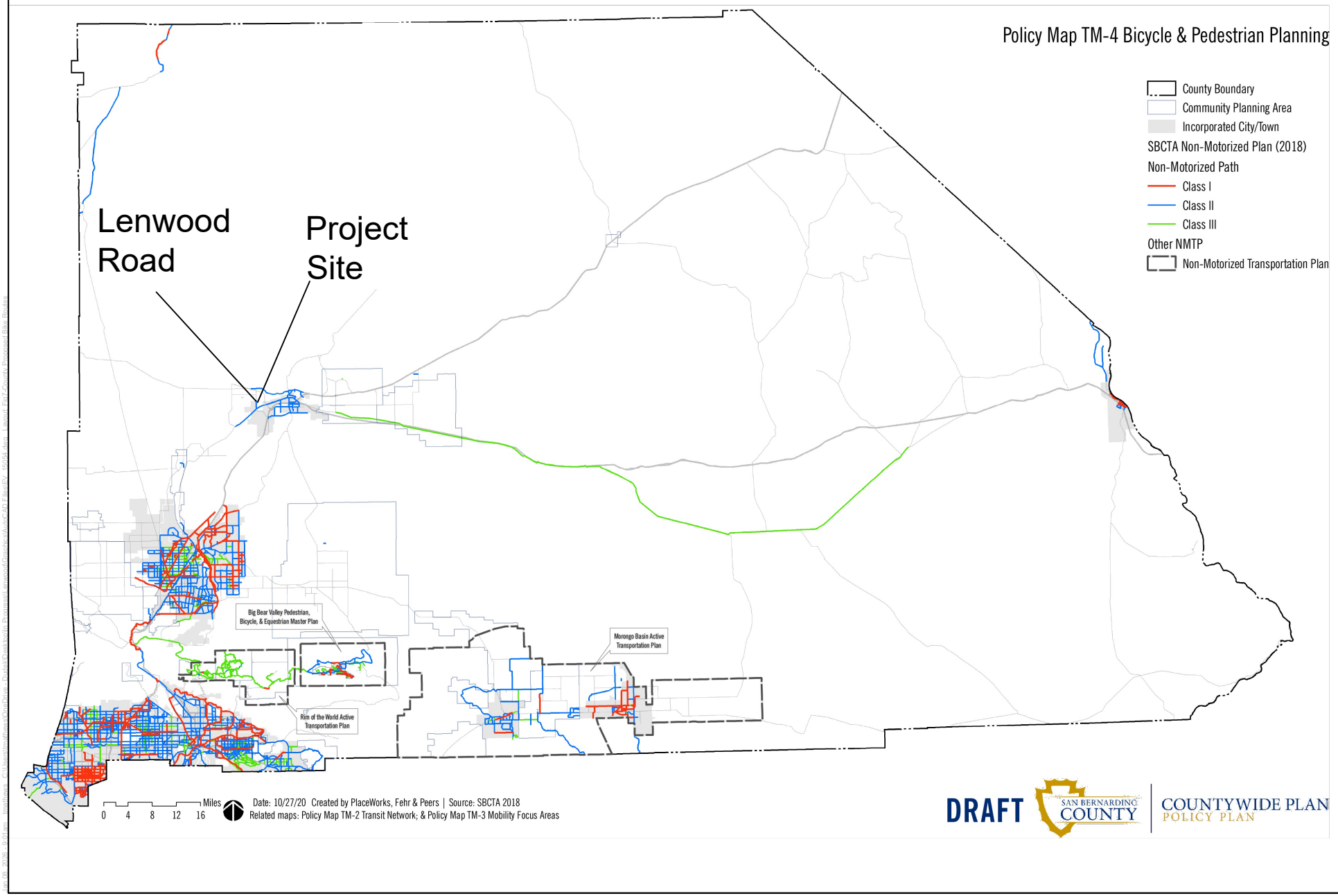

SOURCE: County of San Bernardino, 2018.

FIGURE 7

San Bernardino County Bicycle and Pedestrian Planning Policy Map

EV Charging/Logistics Facility Project

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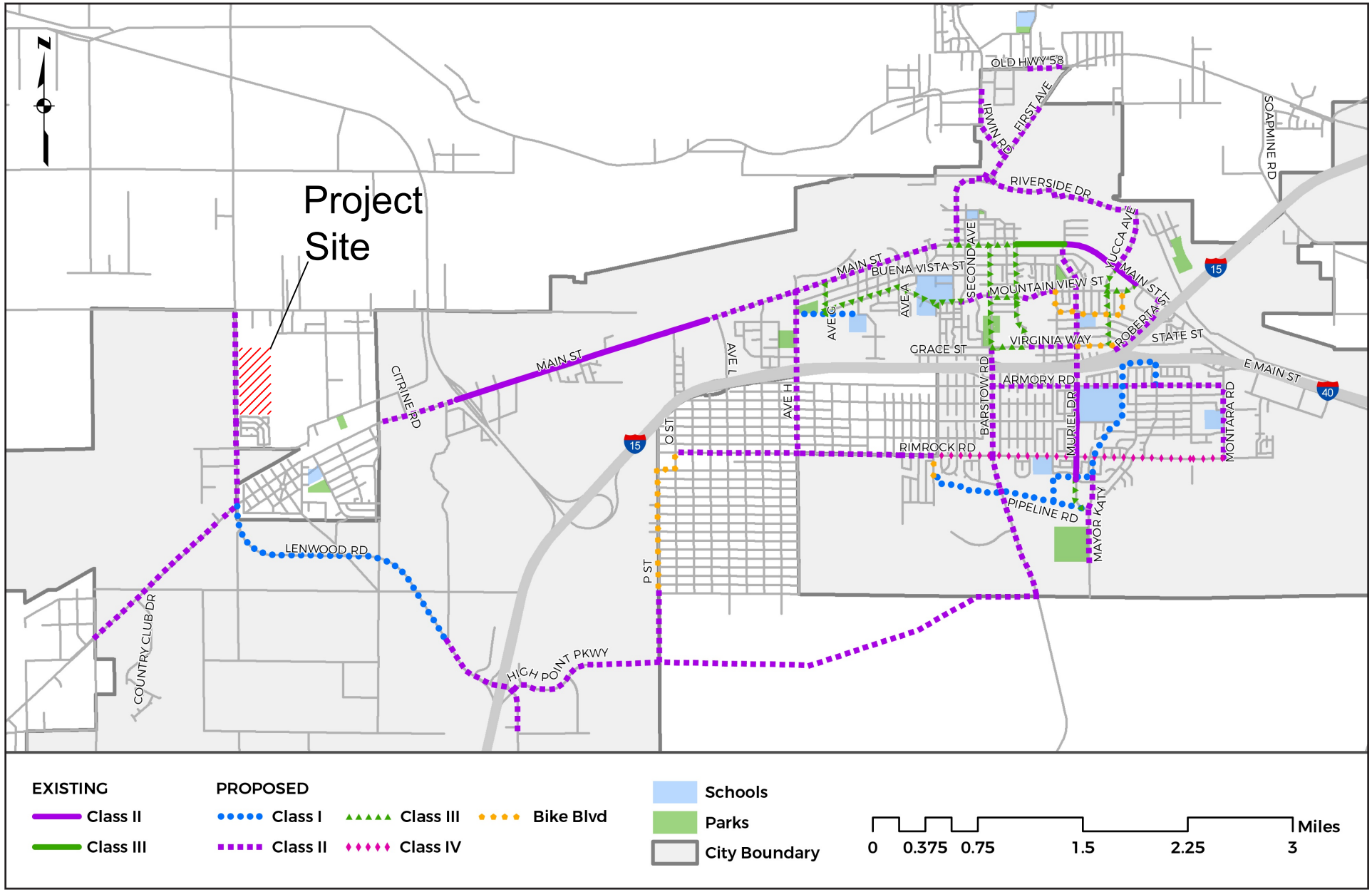

SOURCE: City of Barstow, 2018.

FIGURE 8a

City of Barstow Pedestrian Paths, Bicycle Routes, and Park and Ride

EV Charging/Logistics Facility Project

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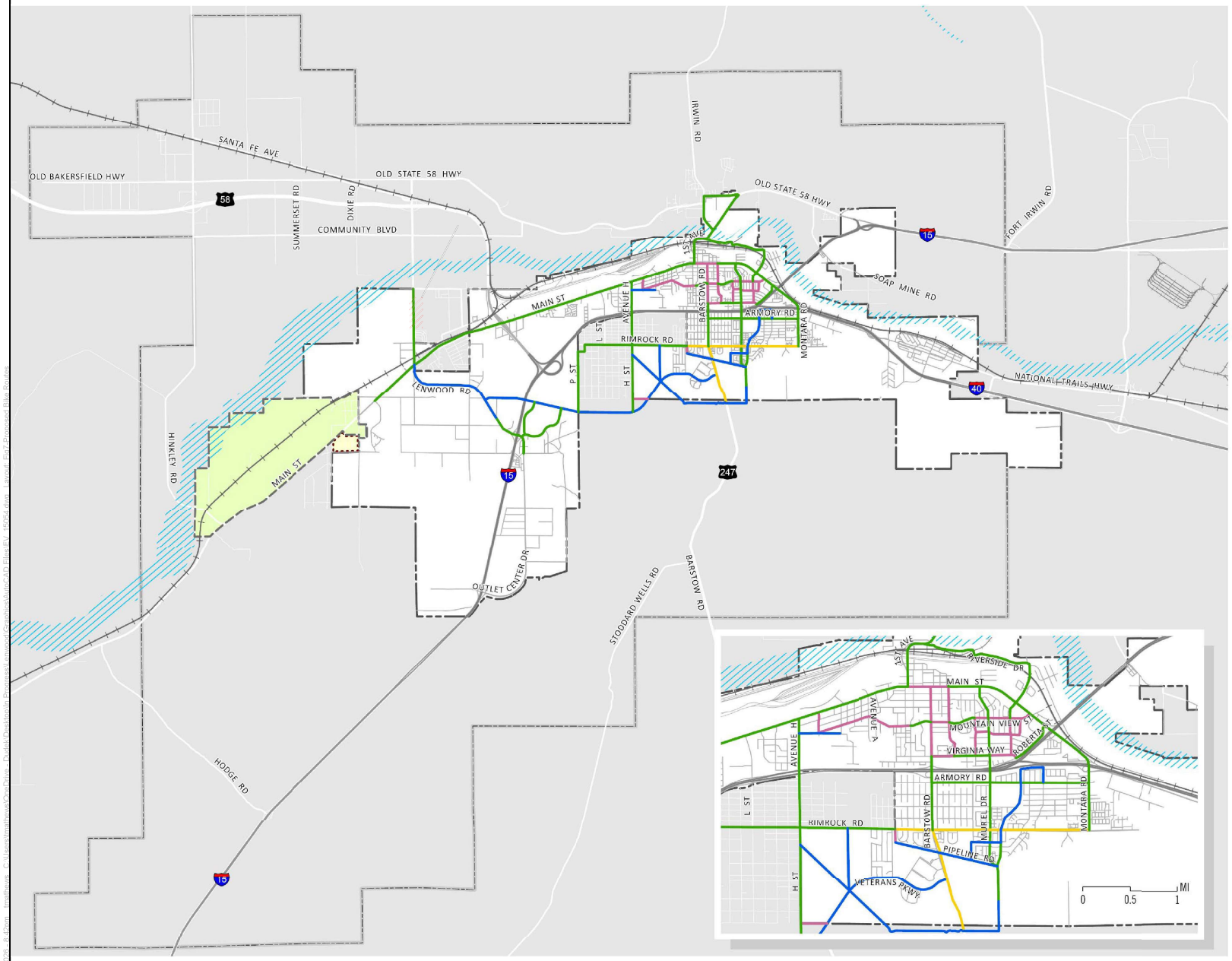

Figure CM-2
Bicycle Network

City Boundary
Sphere of Influence
Annexation Area A
Annexation Area B

Bike Facility Classification

Class I Multipurpose Trail
Class II Bike Lane
Class III Bike Route
Class IV Separated Bikeway/Cycle Track

Note:
This map displays the City's ultimate citywide bicycle network, including facilities that currently exist and future improvements (upgrades and/or new facilities). New bicycle facilities will be added as roadways are improved, designed, and constructed.

Facilities shown outside of the city boundary would be constructed concurrently with roadway improvements and/or in coordination with the County of San Bernardino.

BARSTOW GENERAL PLAN

0 0.5 1 1.5 2 MI

Date: 11/3/2025

Source: City of Barstow 2025

SOURCE: City of Barstow, 2025.

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FIGURE 8b
City of Barstow Bicycle Routes
EV Charging/Logistics Facility Project

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3 Project Traffic

This section documents the trip generation, distribution, and assignment of project traffic in the study area.

3.1 Trip Generation

The estimated project trip generation is presented in Table 2. Trip generation estimates for the proposed commercial building and logistics facility are based on daily and AM and PM peak hour trip generation rates obtained from the Institute of Transportation Engineers (ITE) Trip Generation Handbook, 11th Edition (ITE 2021). Since there are no industry standard rates for EV charging stations, trip rates for the EV charging station (by charging/fuel type) are based on assumptions regarding the maximum charging capacity, utilization rates, and other anticipated site operations. The assumptions are outlined in detail in the trip generation table notes.

Additionally, passenger car equivalent (PCE) factors were applied to the trip generation estimates to account for truck traffic. The San Bernardino County Congestion Management Program (CMP) indicates that projects with high truck percentages should convert project trips to PCE. A 1.5 PCE factor was applied to 2-axle trucks, 2.0 PCE for 3-axle trucks, and a 3.0 PCE factor was applied to 4-axle trucks, per the San Bernardino County CMP (San Bernardino Associated Governments 2016). As the ITE Trip Generation Handbook does not provide a breakdown of truck traffic by axle classification, vehicle mix data and percentages are also applied to the project trip generation estimates from the Southern California Air Quality Management District (SCAQMD) Warehouse Truck Trip Study Data Results and Usage (SCAQMD 2014).

As shown in Table 2, the project would generate 5,580 daily trips, 429 AM peak hour trips, and 470 PM peak hour trips. This is equivalent to 7,466 daily PCEs, 567 AM peak hour PCEs, and 623 PM peak hour PCEs.

3.2 Trip Distribution and Assignment

Regional Project trip distribution percentages are based on logical travel paths to and from the project site, consideration of designated truck routes, and the traffic distribution patterns analyzed for a recently approved industrial project adjacent to the project site.

Project trip distribution percentages are shown in Figures 9 and 10, for passenger vehicle and truck trips, respectively. The project trip assignments are shown in Figures 11, 12, and 13 for passenger vehicle, truck, and total trip assignments, respectively.

Table 2. Project Trip Generation

Land Use	ITE Code	Size/Units		Daily	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
Trip Rates[1]										
Strip Retail Plaza	822	TSF		54.45	1.42	0.94	2.36	3.30	3.30	6.59
Fast food with drive-thru	934	TSF		467.48	22.75	21.86	44.61	17.18	15.85	33.03
EV Charging Station (including Truck maintenance/wash)	N/A	see assumptions below[6]								
High-Cube Fulfillment Center Warehouse (non-sort)	155	TSF		1.81	0.12	0.03	0.15	0.06	0.10	0.16
Trip Generation										
Strip Retail[2]	822	12	TSF	653	17	11	28	40	40	79
Fast food with drive-thru[2]	934	3	TSF	1,402	68	66	134	52	48	99
EV Charging- Autos	N/A	8	fast chargers	439	13	13	26	15	15	30
EV Charging- Trucks[6]	N/A	30+15	fast chargers	658	20	20	39	24	24	47
Warehouse	155	1341.432	TSF	2,428	163	38	201	84	131	215
			Subtotal (Non-PCE)	*5,580*	*281*	*148*	*429*	*213*	*257*	*470*
Trip Generation By Vehicle Mix (Non-PCE)										
Vehicle Mix- Commercial										
Passenger Vehicles	100.0%			2,056	85	77	162	91	87	178
Vehicle Mix- Auto Chargers										
Passenger Vehicles	100.0%			439	13	13	26	15	15	30
Vehicle Mix- EV Truck Chargers[3]										
2-Axle Trucks	40.0%			263	8	8	16	9	9	19
3-Axle Trucks	10.0%			66	2	2	4	2	2	5
4+-Axle Trucks	50.0%			329	10	10	20	12	12	24
			EV Truck Chargers Total (Non-PCE)	**658**	**20**	**20**	**39**	**24**	**24**	**47**

Table 2. Project Trip Generation

Land Use	ITE Code	Size/Units	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Vehicle Mix- Warehouse[4]									
Passenger Vehicles		72.5%	1,760	118	28	146	61	95	156
2-Axle Trucks		4.6%	112	7	2	9	4	6	10
3-Axle Trucks		5.7%	138	9	2	11	5	7	12
4+-Axle Trucks		17.2%	418	28	7	35	14	23	37
Warehouse Total (Non-PCE)			**2,428**	**162**	**39**	**201**	**84**	**131**	**215**
Total Site									
Total Passenger Vehicles			**4,255**	**217**	**118**	**334**	**167**	**197**	**364**
Total Trucks			**1,325**	**65**	**30**	**95**	**47**	**60**	**106**
Total Trip Generation (Non-PCE)			**5,580**	**281**	**148**	**429**	**213**	**257**	**470**
Trip Generation By Vehicle Mix (PCE)									
Commercial Total (PCE)			**2,056**	**85**	**77**	**162**	**91**	**87**	**178**
Auto Chargers Total (PCE)			**439**	**13**	**13**	**26**	**15**	**15**	**30**
EV Truck Chargers (PCE, by Vehicle Classification) [5]									
Passenger Vehicles		n/a	0	0	0	0	0	0	0
2-Axle Trucks		1.5	395	12	12	24	14	14	28
3-Axle Trucks		2.0	132	4	4	8	5	5	10
4+-Axle Trucks		3.0	986	30	30	60	35	35	70
Total Passenger Vehicles			**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total Trucks			**1,513**	**46**	**46**	**92**	**54**	**54**	**108**
EV Charging Total (PCE)			**1,513**	**46**	**46**	**92**	**54**	**54**	**108**
Warehouse (PCE, by Vehicle Classification) [5]									
Passenger Vehicles		1.0	1,760	118	28	146	61	95	156
2-Axle Trucks		1.5	168	11	3	14	6	9	15
3-Axle Trucks		2.0	277	19	4	23	10	15	25
4+-Axle Trucks		3.0	1,253	84	20	104	43	68	111

Table 2. Project Trip Generation

Land Use	ITE Code	Size/Units	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Total Passenger Vehicles			1,760	118	28	146	61	95	156
Total Trucks			1,698	114	27	141	59	92	151
Warehouse Total (PCE)			3,458	232	55	287	120	187	307
Total Site Trip Generation (PCE)			7,466	376	191	567	280	343	623

Notes: Rounding discrepancies may occur. TSF = Thousand Square Feet; PCE = Passenger Car Equivalent

1 Trip rates from the Institute of Transportation Engineers (ITE), *Trip Generation, 11th Edition, 2021*

2 Assumes commercial land use consists of 12,000 SF of general commercial and 3,000 SF of fast food restaurant with drive-through. LOS = Level of Service

3 Based on assumed project operations, 40% of trucks would be 2-axle, 10% would be 3-axle, and 50% would be 4+-axle

4 Vehicle mix and percent from SCAQMD Warehouse Truck Trip Study Data Results and Usage, July 17, 2014.

5 Passenger Car Equivalent (PCE) factors from the San Bernardino County CMP, Appendix B - Guidelines for CMP Traffic Impact Analysis Reports in San Bernardino County, 2016.

6 Charging Station Assumptions:

Truck wash and truck maintenance facilities are ancillary to the Charging Station and will be used by trucks already on site. These land uses are not anticipated to generate additional trips, and are therefore not included in the trip generation table.

EV Autos- 8 DC Fast chargers					
Count	8				
Max rate (kw)	250				
Avg Battery Capacity (kWh)	75				
Avg Amount Charged	70%				
kWh Charged / Visit	52.5				
Fast Charger Dwell Time (hrs)	0.21				
Theoretical Max (auto/hr)	38.10				
Theoretical Maximum (vehicle/day)	914.29				
Average Utilization	24%				
Average vehicles per day	219.43	438.86	daily trips		
AM Peak, equal split, 6% of daily total occurs during AM peak	6%	Based on ITE peak hour rates for truck stop			
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	7%	Based on ITE peak hour rates for truck stop			

EV Trucks- 30 DC Fast chargers (slower) + 15 DC Fast chargers					
See EV Charging Calculator tab for details	LD Trucks	MD Trucks	HD Trucks		
Total Theoretical Max / Hour	102.9	51.4	21.4		
Theoretical Maximum (vehicle/day)	2469.6	1233.6	513.6		
Average Utilization	40%	40%	40%		
Utilization Rate Avg Vehicle/Day	987.8	493.4	205.4	1686.7	
Percent of Truck Traffic (same as warehouse vehicle mix)	40.0%	10.0%	50.0%		
Vehicles/Day Based on % of Traffic	132	33	164	329	daily trips
Average Daily Trucks	263	66	329	658	daily trips
AM Peak, equal split, 6% of daily total occurs during AM peak	6%	Based on ITE peak hour rates for truck stop			
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	7%	Based on ITE peak hour rates for truck stop			

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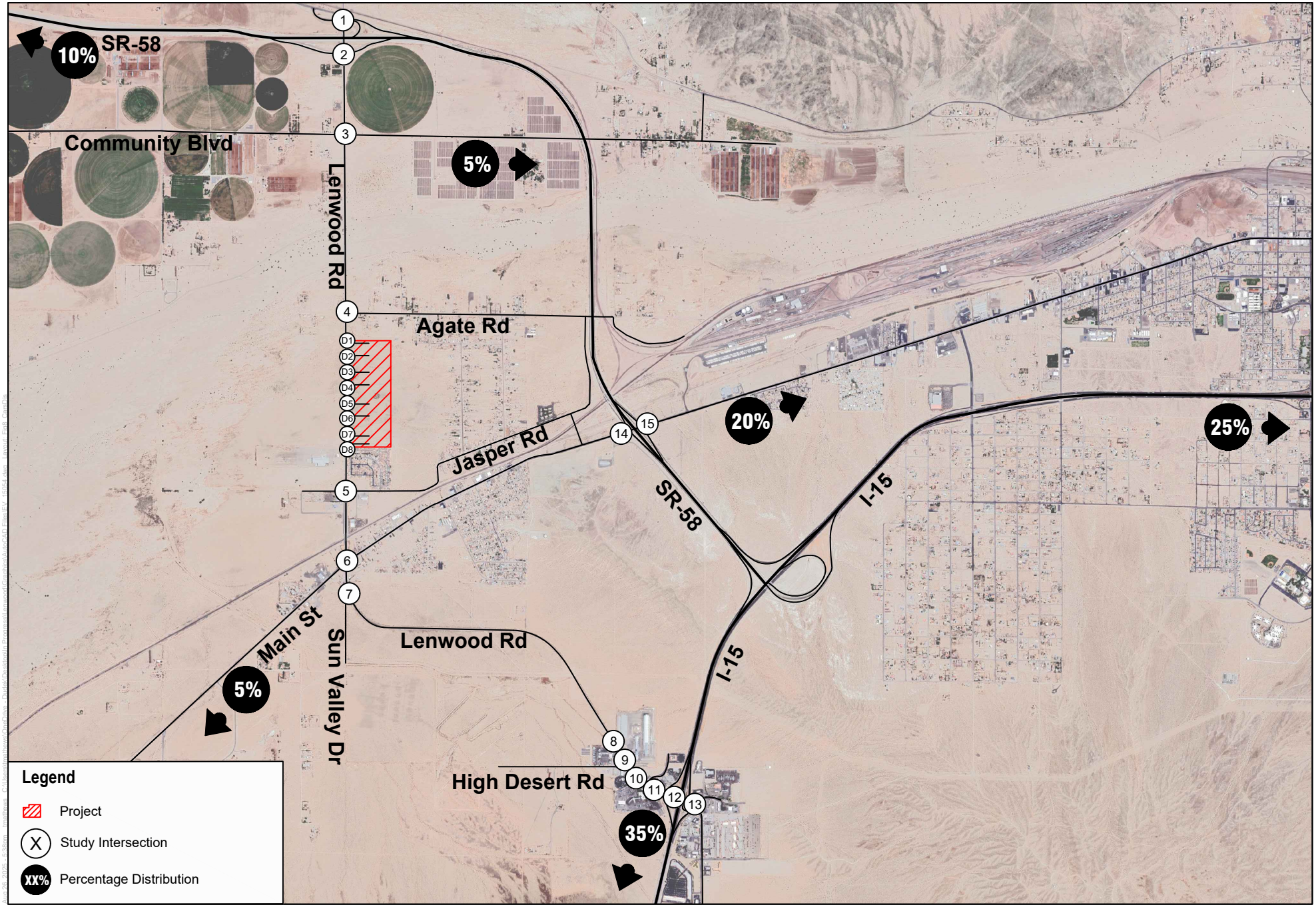

SOURCE: Google Earth 2023

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FIGURE 9

Project Passenger Vehicle Trip Distribution

EV Charging/Logistics Facility Project

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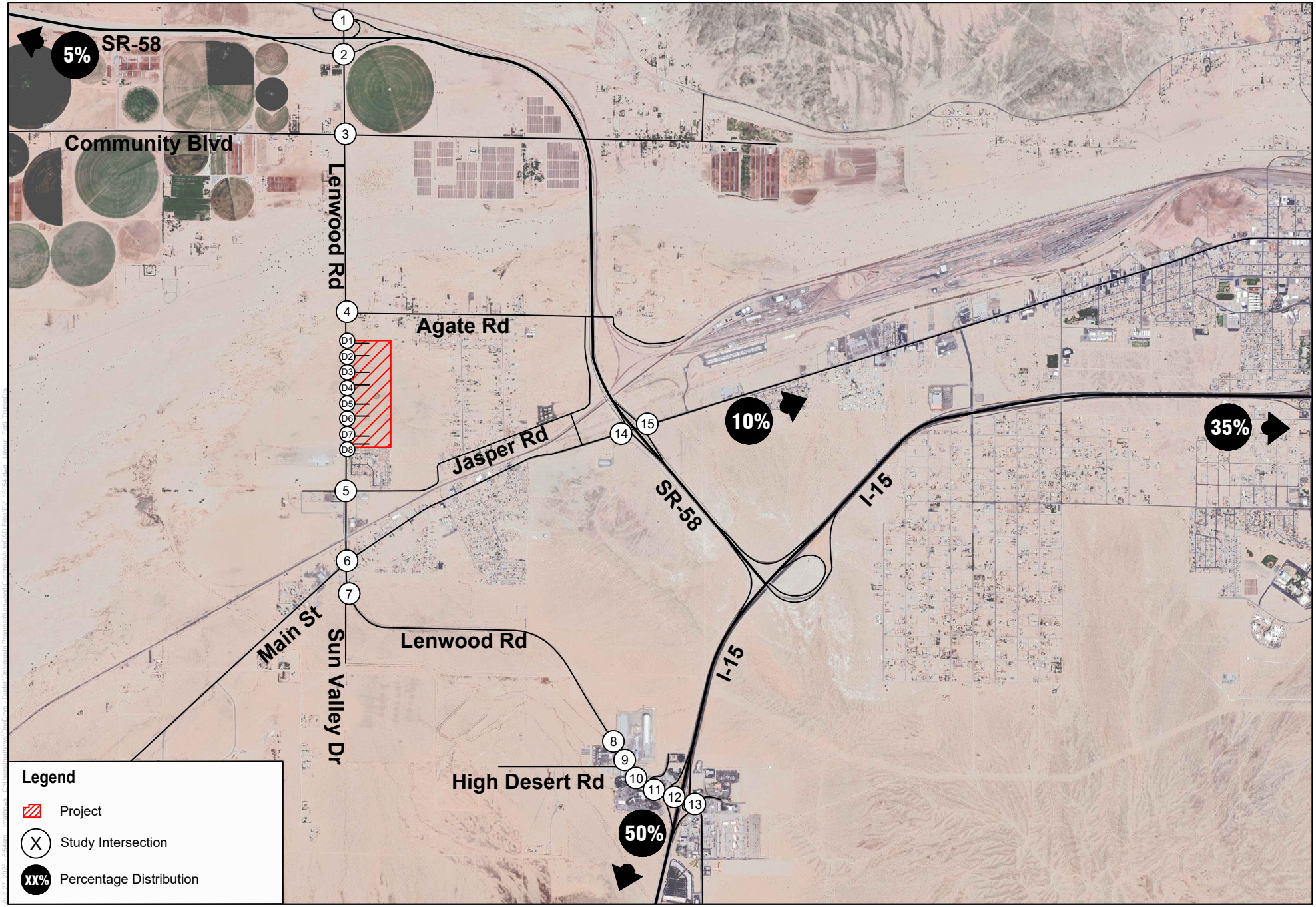

SOURCE: Google Earth 2023

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FIGURE 10

Trip Distribution - Trucks

EV Charging/Logistics Facility Project

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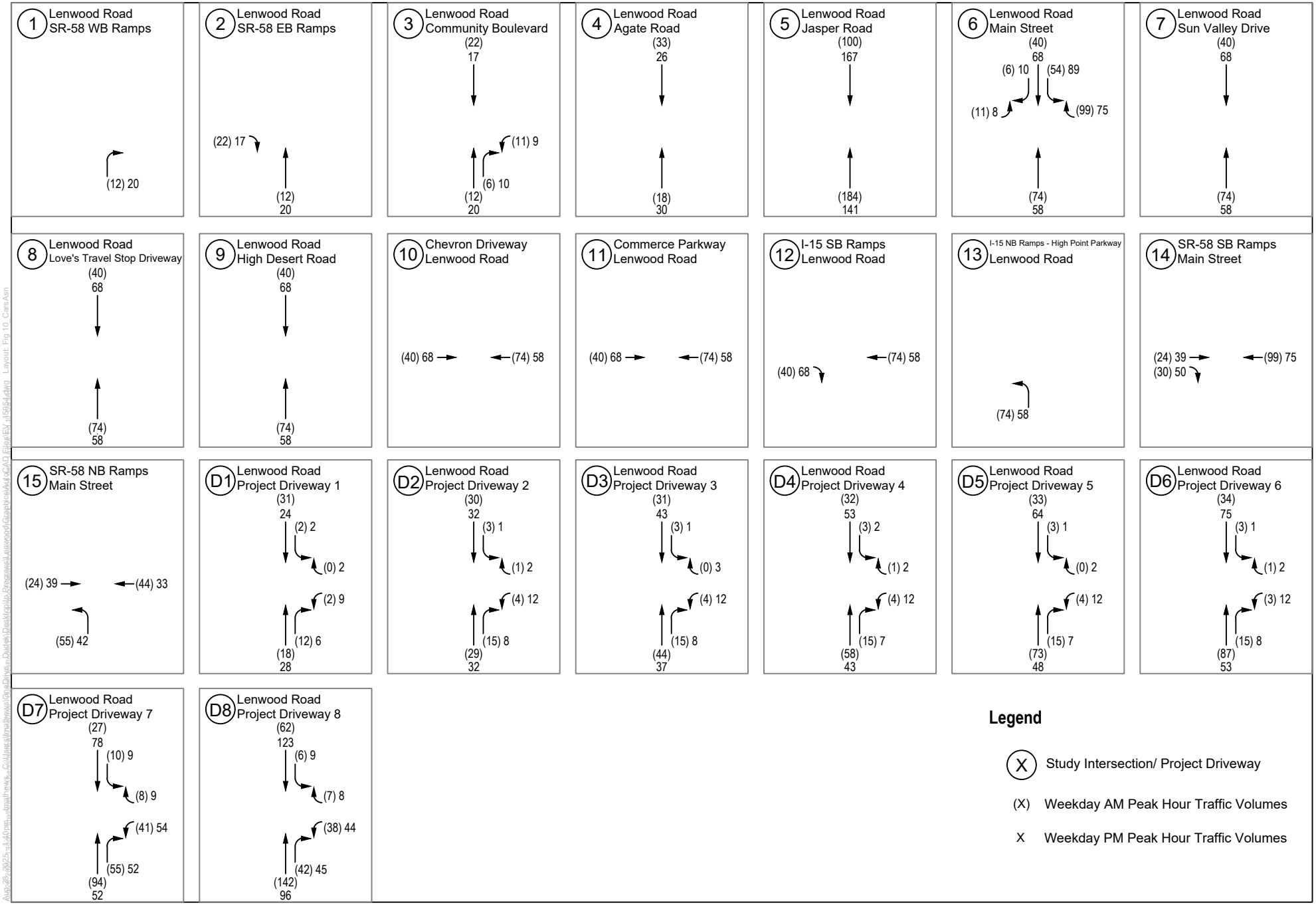

FIGURE 11

Project Passenger Vehicle Trip Assignment

EV Charging/Logistics Facility Project

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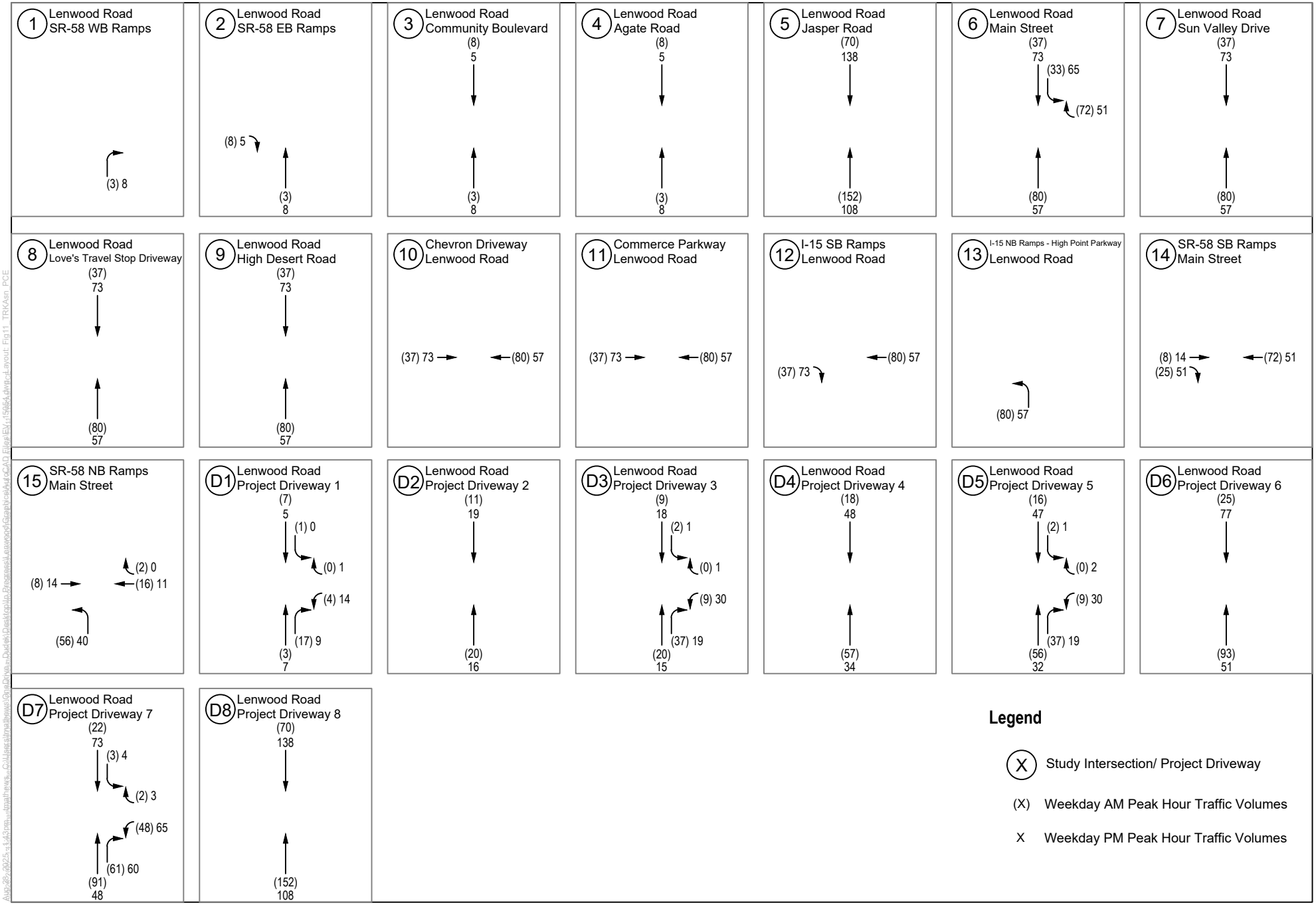

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FIGURE 12

Project Truck Trip Assignment (PCE)

EV Charging/Logistics Facility Project

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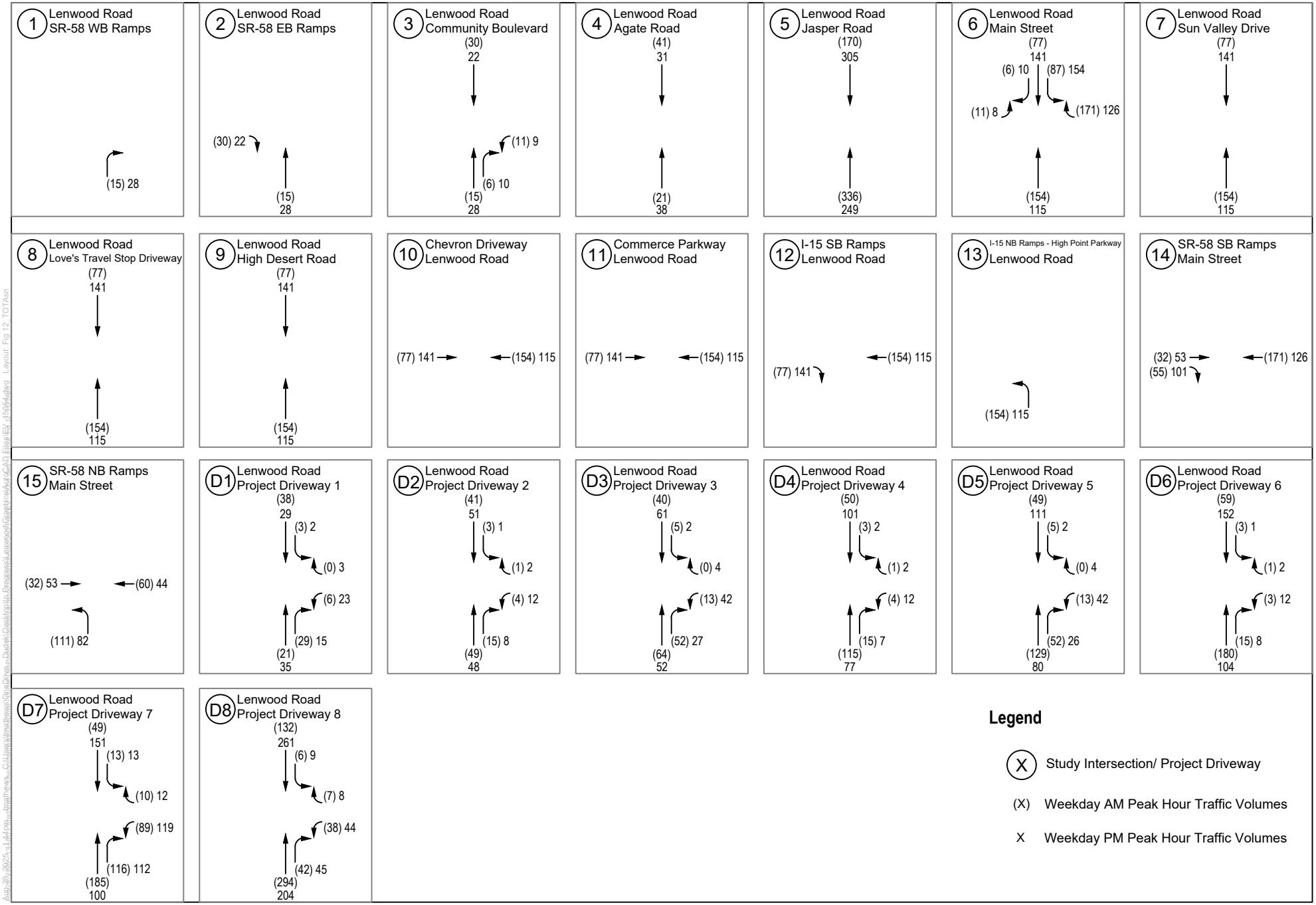

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FIGURE 13

Project Total Trip Assignment

EV Charging/Logistics Facility Project

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4 Level of Service (LOS) Methodology and Thresholds

San Bernardino County and the City of Barstow have vehicle LOS policies to ensure that proposed developments are consistent with their respective General Plans. Therefore, an LOS analysis has been prepared to evaluate the project's consistency with the County's General Plan Transportation and Mobility Element and the City's Circulation Element. Because the City does not have specific transportation impact analysis guidelines, the LOS analysis is based on the San Bernardino County Transportation Impact Study Guidelines (County Guidelines) (San Bernardino County 2019). The study intersection and roadway segments, analysis scenarios, traffic volumes, and LOS methodology and impact criteria are presented in the following section.

4.1 Study Intersections and Roadway Segments

The following intersections were selected for analysis:

1. Lenwood Road/SR-58 WB Ramps
2. Lenwood Road/SR-58 EB Ramps
3. Lenwood Road/Community Boulevard
4. Lenwood Road/Agate Road
5. Lenwood Road/Jasper Road
6. Lenwood Road/Main Street
7. Lenwood Road/Sun Valley Drive
8. Lenwood Road/Love's Travel Stop Driveway
9. Lenwood Road/High Desert Road
10. Lenwood Road/Chevron Driveway[1]
11. Lenwood Road/Commerce Parkway
12. I-15 SB Ramps/Lenwood Road
13. I-15 NB Ramps - High Point Parkway/Lenwood Road
14. SR-58 SB Ramps/Main Street
15. SR-58 NB Ramps/Main Street

In addition, the following road segment was selected for analysis:

1. Lenwood Road, south of Agate Road
2. Lenwood Road, south of Cam Del Sol

[1] For reference, the Chevron Driveway/Lenwood Road intersection is referred to as the Lenwood Road/Truck Freightliner Service Point Driveway intersection (#19) in the BIG Level of Service Assessment – Transportation Analysis.

4.2 Analysis Scenarios

Consistent with the County Guidelines, intersection LOS analyses were prepared for the weekday AM and PM peak hours at the study area intersections and road segment listed above for the following analysis scenarios:

- Existing Condition
- Background conditions (no Project) –Defined as Opening Year Conditions with ambient growth and traffic from approved projects
- Background conditions plus Project - Defined as background conditions plus traffic from the proposed project
- Cumulative Year (no project) - Defined as ambient growth to the Cumulative Horizon plus traffic approved and pending projects in the area
- Cumulative Year plus project - Defined as Cumulative No Project Conditions plus traffic from the proposed Project.

4.3 Traffic Volumes

Daily, AM and PM peak hour turning movements counts were collected at the study area intersections and roadways on May 11, 2023 during a non-holiday week while adjacent schools were in session. An annual growth rate of 1 percent (consistent with the County's Guidelines for the Desert Region) was applied to the traffic counts to reflect 2025 conditions.

The 2028 Opening Year condition represents a short-term horizon period (less than 5 years) where the proposed project is constructed and fully occupied. The peak hour traffic forecasts for the Year 2025 have been projected by increasing the traffic volumes by an annual growth rate of 1% per year, consistent with recent traffic studies conducted in the area, and adding traffic volumes generated by pending projects. These approved or pending projects are developments in the review process, but not fully approved; or, projects that have been approved, but not fully constructed or occupied. One cumulative project (BIG) was identified by the County and City in April 2025, and is further discussed in Section 6.1. The Horizon Year 2048 assumes buildout of the land uses designated in the County and the City's proposed General Plan Update, including the BIG project. General Plan Year volumes were obtained from the City of Barstow and BIG Project team. The volumes were derived from the San Bernardino Transportation Analysis Model (SBTAM) for the year 2048.

4.4 Analysis Methodology

LOS is commonly used as a qualitative description of intersection operations and roadway segments and is based on the design capacity of the intersection configuration and roadway facility, compared to the volume of traffic using the facility. The Town's intersection evaluation methodology to assess transportation impacts and traffic operating conditions for intersections is based on the latest version of the Highway Capacity Manual (HCM) methodology.

The HCM analysis methodology describes the operation of an intersection using a range of LOS from LOS A (free-flow conditions) to LOS F (severely congested conditions), based on the corresponding control delay experienced per vehicle based on the worst turning movement for unsignalized intersections.

Synchro version 12 software was used to determine intersection LOS (for all scenarios), consistent with HCM 7 methodologies. Table 3 shows the LOS values by delay ranges for unsignalized and signalized intersections under the HCM methodology.

Table 3. Levels of Service for Intersections using HCM Methodology

Level of Service	Unsignalized Intersections Control Delay (in seconds per vehicle)	Signalized Intersections Control Delay (in seconds per vehicle)
A	< 10.0	< 10.0
B	> 10.0 to < 15.0	> 10.0 to < 20.0
C	> 15.0 to < 25.0	> 20.0 to < 35.0
D	> 25.0 to < 35.0	> 35.0 to < 55.0
E	> 35.0 to < 50.0	> 55.0 to < 80.0
F	> 50.0	> 80.0

Source: HCM 7 (Transportation Research Board 2022).

Additionally, roadway segments are analyzed in the General Plan to determine their operating conditions based on the roadway segment LOS criteria based on the HCM. Table 4 identifies the traffic volume thresholds as described in the San Bernardino County Policy Plan Transportation Impact Analysis.

Table 4. Level of Service Criteria for Roadway Segments

Facility	Number of Lanes	Speed	LOS C	LOS D	LOS E
Divided Highway	6	55	72,000	81,000	100,000
	4	55	57,600	64,800	72,000
	2	55	28,800	32,400	36,000
Major Arterial/ Major Highway	6	55	48,000	54,000	60,000
		45	31,900	54,000	54,300
		40	26,700	51,500	54,300
		35	21,500	48,900	54,300
	4	45	21,400	37,200	37,900
		40	18,000	35,300	37,900
		35	14,700	33,300	37,900
	2	45	10,700	18,600	19,000
		40	9,000	17,700	19,000
		35	7,400	16,700	19,000

Source: San Bernardino County Policy Plan Transportation Impact Analysis (2019)

4.5 County General Plan Consistency Requirements

The project is located within the North Desert Region of the County. The San Bernardino County General Plan Transportation and Mobility Element (San Bernardino County 2020) contains the following policies related to transportation compliance and LOS requirements for the Desert region. The policies were used to identify the project's potential impacts on intersections and roadway LOS.

Signalized Intersection General Plan Consistency Requirements

- Any signalized study intersection in the Desert region that is operating at an LOS C or better without project traffic in which the addition of project traffic causes the intersection to degrade to an LOS D, E, or F shall identify improvements to improve operations to LOS C.
- Any signalized study intersection in the Desert region that is operating at LOS D, E, or F without project traffic where the project increases delay by 5.0 or more seconds shall identify improvements to offset the increase in delay.

Unsignalized Intersection General Plan Consistency Requirements

Consistent with the acceptable LOS for the Desert region as described in the current General Plan, the following unsignalized intersection criteria are used to identify operational deficiencies:

An operational improvement would be required if the study determines that either section a) or both sections b) and c) occur:

A. The addition of project related traffic causes the intersection to degrade from an LOS C or better to an LOS D or worse in the Desert region.

OR

B. The project adds 5.0 seconds or more of delay to an intersection that is already projected to operate without project traffic at an LOS D, E, or F in the Desert region (per Section 10.5.2 b)

AND

C. One or both of the following conditions are met:
    1. The project adds ten (10) or more trips to any minor street approach
    2. The intersection meets the peak hour traffic signal warrant after the addition of project traffic (per Section 10.5.2 c).

If the conditions above are satisfied, improvements should be identified that achieve the following:

- In the Desert region, improvements should be identified that would achieve LOS C or better for case a) above or to pre-project LOS and delay for case b) above

Roadway Segments

Consistent with the acceptable LOS for the Desert region as described in the current General Plan, the following roadway segment thresholds and improvement requirements are used to identify operational deficiencies:

- Any study roadway segment in the Desert region that is operating at an LOS C or better without project traffic in which the addition of project traffic causes the segment to degrade to an LOS D, E, or F should identify improvements to achieve LOS D.
- Any roadway segment that operates unacceptably in the no project scenario where the project adds traffic in excess of 5% of the roadway capacity (e.g., a volume-to-capacity ratio increase of 0.05) should identify improvements to add capacity to the segment

4.5.1 Improvements for Transportation Impacts

Per the County's TIS Guidelines, improvements for project level impacts should focus on providing operations that offset the project impact (e.g. achieve a "no project" level of service). Improvements could consist of signal timing improvements, lane restriping, or new lanes to study facilities. Cumulative impacts should include a fair-share contribution toward achieving acceptable levels of service as noted below. Alternatively, if a cumulative location is included in an existing traffic impact fee program, payment of those fees would constitute an appropriate contribution.

Fair Share Contribution

For improvements that are needed where the applicant is not solely responsible, a fair share computation should be computed and reported for each such mitigation. The fair share amount should be calculated using the following formula:

Project Fair Share = Project Trips / (Project Trips + Future Development Trips) X 100%

4.6 City of Barstow

The City of Barstow Circulation Element contains the following policies related to LOS:

> Policy 1.A: Continue to utilize Capital Improvement Program and Measure I funds to maintain and enhance the city's roadway network, retaining a minimum level of service of "C" along all roadways and at all intersections.

4.7 Caltrans Transportation Impact Study Guide

As the owner and operator of the State Highway System, Caltrans, implements established state planning priorities in all functional plans, programs, and activities. Caltrans has the responsibility to coordinate and consult with local jurisdictions when proposed local land use planning and development may impact state highway facilities. To comply with SB 743 implementation, the Caltrans Transportation Impact Study Guide (May 2020), replaced the Guide for the Preparation of Traffic Impact Studies (Caltrans 2002). Per the 2020 Transportation Impact Study Guide, Caltrans' primary review focus is VMT, replacing LOS as the metric used in CEQA transportation analyses. Caltrans recommends use of OPR's recommended thresholds and guidance on methods of VMT assessment found in OPR's Technical Advisory (OPR 2018). In addition to VMT, Caltrans has developed an Interim Land Development and Intergovernmental Review Safety Review Practitioners Guidance (July 2020) which may request a targeted operational and safety analysis to address a specific geometric or operational issue related to the State Highway System and connections with the State Highway System (Caltrans 2020). Since no operational issues (e.g., LOS impacts) were identified at the I-15 or SR-58 ramps, no further analysis is required.

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5 Existing (2025) Conditions Analysis

This section details the existing intersection and roadway segment operations within the study area. Existing traffic controls and geometrics at all study intersections are shown in Figure 14 and existing peak hour traffic volumes are shown in Figure 15. Raw traffic counts are provided in Appendix B and all synchro LOS worksheets are in Appendix C.

5.1 Intersection Operations

Table 5 summarizes the results of the intersection analysis for the AM and PM peak hours for existing conditions. As shown in the table, all study intersections are currently operating at satisfactory levels of service (LOS C or better) under existing conditions.

Table 5. Existing Weekday Peak Hour Intersection LOS

No.	Intersection	Jurisdiction	Traffic Control	Existing			
				AM Peak		PM Peak	
				Delay[1]	LOS	Delay[1]	LOS
1	Lenwood Rd./SR-58 WB Ramps	County/ Caltrans	AWSC	7.1	A	7.2	A
2	Lenwood Rd./SR-58 EB Ramps	County/ Caltrans	AWSC	7.6	A	7.3	A
3	Lenwood Rd./Community Blvd.	County	TWSC	9.5	A	9.8	A
4	Lenwood Rd./Agate Rd.	Barstow/ County	TWSC	9.5	A	9.6	A
5	Lenwood Rd./Jasper Rd.	Barstow/County	TWSC	10.5	B	11.8	B
6	Lenwood Rd./Main St.	Barstow/County	Signal	14.0	B	13.0	B
7	Lenwood Rd./Sun Valley Drive	Barstow	OWSC	9.8	A	9.1	A
8	Lenwood Rd./Love's Travel Stop Driveway	Barstow	TWSC	10.1	B	11.3	B
9	Lenwood Rd./High Desert Rd.	Barstow	TWSC	10.3	B	11.5	B
10	Lenwood Rd./Chevron Driveway	Barstow	OWSC	16.7	C	21.2	C
11	Commerce Parkway/Lenwood Rd.	Barstow	Signal	15.0	B	14.6	B
12	I-15 SB Ramps/Lenwood Rd.	Barstow/ Caltrans	Signal	6.9	A	7.6	A
13	I-15 NB Ramps - High Point Pkwy/Lenwood Rd.	Barstow/ Caltrans	Signal	10.5	B	12.5	B
14	SR-58 SB Ramps/Main St.	Barstow/ Caltrans	Signal	7.5	A	6.8	A
15	SR-58 NB Ramps/Main St.	Barstow/ Caltrans	Signal	6.7	A	7.8	A

Source: Appendix C
Notes: OWSC = one-way-stop-control; TWSC = two-way stop-control; AWSC = all-way stop-control; LOS = level of service; **Bold:** Exceeds LOS C threshold
[1] Delay in seconds per vehicle; highest movement delay is reported for OWSC/TWSC intersections.

5.2 Roadway Segment Operations

Table 6 shows the results of the roadway segment LOS analysis. As shown below, Lenwood Road is operating within the acceptable LOS C threshold under Existing conditions.

Table 6. Existing ADT Roadway Segment Level of Service

No	Roadway Segment	Classification	Speed	No. of Lanes	ADT	LOS C Threshold (ADT)	Threshold Exceeded?
Lenwood Road							
1	South of Agate Road	Major Highway	55 MPH	2	1,979	10,700	No
2	South of Cam Del Sol	Major Highway	55 MPH	2	1,940	10,700	No

Notes: MPH = miles per hour; ADT = average daily traffic; **Bold**: Exceeds "Acceptable" threshold

1 LOS threshold determined from Table 4 in Section 4.4, Analysis Methodology. No ADT threshold is provided for a 2-lane Major Highway with a posted speed of 55 MPH. Therefore, the ADT threshold is based on a 2-lane Major Highway with a posted speed of 45 MPH.

2 Volume provided from ADT counts conducted on May 11, 2023 and grown by 1% per year to reflect 2025 conditions.

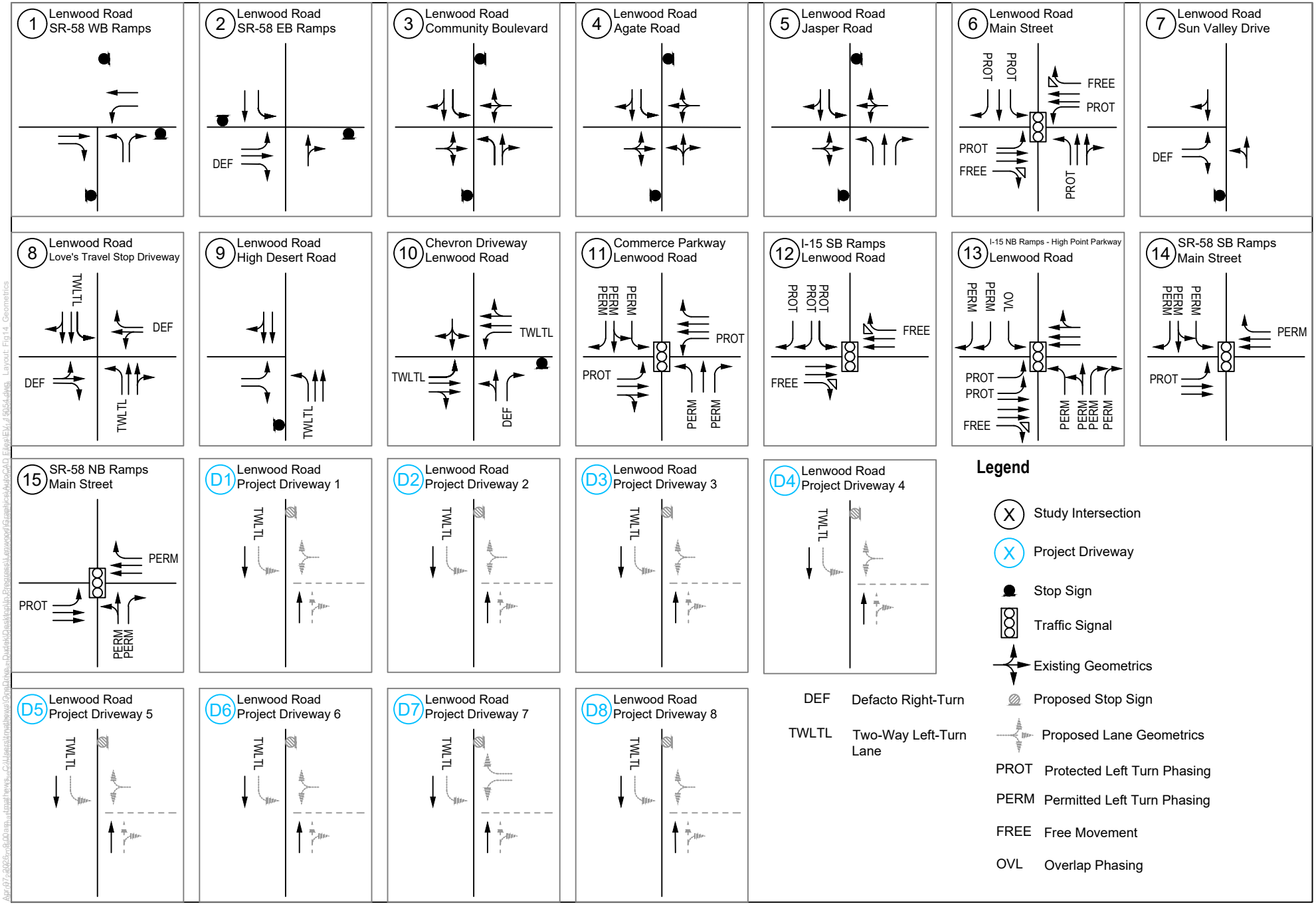

FIGURE 14

Existing Intersection Controls and Geometrics

EV Charging/Logistics Facility Project

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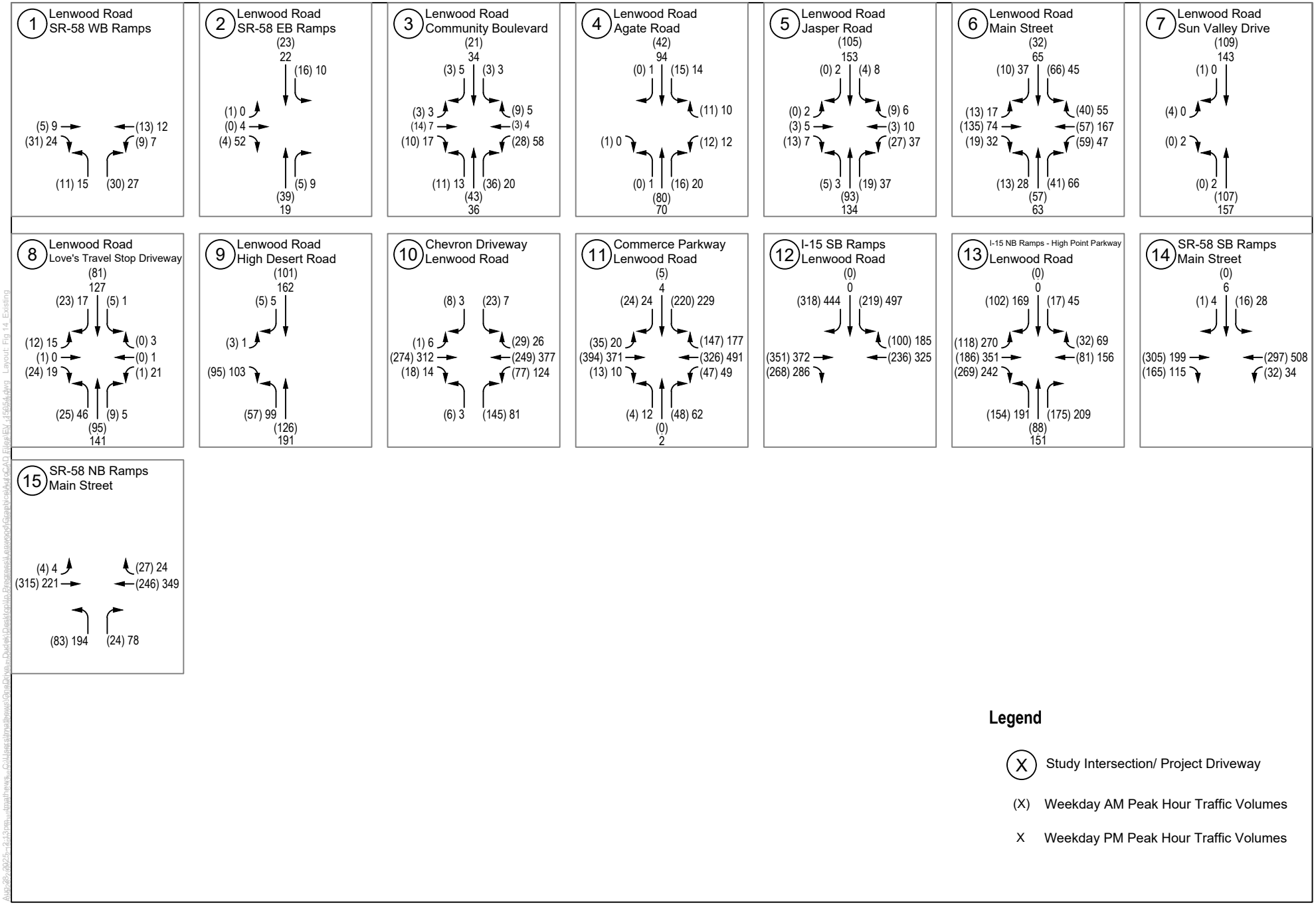

SOURCE: AIMTD 2023

FIGURE 15

Existing Peak Hour Traffic Volumes

EV Charging/Logistics Facility Project

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6 Opening Year (2028) Analysis

This section presents the results of a cumulative condition analysis that was conducted for a short-term horizon year (Year 2028) assuming the proposed project is constructed and fully occupied.

6.1 Cumulative Projects

Cumulative projects are projects that are proposed and in the development review process, but not yet fully approved; or projects that have been approved, but not fully constructed or occupied. The following project listed in Table 7 was provided per communication with City staff and is included in the Opening Year analysis.

Table 7. Cumulative Projects

No	Name	Location	Description
1	Barstow International Gateway (BIG)	Generally, west of Lenwood Road and north of Main Street	4,500-acre new integrated rail facility on the west side of Barstow, consisting of a rail yard, intermodal facility and warehouses for transloading freight from international containers to domestic containers

Source: Correspondence with the City of Barstow and BIG project team, April 2025

The project trip generation for the BIG project was obtained from the City of Barstow and BIG project team and is presented in Table 8. As shown in Table 8, the BIG project would generate approximately 10,213 daily PCE trips, 714 AM peak hour PCE trips, and 859 PM peak hour PCE trips during the 2028 Opening Year. Figure 16 shows the location of the cumulative project and Figure 17 shows the traffic volumes distributed throughout the network.

Table 8. Cumulative Project Trip Generation (BIG)

Land Use	User	Daily	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Transload Warehouse (21,000 SF)	Passenger Cars	6,962	306	48	354	137	394	531
	Trucks	195	9	9	18	4	5	9
	Total	**7,157**	**315**	**57**	**372**	**141**	**399**	**540**
	Truck PCE	488	23	23	45	10	13	23
	Total PCE	**7,450**	**329**	**71**	**399**	**147**	**407**	**554**
Rail Yard (43,000 revenue containers/year)	Passenger Cars	1,765	132	132	265	133	132	265
	IMF Trucks	399	12	8	20	10	6	16
	Total	**2,164**	**145**	**140**	**285**	**143**	**138**	**281**
	Truck PCE	998	30	20	50	25	15	40
	Total PCE	**2,763**	**163**	**152**	**315**	**158**	**147**	**305**
Passenger Cars Total		*8,727*	*439*	*180*	*619*	*270*	*526*	*796*
Truck Total (PCE)		*1,486*	*53*	*43*	*95*	*35*	*28*	*63*
Total (PCE)		**10,213**	**492**	**223**	**714**	**305**	**554**	**859**

Notes:
[1] Trip generation from BIG Project team, September 2025.

6.2 Intersection Operations

The existing intersection configurations have been assumed to be preserved under the Opening Year (2028) conditions. Figure 18 illustrates the Opening Year (2028) (no project) traffic volumes for the peak hour conditions and Figure 19 illustrates the Opening Year (2028) (with project) traffic volumes for the peak hour conditions.

Table 9 summarizes the results of the Opening Year (2028) intersection analysis for the AM and PM peak hours, with and without the project. As shown in the table, all of the study area intersections are forecast to operate at satisfactory levels of service (LOS C or better) under Opening Year (2028) conditions with and without project traffic, except for the following intersections:

			AM Peak hour		PM Peak Hour	
			Without Project	With Project	Without Project	With Project
#5	Lenwood Rd./Jasper Rd	TWSC	LOS E	LOS F	LOS F	same
#10	Lenwood Rd./Chevron Driveway	TWSC	LOS D	LOS E	LOS E	LOS F

To facilitate access to the proposed BIG transload warehouse center, BIG proposes realigning Hinkley Road to connect with the west leg of the Lenwood Road/Jasper Road intersection and installing a traffic signal, widening the roadway and restriping at the intersection. Signalization is warranted under the Opening Year (2028) conditions (Kimley Horn 2025) and would be implemented by BIG. With signalization and restriping, the intersection would operate at acceptable levels of service.

Recommended improvements at the Lenwood Road/Chevron Driveway include installing a signal and clustering the intersection with the existing signal at Commerce Parkway so they function as a combined system with a single controller. This configuration is recommended due to the proximity of the intersections, which supports synchronized signal operations and improved traffic flow (Kimley Horn 2025). The intersection would operate at LOS C or better with the improvements. The project would pay its fair share contribution toward the cost of the improvements.

Table 9. Opening Year (2028) Weekday Peak Hour Intersection LOS (with and without Project)

No.	Intersection	Traffic Control	Opening Year (2028)				Opening Year (2028) Plus Project				Change in Delay (Sec.)		Threshold Exceeded?	
			AM Peak		PM Peak		AM Peak		PM Peak					
			Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	AM	PM	AM	PM
1	Lenwood Rd./ SR-58 WB Ramps	AWSC	7.2	A	7.6	A	7.3	A	7.6	A	0.1	0.0	No	No
2	Lenwood Rd./SR-58 EB Ramps	AWSC	7.7	A	7.9	A	7.9	A	8.3	A	0.2	0.4	No	No
3	Lenwood Rd./Community Blvd.	TWSC	10.5	B	11.0	B	11.1	B	11.8	B	0.6	0.8	No	No
4	Lenwood Rd./Agate Rd.	TWSC	12.2	B	12.2	B	13.2	B	13.1	B	1.0	0.9	No	No
5	Lenwood Rd./Jasper Rd.	TWSC	**43.5**	**E**	**94.6**	**F**	**>100**	**F**	**>100**	**F**	**>100**	**>100**	**Yes**	**Yes**
6	Lenwood Rd./Main St.	Signal	14.8	B	16.0	B	16.8	B	18.1	B	2.0	2.1	No	No
7	Lenwood Rd./Sun Valley Dr.	OWSC	14.4	B	15.0	C	19.4	C	20.0	C	5.0	5.0	No	No
8	Lenwood Rd./Love's Travel Stop Driveway	TWSC	13.9	B	15.7	C	17.8	C	20.7	C	3.9	5.0	No	No
9	Lenwood Rd./High Desert Rd.	TWSC	12.5	B	14.1	B	13.9	B	16.1	C	1.4	2.0	No	No
10	Lenwood Rd./Chevron Driveway	OWSC	**25.5**	**D**	**45.6**	**E**	**36.8**	**E**	**73.0**	**F**	**11.3**	**27.4**	**Yes**	**Yes**
11	Commerce Parkway/Lenwood Rd.	Signal	15.1	B	15.9	B	15.0	B	16.0	B	-0.1	0.1	No	No
12	I-15 SB Ramps/Lenwood Rd.	Signal	7.8	A	9.0	A	8.3	A	9.4	A	0.5	0.4	No	No
13	I-15 NB Ramps - High Point Pkwy/Lenwood Rd.	Signal	10.5	B	12.8	B	10.3	B	12.9	B	-0.2	0.1	No	No
14	SR-58 SB Ramps/Main St.	Signal	7.3	A	6.9	A	7.0	A	6.9	A	-0.3	0.0	No	No
15	SR-58 NB Ramps/Main St.	Signal	6.9	A	7.8	A	7.8	A	8.6	A	0.9	0.8	No	No
16	Lenwood Rd./Driveway 1	TWSC	*Does Not Exist*				10.9	B	11.4	B	N/A		No	No
17	Lenwood Rd./Driveway 2	TWSC	*Does Not Exist*				10.6	B	11.3	B	N/A		No	No

Table 9. Opening Year (2028) Weekday Peak Hour Intersection LOS (with and without Project)

No.	Intersection	Traffic Control	Opening Year (2028)				Opening Year (2028) Plus Project				Change in Delay (Sec.)		Threshold Exceeded?	
			AM Peak		PM Peak		AM Peak		PM Peak					
			Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	AM	PM	AM	PM
18	Lenwood Rd./Driveway 3	TWSC	*Does Not Exist*				11.4	B	12.1	B	N/A		No	No
19	Lenwood Rd./Driveway 4	TWSC	*Does Not Exist*				11.0	B	11.8	B	N/A		No	No
20	Lenwood Rd./Driveway 5	TWSC	*Does Not Exist*				11.9	B	12.6	B	N/A		No	No
21	Lenwood Rd./Driveway 6	TWSC	*Does Not Exist*				11.3	B	12.3	B	N/A		No	No
22	Lenwood Rd./Driveway 7	TWSC	*Does Not Exist*				14.2	B	16.2	C	N/A		No	No
23	Lenwood Rd./Driveway 8	TWSC	*Does Not Exist*				17.2	C	15.1	C	N/A		No	No

Source: Appendix C
Notes: OWSC = one-way-stop-control; TWSC = two-way stop-control; AWSC = all-way stop-control; LOS = level of service; **Bold:** Exceeds LOS C threshold
[1] Delay in seconds per vehicle; highest movement delay is reported for TWSC intersections.

6.3 Roadway Segment Operations

Table 10 shows the results of the roadway segment LOS analysis. As shown below, Lenwood Road is forecast to operate at acceptable conditions under Opening Year (2028) conditions with and without the addition of project traffic.

Table 10. Opening Year (2028) ADT Roadway Segment Level of Service

No	Roadway Segment	Classification	Speed	No. of Lanes	2028 ADT	2028 + Project ADT	LOS C Threshold (ADT)	Threshold Exceeded?
Lenwood Road								
1	South of Agate Road	Major Highway	55 MPH	2	2,037	2,836	10,700	No
2	South of Cam Del Sol	Major Highway	55 MPH	2	1,997	8,864	10,700	No

Notes: MPH = miles per hour; ADT = average daily traffic; **Bold**: Exceeds "Acceptable" threshold

1 LOS threshold determined from Table 4 in Section 4.4, Analysis Methodology. No ADT threshold is provided for a 2-lane Major Highway with a posted speed of 55 MPH. Therefore, the ADT threshold is based on a 2-lane Major Highway with a posted speed of 45 MPH.

2 Volume provided from ADT counts conducted on May 11, 2023 and grown by 1% per year to reflect 2028 conditions.

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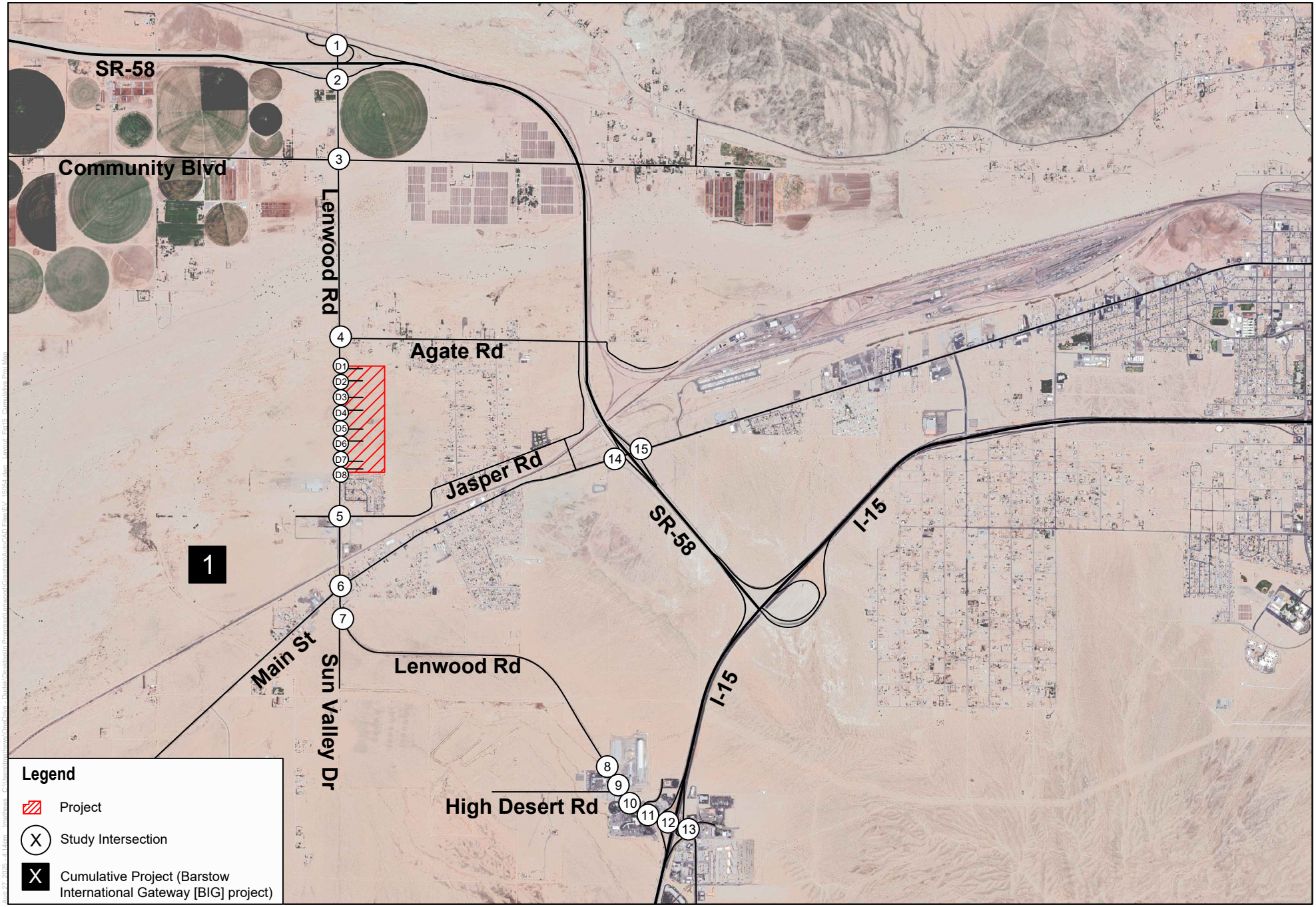

SOURCE: Google Earth 2023

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FIGURE 16

Cumulative Project Locations

EV Charging/Logistics Facility Project

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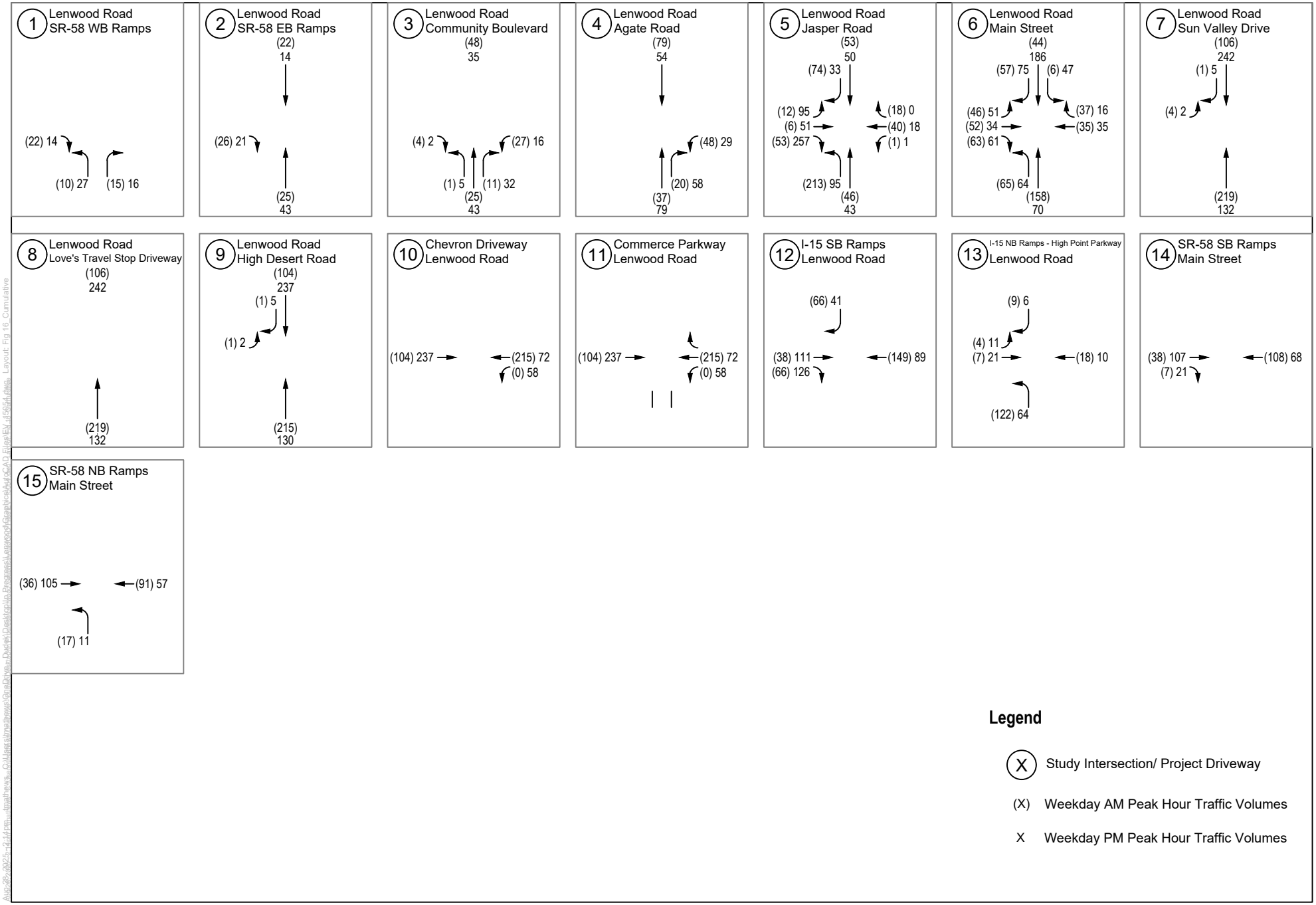

FIGURE 17

Cumulative Project Peak Hour Traffic Volumes (PCE)

EV Charging/Logistics Facility Project

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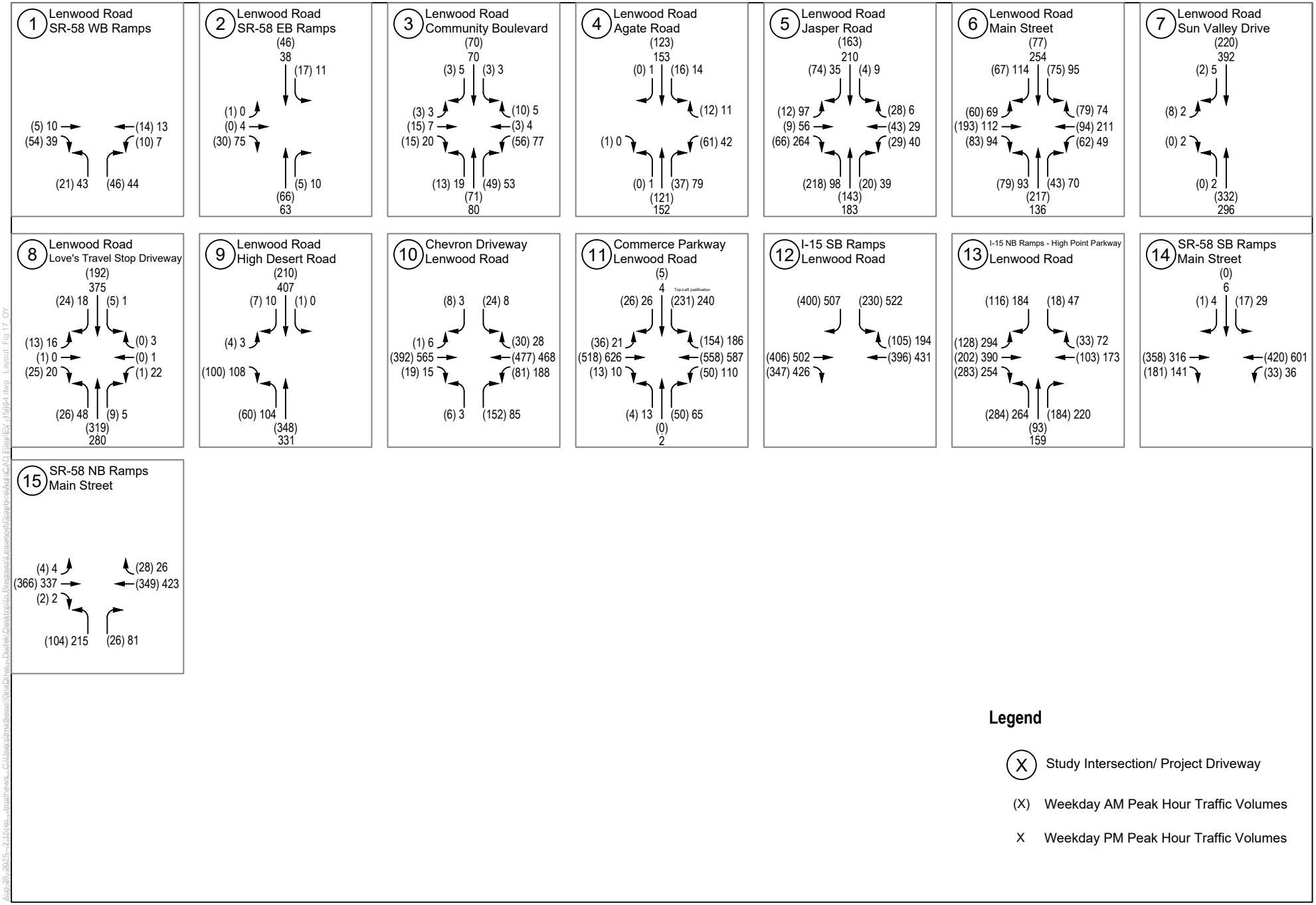

FIGURE 18

Opening Year (2028) Peak Hour Traffic Volumes (PCE)

EV Charging/Logistics Facility Project

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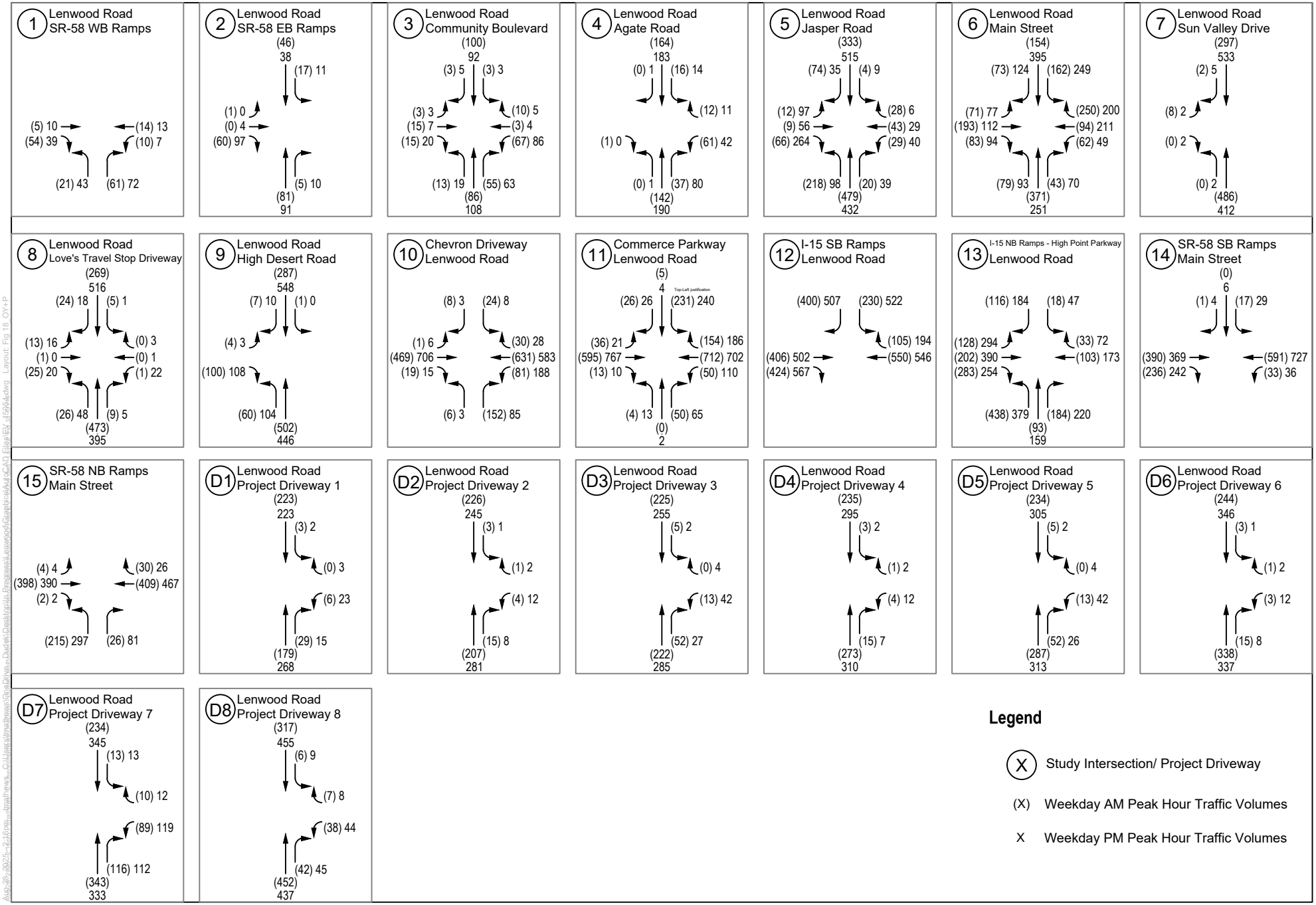

FIGURE 19

Opening Year (2028) plus Project Peak Hour Traffic Volumes (PCE)

EV Charging/Logistics Facility Project

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7 Horizon Year (2048)

This section describes conditions within the study area in the Horizon Year 2048.

7.1 Intersection Operations

The existing intersection configurations have been assumed to be preserved under the Horizon Year (2048) conditions. Figure 20 illustrates the Horizon Year (2048) (no project) traffic volumes for the peak hour conditions and Figure 21 illustrates the Horizon Year (2048) (with project) traffic volumes for the peak hour conditions.

Table 11 summarizes the results of the Horizon Year (2048) intersection analysis (with and without the project) for the AM and PM peak hours. As shown in the table, all study area intersections are forecast to operate at satisfactory levels of service (LOS C or better) under Horizon Year (2048) conditions with and without project traffic, except for the following intersections.

			AM Peak hour		PM Peak Hour	
			Without Project	With Project	Without Project	*With Project*
▪ #5	Lenwood Rd./Jasper Rd	TWSC	LOS F	same	LOS F	same
▪ #6	Lenwood Rd./Main St.	Signal	LOS D	same	LOS F	same
▪ #7	Lenwood Rd./Sun Valley Dr.	OWSC	LOS C	LOS D	LOS E	LOS F
▪ #8	Lenwood Rd./Love's Travel Stop Dwy	No control	LOS D	LOS E	LOS F	same
▪ #9	Lenwood Rd./High Desert Rd.	OWSC	LOS C	same	LOS C	LOS D
▪ #10	Lenwood Rd./Chevron Driveway	OWSC	LOS E	LOS F	LOS F	same

As previously noted, the proposed Hinkley Road/Jasper Road/Lenwood Road intersection will be signalized as part of the proposed BIG access improvements. In addition, the BIG project includes partial vacation of Sun Valley Drive which would result in the removal of the Lenwood Road/Sun Valley Road intersection with the BIG project. Therefore, no improvements are required at this intersection.

Improvements related to signalization and/or lane geometrics for the remaining intersections are identified in Section 9.

Table 11. Horizon Year (2048) Weekday Peak Hour Intersection LOS (with and without Project)

No.	Intersection	Traffic Control	Horizon Year (2048)				Horizon Year (2048) Plus Project				Change in Delay (Sec.)		Threshold Exceeded?	
			AM Peak		PM Peak		AM Peak		PM Peak					
			Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	AM	PM	AM	PM
1	Lenwood Rd./ SR-58 WB Ramps	AWSC	7.3	A	7.9	A	7.4	A	7.9	A	0.1	0.0	No	No
2	Lenwood Rd./SR-58 EB Ramps	AWSC	7.8	A	8.0	A	7.9	A	8.3	A	0.1	0.3	No	No
3	Lenwood Rd./Community Blvd.	TWSC	10.4	B	11.8	B	11.0	B	12.6	B	0.6	0.8	No	No
4	Lenwood Rd./Agate Rd.	TWSC	10.5	B	12.7	B	11.2	B	13.9	B	0.7	1.2	No	No
5	**Lenwood Rd./Jasper Rd.**	TWSC	**62.4**	**F**	**>100**	**F**	**>100**	**F**	**>100.0**	**F**	**100+**	**100+**	**Yes**	**Yes**
6	**Lenwood Rd./Main St.**	Signal	**44.8**	**D**	**>100**	**F**	**50.4**	**D**	**>100**	**F**	5.6	6.6	**Yes**	**Yes**
7	**Lenwood Rd./Sun Valley Dr.**	OWSC	24.8	C	**43.9**	**E**	**34.8**	**D**	**66.9**	**F**	10.0	23.0	**Yes**	**Yes**
8	**Lenwood Rd./Love's Travel Stop Driveway**	TWSC	**27.4**	**D**	**51.9**	**F**	**37.0**	**E**	**81.1**	**F**	9.6	29.2	**Yes**	**Yes**
9	**Lenwood Rd./High Desert Rd.**	TWSC	17.5	C	22.5	C	19.8	C	**27.2**	**D**	2.3	4.7	No	**Yes**
10	**Lenwood Rd./Chevron Driveway**	OWSC	**43.4**	**E**	**94.8**	**F**	**69.1**	**F**	**>100**	**F**	25.7	60.6	**Yes**	**Yes**
11	Commerce Parkway/Lenwood Rd.	Signal	15.1	B	17.8	B	15.1	B	18.9	B	0.0	1.1	No	No
12	I-15 SB Ramps/Lenwood Rd.	Signal	9.6	A	13.5	B	10.3	B	13.6	B	0.7	0.1	No	No
13	I-15 NB Ramps - High Point Pkwy/Lenwood Rd.	Signal	14.1	B	17.9	B	14.0	B	18.7	B	-0.1	0.8	No	No
14	SR-58 SB Ramps/Main St.	Signal	8.1	A	7.3	A	7.7	A	7.3	A	-0.4	0.0	No	No
15	SR-58 NB Ramps/Main St.	Signal	7.4	A	8.1	A	8.0	A	8.9	A	0.6	0.8	No	No
16	Lenwood Rd./Driveway 1	TWSC	Does Not Exist				11.0	B	11.7	B	N/A		No	No
17	Lenwood Rd./Driveway 2	TWSC	Does Not Exist				10.7	B	11.6	B	N/A		No	No
18	Lenwood Rd./Driveway 3	TWSC	Does Not Exist				11.5	B	12.4	B	N/A		No	No

Table 11. Horizon Year (2048) Weekday Peak Hour Intersection LOS (with and without Project)

No.	Intersection	Traffic Control	Horizon Year (2048)				Horizon Year (2048) Plus Project				Change in Delay (Sec.)		Threshold Exceeded?	
			AM Peak		PM Peak		AM Peak		PM Peak					
			Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	Delay[1]	LOS	AM	PM	AM	PM
19	Lenwood Rd./Driveway 4	TWSC	Does Not Exist				11.1	B	12.1	B	N/A		No	No
20	Lenwood Rd./Driveway 5	TWSC	Does Not Exist				11.9	B	12.9	B	N/A		No	No
21	Lenwood Rd./Driveway 6	TWSC	Does Not Exist				11.4	B	12.5	B	N/A		No	No
22	Lenwood Rd./Driveway 7	TWSC	Does Not Exist				14.1	B	16.6	C	N/A		No	No
23	Lenwood Rd./Driveway 8	TWSC	Does Not Exist				13.8	B	15.3	C	N/A		No	No

Source: Appendix C
Notes: OWSC = one-way-stop-control; TWSC = two-way stop-control; AWSC = all-way stop-control; LOS = level of service; **Bold:** Exceeds LOS C threshold
[1] Delay in seconds per vehicle; highest movement delay is reported for TWSC intersections.

7.2 Roadway Segment Operations

Table 12 shows the results of the roadway segment LOS analysis. As shown below, Lenwood Road is forecast to operate at acceptable LOS under Horizon Year (2048) conditions, with and without the addition of project traffic.

Table 12. Horizon Year (2048) ADT Roadway Segment Level of Service

No	Roadway Segment	Classification	Speed	No. of Lanes	2048 ADT	2048 + Project ADT	LOS C Threshold (ADT)[1]	Threshold Exceeded?
Lenwood Road								
1	South of Agate Road	Major Highway	55 MPH	4	8,881[2]	9,680	21,400[3]	No
2	South of Cam Del Sol	Major Highway	55 MPH	4	9,913[2]	16,580	21,400[3]	No

Notes: MPH = miles per hour; ADT = average daily traffic; **Bold**: Exceeds "Acceptable" threshold

1 LOS threshold determined from Table 4 in Section 4.4, Analysis Methodology. No ADT threshold is provided for a 4-lane Major Highway with a posted speed of 55 MPH. Therefore, the ADT threshold is based on a 4-lane Major Highway with a posted speed of 45 MPH.

2 Volume provided from Appendix 5.15 BIG-2: Level of Service Assessment – Transportation Analysis (Fehr & Peers, November 2025).

3 Lenwood Road is proposed to be widened under 2048 conditions.

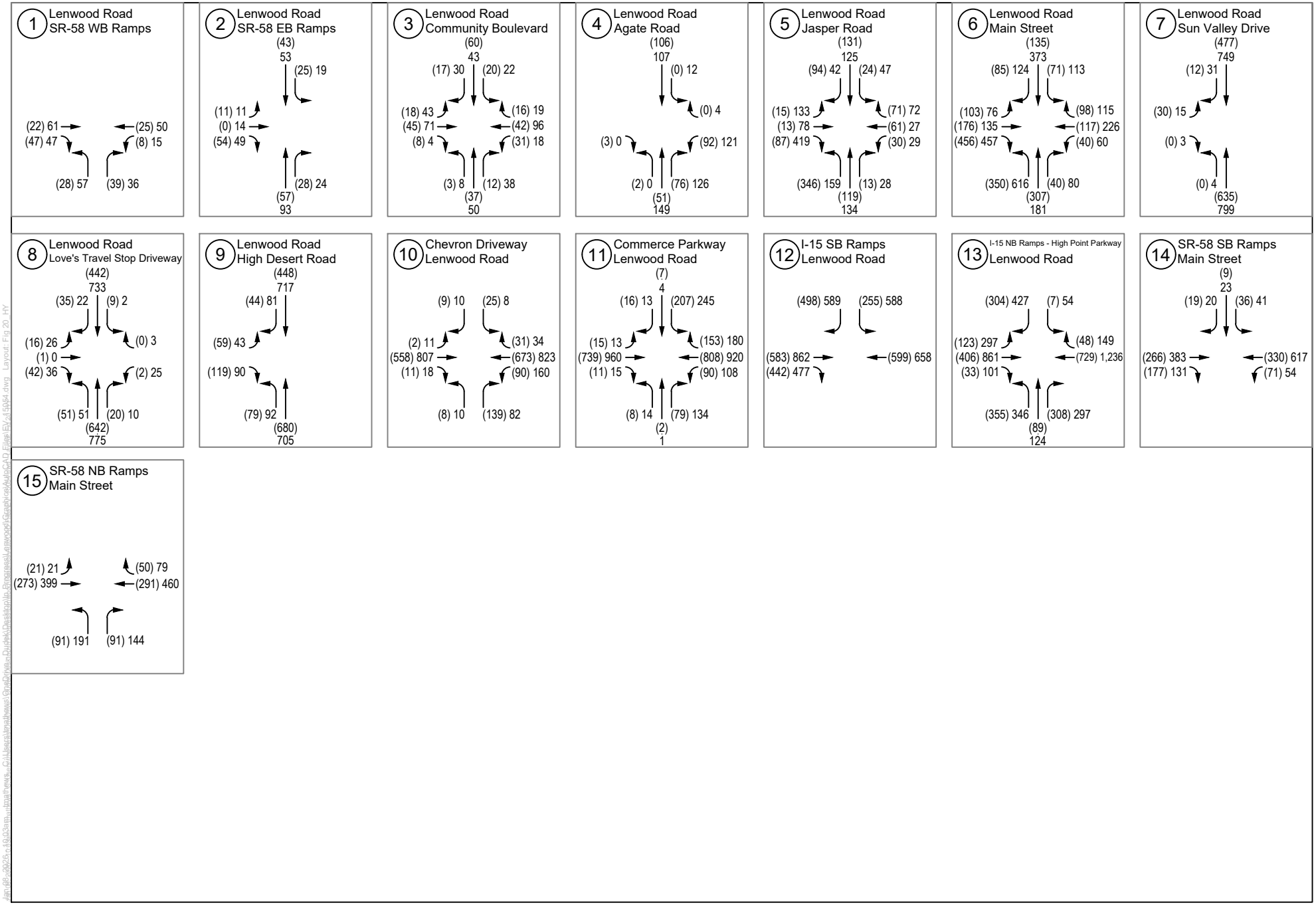

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FIGURE 20

Horizon Year (2048) Peak Hour Traffic Volumes (PCE)

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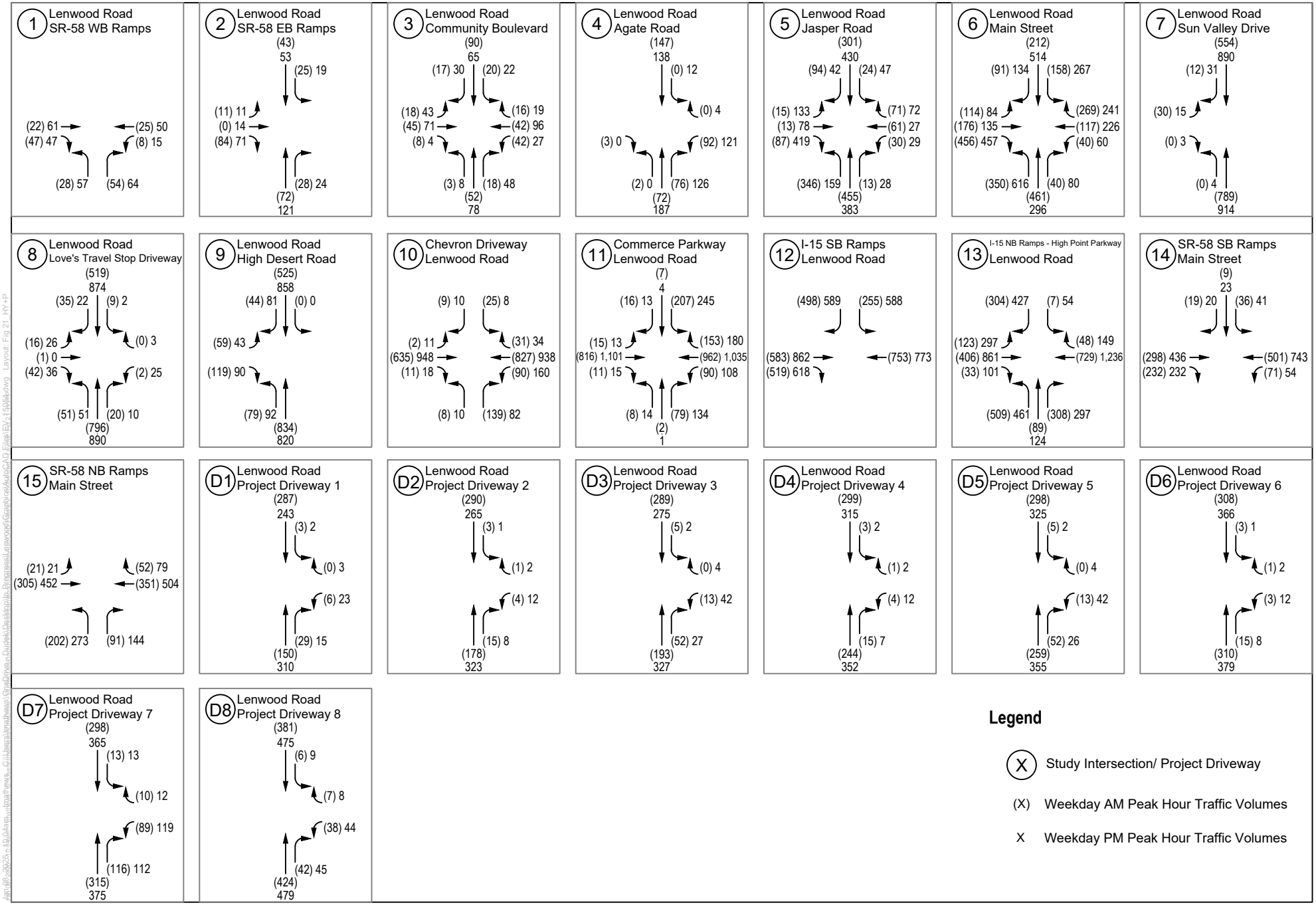

FIGURE 21

Horizon Year (2048) plus Project Peak Hour Traffic Volumes (PCE)

EV Charging/Logistics Facility Project

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8 Project Access and Circulation

This section describes the proposed site access and roadway improvements, emergency access and pedestrian and bicycle access.

Site Access and Circulation

Access to the EV charging station would be via two full-access driveways along Lenwood Road, with the main driveway providing access to a four-lane internal road between the EV charging station and the logistics facility. Access to the logistics facility would be via six full access driveways along Lenwood Road, with access for both passenger cars and trucks, as shown in Figure 2. The driveways would vary in width from 30 feet to 50 feet. The project would provide a new 60-foot-wide roadway dedication providing future access to the property to the east of the site. Figure 22 presents the proposed 60-foot roadway section for the new public roadway proposed.

The HCM Synchro reports generated for the intersection LOS analyses provide preliminary queuing results for each of the project driveways. The reports show negligible queueing would occur at each of the driveways under all scenarios evaluated. Given the results of the HCM queuing reports, the proposed two-way left turn lane along the project frontage, and the low volume of through traffic on Lenwood Road, no off-site queuing issues are anticipated. As future development occurs along the west side of Lenwood Road, site access and potential off-site queuing should be evaluated as part of future development proposals.

Proposed Frontage Improvements

Lenwood Road is currently a two-lane north-south oriented roadway that is classified as a 104-foot wide Major Highway in the County's Circulation Master Plan. The project would improve the east side of Lenwood Road to its ultimate half-width along the project site's frontage including the construction of sidewalk, curb and gutter. This half section would contain a 10-foot shoulder, two 12-foot northbound travel lanes and half of a 12-foot center lane. The 10-foot shoulder would provide the dedicated right-of-way for implementation of a Class II bike lane as identified in the County's Circulation Master Plan (timing to be determined in consultation with the County). In addition, the project would add 6 feet of paving to the west half of Lenwood Road to accommodate the balance of the center striped median lane and would repave the existing southbound travel lane, to the extent such paving and re-paving have not already been completed by others. Further, the project would transition Lenwood Road back to existing width and provide striping north of the project boundary to Agate Road. See Figure 23, Proposed Lenwood Road Section, illustrating the proposed frontage improvements. These proposed improvements may be modified upon further review of the County Public Works and Land Use Services Departments. The right-of-way dedication for and construction of the ultimate width of the west side of Lenwood Road will be determined by future agreement between the City of Barstow and the County.

Emergency Access

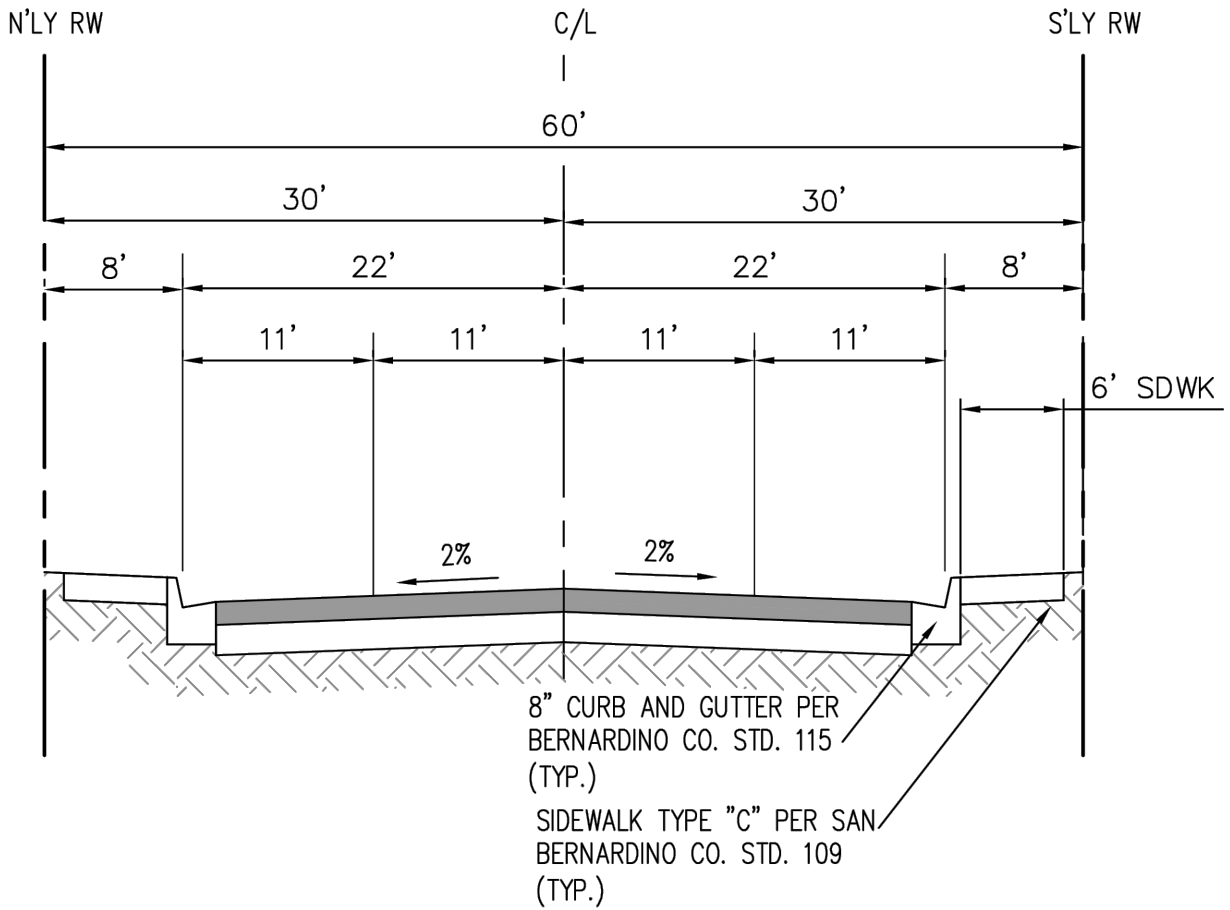
All roadway, intersection and project access improvements would be overseen by the County and their qualified traffic engineers. This approach would ensure compliance with all applicable roadway design requirements. In the event of an emergency all the site access driveways would enable vehicles to enter/exit the project site. All street improvements will be designed with adequate width, turning radius, and grade to facilitate access by County's firefighting apparatus, and to provide alternative emergency ingress and egress. The site plan would be subject to

plan review by the County's Fire Department to ensure proper access for fire and emergency response is provided and required fire suppression features are included. Therefore, the project's impact due to inadequate emergency access would be less than significant. As such, no hazardous design features would be part of the project's roadway improvements or site access.

Pedestrian and Bicycle Access

The project site is primarily surrounded by vacant land with limited pedestrian or bicycle infrastructure provided. As described above, the project will construct sidewalk, curb and gutter along the project frontage, as well as provide the dedicated right-of-way for implementation of a Class II bike lane as identified in the County's Circulation Master Plan. As the adjacent areas surrounding the project site continue to develop, pedestrian and bicycle access will be improved.

Sidewalks are proposed throughout the project site providing pedestrian access to the various uses within the site, including the charging station, the commercial area, parking areas, and the logistics facility.



PROPOSED NEW 60' ROADWAY SECTION

(INDUSTRIAL COLLECTOR SAN BERNARDINO CO. STD. 103b)
NO SCALE

NOTE:

1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED FROM SOILS TEST AND SO INDICATED ON CONSTRUCTION PLANS

SOURCE: Transtech, 2025.

FIGURE 22

Proposed Internal Local Industrial Road Cross-Section

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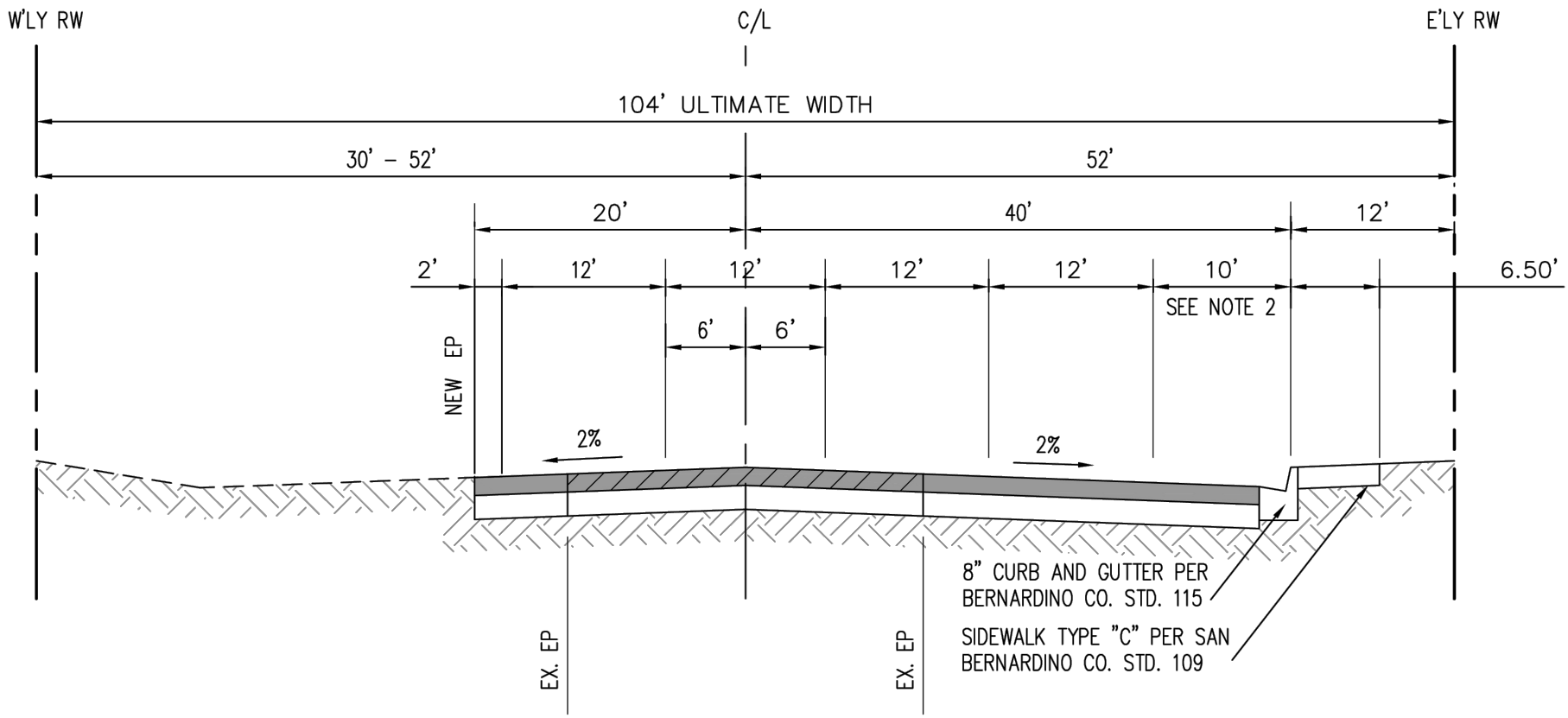

PROPOSED LENWOOD ROAD SECTION

WITH CONTINUOUS LEFT TURN LANE

(MAJOR HIGHWAY SAN BERNARDINO CO. STD. 101)

NO SCALE

NOTE:

1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED FROM SOILS TEST AND SO INDICATED ON CONSTRUCTION PLANS
2. TEN FEET (10') SHOULDER AREAS MAY BE DESIGNATED AS BIKE LANES AND EMERGENCY PARKING.

SOURCE: Transtech, 2025.

FIGURE 23

Proposed Lenwood Road Cross-Section

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9 Recommended Improvements and Fair Share Contribution

This section presents the recommended intersection and roadway improvements required to meet the County and City's level of service standards, as well as the project's fair share contribution toward implementing the improvements.

9.1 Recommended Improvement Measures

Table 13 identifies intersection improvements that would be necessary to bring the study area intersections to acceptable operating conditions under Opening Year (2028) and Horizon Year (2048) plus Project conditions. Synchro worksheets, with the proposed improvements, are included in Appendix D.

Table 13. Recommended Improvement Measures

Intersection		Jurisdiction	Opening Year (2028) plus Project		Horizon Year (2048) plus Project	
			Improvement	LOS with Improvement	Improvement	LOS with Improvement
5	Lenwood Rd./ Jasper Rd.	Barstow/ County	Install signal and restripe all approaches[1] (City & County)	AM Peak Hour: LOS A PM Peak Hour: LOS A	Same	AM Peak hour: LOS A PM Peak Hour: LOS B
6	Lenwood Rd./ Main St.[2]	Barstow/ County	N/A	N/A	Restripe SB approach to provide a second SB left-turn lane. (City) Restripe SB right-turn lane into a through-right lane. (City) Reconfigure traffic island to provide space for additional SB through movement. (City) Restripe NB approach to provide a second NB left-turn lane. (County)	AM Peak hour: LOS C PM Peak Hour: LOS B
8	Lenwood Rd./Love's Travel Stop Dwy	Barstow	N/A	N/A	Install signal. Install fiber optic interconnect system between intersections Love's Travel Stop Driveway and Commerce Pkwy	AM Peak hour: LOS A PM Peak Hour: LOS A

Table 13. Recommended Improvement Measures

Intersection		Jurisdiction	Opening Year (2028) plus Project		Horizon Year (2048) plus Project	
			Improvement	LOS with Improvement	Improvement	LOS with Improvement
					and optimize signal timing for corridor. (City)	
9	Lenwood Rd./High Desert Rd.	Barstow	N/A	N/A	Install Signal (City)	AM Peak hour: LOS A PM Peak Hour: A
10	Lenwood Rd./Chevron Driveway	Barstow	Install signal and cluster intersection with signal at Commerce Pkwy. (City)[3]	AM Peak Hour: B PM Peak Hour: C	Same	AM Peak Hour: LOS B PM Peak Hour: LOS B

Source: Synchro Worksheets w/Improvements (Appendix D)
Notes:
1 Signalization and restriping improvements at the Lenwood Rd./Jasper Rd. intersection would be implemented by the Barstow International Gateway for their driveway.
2 The intersection jurisdiction is split between San Bernardino County and the City of Barstow. The County maintains Lenwood Road east of the centerline and Main Street east of Lenwood Road.
3 Cluster signalization identified by BIG project under 2033 conditions. Improvement would be implemented when signal warrant is met. Screenshot of LOS worksheet is provided in Appendix D as Synchro only provides read-only results for clustered signal analysis.

9.2 Fair Share Contribution

Table 14 provides a breakdown of the Project's fair share contributions to the above recommended improvements per the methodology provided in Chapter 4.5.1.

Table 14. Project's Fair Share Contribution

No.	Intersection	Peak Hour	Existing Traffic	Project Traffic	Horizon Year (2048) plus Project	% Project Traffic of Net New Traffic
5	Lenwood Rd./ Jasper Rd.	PM	402	554	1,847	30%
6	Lenwood Rd./ Main St.[1]	PM	696	554	3,110	18%
8	Lenwood Rd./ Love's Travel Stop Driveway	PM	397	256	1,939	13%
9	Lenwood Rd./ High Desert Road	PM	561	256	1,984	13%
10	Lenwood Rd./Chevron Driveway	PM	954	256	2,219	12%

Notes:
1 The intersection jurisdiction is split between San Bernardino County and the City of Barstow. The County maintains Lenwood Road east of the centerline and Main Street east of Lenwood Road.

Table 15 presents the estimated cost of the recommended improvements and the project's fair share cost to the improvement. A detailed summary of the costs and assumptions are provided in Appendix E.

Table 15. Project's Fair Share Cost Estimates

No.	Intersection	Improvement	Jurisdiction/ Estimated Total Cost	Fair Share Percentage	Cost to Developer
5	Lenwood Rd./ Jasper Rd.	Install traffic signal	City of Barstow $287,500 San Bernardino County $287,500	30%	City of Barstow $86,250 San Bernardino County $86,250
6	Lenwood Rd./ Main St.[1]	Restriping and reconfiguration of island	City of Barstow $41,470 San Bernardino County $6,152	18%	City of Barstow $7,465 San Bernardino County $1,107
8	Lenwood Rd./ Love's Travel Stop Driveway	Restriping, install signal interconnect system and traffic signal	City of Barstow $592,500	13%	City of Barstow $77,025
9	Lenwood Rd./ High Desert Road	Install traffic signal	City of Barstow $575,000	13%	City of Barstow $74,750
10	Lenwood Rd./Chevron Driveway	Install signal and cluster intersection	City of Barstow $592,500	12%	City of Barstow $71,100

Notes:

1 The intersection jurisdiction is split between San Bernardino County and the City of Barstow. The County maintains Lenwood Road east of the centerline and Main Street east of Lenwood Road.

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10 Summary

The key findings of the analysis presented in this LTA are summarized below:

Project Trip Generation

- The proposed project would generate 5,580 daily trips, 429 AM peak hour trips, and 470 PM peak hour trips. This is equivalent to 7,466 daily PCEs, 567 AM peak hour PCEs, and 623 PM peak hour PCEs.

Level of Service Analysis

Existing Conditions

- All of the study area intersections are currently operating at LOS C or better under existing conditions.

Opening Year (2028) conditions

- All of the study area intersections are forecast to operate at LOS C or better, with and without the project, except for:
  - **Lenwood Road/Jasper Road (#5).** BIG proposes realigning Hinkley Road to connect with the west leg of the Lenwood Road/Jasper Road intersection and installing a traffic signal, widening the roadway and restriping at the intersection. Signalization is warranted under the Opening Year (2028) conditions (Kimley Horn 2025) and would be implemented by BIG. With signalization, the intersection would operate at acceptable levels of service.
  - **Lenwood Road/Chevron Driveway (#10).** The intersection is forecast to operate at LOS D under the Opening Year (2028) AM scenario and at LOS E under the PM scenario, and at LOS E and F under the Opening Year (2028) plus Project AM and PM scenarios respectively. With the addition of signalization and clustering the signal with the Lenwood Road/Commerce Parkway signal, the intersection would operate at acceptable levels of service. The project would contribute its fair share cost toward this improvement. Implementation of this improvement would occur when signal warrants are met.

Horizon Year (2048) conditions

- All of the study area intersections are forecast to operate at LOS C or better, with and without the project, except for:
  - **Lenwood Road/Jasper Road (#5).** As noted above, as part of the BIG access improvements, the Lenwood Road/Jasper Road intersection will be signalized. With signalization, the intersection would operate at acceptable levels of service.
  - **Lenwood Road/Main Street (#6).** The intersection is forecast to operate at LOS D during the Horizon Year (2048) AM scenario, with and without the project, and LOS F during the Horizon Year (2048) PM scenario, with and without the project. With restriping the northbound and southbound approaches, the intersection would operate at acceptable levels of service. The project would contribute its fair share cost toward this improvement.
  - **Lenwood Road/Love's Travel Stop Driveway (#8).** The intersection is forecast to operate at LOS D during the Horizon Year (2048) AM scenario and LOS E during the Horizon Year (2048) PM scenarios. The

intersection is forecast to operate at LOS E and F during the Horizon Year (2048) plus Project AM and PM scenarios, respectively. With signalization, the intersection would operate at acceptable levels of service. The project would contribute its fair share cost toward this improvement.

- **Lenwood Road/High Desert Road (#9).** The intersection is forecast to operate at LOS D under the Horizon Year (2048) plus Project PM Scenario. With the addition of signalization, the intersection would operate at acceptable levels of service. The project would contribute its fair share cost toward this improvement.
- **Lenwood Road/Chevron Driveway (#10).** The intersection is forecast to operate at LOS E under the Horizon Year (2048) AM scenario and at LOS F under the Horizon Year (2048) PM scenario, with and without the project. With the addition of signalization and clustering the signal with the Lenwood Road/Commerce Parkway signal, the intersection would operate at acceptable levels of service. The project would contribute its fair share cost toward this improvement.

Road Segment Analysis

- The road segment of Lenwood Road, between Agate Road and Cam Del Sol is operating at acceptable conditions under Existing Year conditions and will continue to operate at acceptable conditions under Opening Year (2028) and Horizon Year (2048) conditions, with and without the project traffic.

Queuing Analysis

- The proposed project would not result in unacceptable queueing conditions into or out of the project site.

Frontage Improvements

- The project would improve the east side of Lenwood Road to its ultimate half-width along the project site's frontage including the construction of sidewalk, curb and gutter. This half section would contain a 10-foot shoulder, two 12-foot northbound travel lanes and half of a 12-foot center lane. The 10-foot shoulder would provide the dedicated right-of-way for implementation of a Class II bike lane as identified in the County's Circulation Master Plan (timing to be determined in consultation with the County). In addition, the project would add 6 feet of paving to the west half of Lenwood Road to accommodate the balance of the center striped median lane and would repave the existing southbound travel lane, to the extent such paving and re-paving have not already been completed by others. The right-of-way dedication for and construction of the ultimate width of the west side of Lenwood Road will be determined by future agreement between the City of Barstow and the County.

11 References

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Appendix A

Transportation Scoping Memorandum

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MEMORANDUM

To:	City of Barstow - Rochelle Clayton, City Manager; Matthew Summers, City Attorney; Chris Heldreth, Community Development Department Director
From:	Lisa Valdez, Senior Transportation Planner
Subject:	Electrical Vehicle Charging Station and Logistics Facility Project, Lenwood, San Bernardino County
Date:	June 25, 2024, revised December 13, 2024, revised April 4, 2025
cc:	Vanessa Norwood, Contract Planning Manager, County of San Bernardino Land Use Services; Jon Braginton, Planner, County of San Bernardino Land Use Services; Phil Angelides, EVC Partners LLC; Brian Vail, EVC Partners; Greg Devereaux, Worthington Partners; David Mlynarski, Transtech
Attachment(s):	Attachment A: Project Trip Generation table (Table 2) Attachment B: Figures 1-8 Attachment C: SBCTA VMT Screening Tool results Attachment D: DEA Comments on Transportation Scoping memo Attachment E: Fehr & Peers comments on Transportation Scoping memo Attachment F: City of Barstow comments on Transportation Scoping memo Attachment G: Transportation Scoping Response to Comments Memo Attachment H: County of San Bernardino Scoping Correspondence and Approval Attachment I: Original Approved Scoping Memo to County, November 2023 (project has since been modified)

Dudek has prepared the following transportation scoping memorandum for the proposed Lenwood EV Charging Station and Logistics Facility Project (project) to be located on Lenwood Road between California Highway 58 (CA 58) and Interstate 15 (I-15), in the County of San Bernardino (Figure 1, Project Location). This scoping memo has been revised based on comments received from David Evans and Associates (February 7, 2025 & November 18, 2024; see Attachment D) on the transportation scoping memo submitted to the City of Barstow on June 25, 2024 (November 18, 2024 comments) and as revised December 13, 2024 (February 7, 2025 comments). Additional comments were received from Fehr & Peers (Attachment E) and the City of Barstow (Attachment F) in March 2025. This scoping memo was originally approved by San Bernardino County in November 2023 (see Attachment I). The project was modified several times since November 2023 and scoping for the current project (as described in this memo) was approved by the County in April 2024 (see Attachment H).

The memo describes the anticipated trip generation and trip distribution of the proposed project and provides the proposed analysis methodology for the Transportation Impact Study (TIS) based on the requirements and policies from the San Bernardino County's (County) Transportation Impact Study Guidelines (July 2019), the San Bernardino County Transportation Authority's (SBCTA) Congestion Management Program (CMP), the City of Barstow Circulation Element (2015), and Caltrans Transportation Impact Study Guide (May 2020).

Project Description

The approximately 100-acre Project site includes four parcels (049-714-203, 049-714-204, 049-714-214, and 049-714-215) and is located on Lenwood Road between CA 58 and Interstate-15, approximately one mile west of CA 58 and four miles west of downtown Barstow. The Project site is undeveloped and surrounded by undeveloped lands with the exception of a single-family residential neighborhood, High Desert Estates, located adjacent to the southern Project boundary.

The project site plan is provided as Figure 2, and a summary of the proposed land uses is presented in Table 1. The Project is proposing development on approximately 20-acres in the southern portion of the site with an electric vehicle charging hub for light duty/passenger vehicles and medium and heavy-duty trucks. The site will have a range of EV chargers to serve different charging needs (e.g., automobiles vs medium and heavy-duty trucks; slower chargers for overnight truck charging vs: fast charging for trucks, etc.). The EV charging station will include a commercial building of up to 15,000 square feet (SF) that will contain ancillary uses (e.g., food, convenience services, amenities for site users, etc.) for those using the station, as well as for local residents and nearby light industrial uses. The remaining site is proposed to include three warehouse buildings of 447,144 SF each, for a total of 1,341,432 SF of light industrial warehouse, logistic, and distribution facilities. Access would be provided from Lenwood Road via eight driveways. Figure 3 presents the proposed 60-foot roadway section for the new public roadway proposed between the EV charging station and the logistics facility.

Table 1. Summary of Proposed Project Components

	Land Use	Size
EV Charging Station	Truck Chargers	45 chargers
	Auto Chargers	8 chargers
	Truck Wash	6,000 SF; 2 lanes
	Truck Maintenance	4,000 SF; 4 bays
Commercial	Retail	12,000 SF
	Fast Food with Drive-thru	3,000 SF
Warehouse	Building A	447,144 SF
	Building B	447,144 SF
	Building C	447,144 SF
	Subtotal	*1,341,432 SF*

Notes: SF = square feet

Proposed Frontage Improvements

Lenwood Road is currently a two-lane north-south oriented roadway that is classified as a 104-foot wide Major Highway in the County's Circulation Master Plan. The project would improve the east side of Lenwood Road to its ultimate half-width along the project site's frontage including the construction of sidewalk, curb and gutter. This half section would contain a 10-foot shoulder, two 12-foot northbound travel lanes and half of a 12-foot center

lane. The 10-foot shoulder would provide the dedicated right-of-way for implementation of a Class II bike lane as identified in the County's Circulation Master Plan (timing to be determined in consultation with the County). In addition, the project would add 6 feet of paving to the west half of Lenwood Road to accommodate the balance of the center striped median lane and would repave the existing southbound travel lane, to the extent such paving and re-paving have not already been completed by others. See Figure 7, Proposed Lenwood Road Section, illustrating the proposed frontage improvements. For reference, Figure 8 is also provided and shows the County's typical section for a Major Highway. These proposed improvements may be modified upon further review of the County Public Works and Land Use Services Departments. The right-of-way dedication for and construction of the ultimate width of the west side of Lenwood Road will be determined by future agreement between the City of Barstow and the County.

Trip Generation

The estimated project trip generation is summarized in Table 2 (Attachment A). Trip generation estimates for the proposed commercial and warehouse uses are based on daily and AM and PM peak hour trip generation rates obtained from the Institute of Transportation Engineers (ITE) Trip Generation Handbook, 11th Edition (2021). Since there are no industry standard rates for EV charging stations, trip rates for the charging station (by charging type) are based on assumptions regarding the maximum charging capacity, utilization rates, and other anticipated site operations. The assumptions are outlined in detail in the trip generation table notes.

Additionally, Passenger car equivalent (PCE) factors were applied to the trip generation estimates to account for truck traffic. The San Bernardino County Congestion Management Plan (CMP) indicates that projects with high truck percentages should convert project trips to PCE. A 1.5 PCE factor was applied to 2-axle trucks, 2.0 PCE for 3-axle trucks, and a 3.0 PCE factor was applied to 4-axle trucks per the San Bernardino County CMP. As the ITE Trip Generation Handbook does not provide a breakdown of truck traffic by axle classification, vehicle mix data and percentages are also applied to the project trip generation estimates from the 2014 SCAQMD Warehouse Truck Trip Study Data Results and Usage (SCAQMD Study).

As shown in the Table 2, the project would generate 5,580 daily trips, 429 AM peak hour trips, and 470 PM peak hour trips. This is equivalent to 7,466 daily PCEs, 567 AM peak hour PCEs, and 623 PM peak hour PCEs.

Trip Distribution

Project trip distribution percentages are based on logical travel paths to and from the project site to major highway corridors and the City's designated truck routes. The preliminary project trip distribution percentages are shown in Figures 4 and 5, for passenger vehicle and truck trips, respectively. The total project trip assignment (in PCE) is provided as Figure 6.

Level of Service Analysis

Per the County's TIS guidelines, an LOS analysis would be required at intersections (of Collector or higher designated streets) where projects would generate 50 or more peak hour trips. In addition, intersections #7-10 were included

at the request of the City of Barstow. As such, the following intersection and roadway segments were selected for analysis:

Intersections

1. Lenwood Road/SR-58 WB Ramps
2. Lenwood Road/SR-58 EB Ramps
3. Lenwood Road/Community Boulevard
4. Lenwood Road/Agate Road
5. Lenwood Road/Jasper Road
6. Lenwood Road/Main Street
7. Lenwood Road/Sun Valley Drive
8. Lenwood Road/Love's Travel Stop Driveway
9. Lenwood Road/High Desert Road
10. Lenwood Road/Chevron Driveway
11. Commerce Parkway/Lenwood Road
12. I-15 SB Ramps/Lenwood Road
13. I-15 NB Ramps - High Point Parkway/Lenwood Road
14. SR-58 SB Ramps/Main Street
15. SR-58 NB Ramps/Main Street

Study Roadway Segments

1. Lenwood Road, south of Agate Road
2. Lenwood Road, south of Cam Del Sol

Analysis Scenarios

The intersection LOS analyses will be prepared for the weekday AM and PM peak hours at the study area intersections listed above for the following analysis scenarios:

- Existing conditions
- Background conditions (no Project) –Defined as Opening Year Conditions with ambient growth and traffic from approved projects
- Background conditions plus Project - Defined as background conditions plus traffic from the proposed project
- Cumulative Year (no project) - Defined as ambient growth to the Cumulative Horizon plus traffic approved and pending projects in the area
- Cumulative Year plus project - Defined as Cumulative No Project Conditions plus traffic from the proposed Project.

Project Opening Year baseline conditions will be developed from a "build-up" method based on the application of cumulative project trip generation estimates and an ambient growth rate (1%), added to the existing traffic volumes. The growth rate is based on the growth rate identified for the Desert region in the County's Transportation Scoping form (Attachment I). Trip generation estimates for cumulative projects in the Opening Year condition will be based on trip rates in ITE's Trip Generation, 11th Edition, or from their respective traffic studies and/or CEQA documents

(if available). Dudek will obtain a list of cumulative projects from the City of Barstow Community Development Department and the County of San Bernardino Land Use Services Department.

Horizon Year (2040) traffic volumes will be obtained from the SBCTA's San Bernardino Transportation Analysis Model (SBTAM). Baseline and Plus Project traffic volumes from SBTAM will be post-processed to model specifications.

LOS analyses will be prepared consistent with County's requirements which is based on the Highway Capacity Manual (HCM) methodology. The operational analysis will be conducted using Synchro/SimTraffic analysis software to reflect the effect of downstream congestion more accurately on intersection operations. In addition, queues will be determined at key storage (turn) lanes.

Traffic Counts

New AM and PM peak hour and daily roadways traffic counts were collected at the study area intersections and roadways on May 11, 2023 during a non-holiday week while adjacent schools were in session. An annual growth rate of 1 percent (consistent with the County's Guidelines for the Desert Region) will be applied to the traffic counts to reflect 2025 conditions.

Vehicle Miles Traveled Screening Analysis and Approach

Consistent with the screening thresholds identified in the County Guidelines, the SBCTA VMT Screening Tool was used to aid in the VMT screening process. The County Guidelines state that a project may have a less than significant impact and screen out of requiring a project-level VMT analysis if it meets at least one of the County's following VMT screening criteria:

- Local Serving Project Screening
- Projects Generating Less than 110 Daily Vehicle Trips
- Transit Priority Area (TPA) Screening
- Low VMT Area Screening

Local Serving Project Screening

The County Guidelines suggest Local-Serving Retail under 50,000 square feet and Local Essential Services such as K-12 schools, day care centers, and community institutions shortens nondiscretionary trips by putting those goods and services closer to residents, resulting in an overall reduction in VMT.

The Project includes amenities that cater to both local residents and motorists traveling along Lenwood Road, I-15, and SR-58. It includes EV charging facilities that will primarily serve vehicles already using the adjacent freeways. This component, although not strictly local-serving in nature, does not generate additional trips that were not already occurring. By offering dining, retail/convenience shopping, and EV charging opportunities, the Project is expected to shorten vehicle trips for both local residents and passing motorists. Thus, the Project's EV charging and retail components qualify for exemption from a VMT assessment under the County Guidelines. Therefore, the Local Serving Project screening criteria is partially met for the EV charging station and commercial building.

Projects Generating Less Than 110 Daily Vehicle Trips

The County Guidelines state projects generating less than 110 daily vehicles trips are presumed to have a less than significant impact on VMT. As previously discussed, the Project is forecast to generate 5,580 daily trips and is above the 110 daily trip threshold. Therefore, this criterion is not met.

Transit Priority Area (TPA) Screening

The County Guidelines state that projects located within a TPA (i.e., within ½ mile of an existing "major transit stop" or an existing stop along a "high-quality transit corridor") may be presumed to have a less-than-significant impact absent substantial evidence to the contrary. Based on the Screening Tool results presented in Attachment C, the project site is not located within ½ mile of an existing major transit stop, or along a high-quality transit corridor. Therefore, the TPA screening criteria is not met.

Low VMT Area Screening

As noted in the County Guidelines, "development in efficient areas of the County will reduce VMT per person/employee and is beneficial to the region". The County Guidelines state that projects with VMT per person/employee lower than 4% below the existing VMT per person for the unincorporated County are considered to have a less-than-significant VMT impact.

It is general industry practice to perform a secondary evaluation to identify if a project is consistent with the existing land use within that traffic analysis zone or Transportation Analysis Zone (TAZ) and use professional judgement that there is nothing unique about the project that would otherwise be mis-represented using data from the travel demand model. Existing land use information was examined in the SBTAM model for the project's TAZ 53962201 and was found to contain land use information that would be inconsistent with the project. Therefore, the project does not qualify for this screening criteria.

The project's EV charging station and commercial component was found to meet the Local Serving Project screening criteria. However, the remaining industrial component of the project does not meet eligible screening criteria. Therefore, a project-level VMT analysis will be prepared, as further described below.

VMT Analysis Approach

Dudek will prepare a project-level VMT analysis consistent with the County's requirements and the Governor's Office of Planning and Research's (OPR) Technical Advisory on Evaluating Transportation Impacts in CEQA (December 2018). The Project's VMT and the forecast regional VMT will be calculated using the SBTAM. Dudek will contract with the transportation firm authorized to run the model. The traffic analysis zone or TAZ of the Project site will be modified with the Project's proposed land uses, and a Select Zone model run will be performed to determine the Project's trip assignment. As part of the Select Zone run, the VMT estimate of the Project's TAZ will be determined. Then, the regional VMT estimate for the study area region (extent to be determined by the County) will also be provided from SBTAM. VMT estimates will be analyzed for the Baseline plus Project and Cumulative plus Project conditions.

If VMT impacts are identified, Dudek will coordinate with the County to determine the appropriate VMT reduction strategies provided in their VMT guidelines, and other resources noted in the OPR and Caltrans Technical Advisories (or other approved sources) to mitigate Project impacts.

Access, Circulation, and Safety

Dudek will qualitatively analyze the transit, pedestrian, and bicycle facilities that serve the project site. Project access and on-site circulation will be based on the County's Standard Plans/Drawings for access and on-site circulation design requirements. Vehicular queuing at the project's driveways will be analyzed for adequacy based on the 95th percentile (design) queues. For any significant project traffic impacts found, Dudek will determine appropriate and feasible mitigation measures to offset significant project impacts.

Attachments

ATTACHMENT A

Trip Generation Table

Table 2 - Electric Vehicle Charging Station and Logistics Facility Project Trip Generation Summary

Land Use	ITE Code	Size/Units	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
TRIP RATES [1]									
Strip Retail Plaza	822	TSF	54.45	1.42	0.94	2.36	3.30	3.30	6.59
Fast food with drive-thru	934	TSF	467.48	22.75	21.86	44.61	17.18	15.85	33.03
EV Charging Station (including Truck maintenance/Truck wash)	N/A	see assumptions below[6]							
High-Cube Fulfillment Center Warehouse (non-sort)	155	TSF	1.81	0.12	0.03	0.15	0.06	0.10	0.16
TRIP GENERATION									
Strip Retail[2]	822	12 TSF	653	17	11	28	40	40	79
Fast food with drive-thru[2]	934	3	1,402	68	66	134	52	48	99
EV Charging- Autos	N/A	8 fast chargers	439	13	13	26	15	15	30
EV Charging- Trucks[6]	N/A	30+15 fast chargers	658	20	20	39	24	24	47
Warehouse	155	1341.432 TSF	2,428	163	38	201	84	131	215
		Subtotal (Non-PCE)	**5,580**	**281**	**148**	**429**	**213**	**257**	**470**
TRIP GENERATION BY VEHICLE MIX (Non-PCE)									
Vehicle Mix- Commercial									
Passenger Vehicles	100.0%		2,056	85	77	162	91	87	178
Vehicle Mix- Auto Chargers									
Passenger Vehicles	100.0%		439	13	13	26	15	15	30
Vehicle Mix- EV Truck Chargers [3]									
2-Axle Trucks	40.0%		263	8	8	16	9	9	19
3-Axle Trucks	10.0%		66	2	2	4	2	2	5
4+-Axle Trucks	50.0%		329	10	10	20	12	12	24
EV Truck Chargers Total (Non-PCE)			**658**	**20**	**20**	**39**	**24**	**24**	**47**
Vehicle Mix- Warehouse [4]									
Passenger Vehicles	72.5%		1,760	118	28	146	61	95	156
2-Axle Trucks	4.6%		112	7	2	9	4	6	10
3-Axle Trucks	5.7%		138	9	2	11	5	7	12
4+-Axle Trucks	17.2%		418	28	7	35	14	23	37
Warehouse Total (Non-PCE)			***2,428***	***162***	***39***	***201***	***84***	***131***	***215***
Total Site									
		Total Passenger Vehicles	4,255	217	118	334	167	197	364
		Total Trucks	1,325	65	30	95	47	60	106
Total Trip Generation (Non-PCE)			**5,580**	**281**	**148**	**429**	**213**	**257**	**470**
TRIP GENERATION BY VEHICLE MIX (PCE)									
Commercial Total (PCE)			**2,056**	**85**	**77**	**162**	**91**	**87**	**178**
Auto Chargers Total (PCE)			**439**	**13**	**13**	**26**	**15**	**15**	**30**
EV Truck Chargers (PCE, by Vehicle Classification)									
Vehicle Mix	**PCE**[5]								
Passenger Vehicles	n/a								
2-Axle Trucks	1.5		395	12	12	24	14	14	28
3-Axle Trucks	2.0		132	4	4	8	5	5	10
4+-Axle Trucks	3.0		986	30	30	60	35	35	70
		Total Passenger Vehicles	0	0	0	0	0	0	0
		Total Trucks	1,513	46	46	92	54	54	108
		EV Charging Total (PCE)	**1,513**	**46**	**46**	**92**	**54**	**54**	**108**
Warehouse (PCE, by Vehicle Classification)									
Vehicle Mix	**PCE**[5]								
Passenger Vehicles	1.0		1,760	118	28	146	61	95	156
2-Axle Trucks	1.5		168	11	3	14	6	9	15

Table 2 - Electric Vehicle Charging Station and Logistics Facility Project Trip Generation Summary

Land Use	ITE Code	Size/Units	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
3-Axle Trucks		2.0	277	19	4	23	10	15	25
4+-Axle Trucks		3.0	1,253	84	20	104	43	68	111
		Total Passenger Vehicles	1,760	118	28	146	61	95	156
		Total Trucks	1,698	114	27	141	59	92	151
		Warehouse Total (PCE)	**3,458**	**232**	**55**	**287**	**120**	**187**	**307**
Total Site Trip Generation (PCE)			**7,466**	**376**	**191**	**567**	**280**	**343**	**623**

NOTES: Rounding discrepancies may occur. TSF = Thousand Square Feet; PCE = Passenger Car Equivalent

[1]Trip rates from the Institute of Transportation Engineers (ITE), *Trip Generation, 11th Edition, 2021.*

[2]Assumes commercial land use consists of 12,000 SF of general commercial and 3,000 SF of fast food restaurant with drive-through.

[3]Based on assumed project operations, 40% of trucks would be 2-axle, 10% would be 3-axle, and 50% would be 4+-axle.

[4]Vehicle mix and percent from SCAQMD Warehouse Truck Trip Study Data Results and Usage, July 17, 2014.

[5]Passenger Car Equivalent (PCE) factors from the San Bernardino County CMP, Appendix B - Guidelines for CMP Traffic Impact Analysis Reports in San Bernardino County, 2016.

[6]Charging Station Assumptions:

Assumptions for the EV Charging Station

Truck wash and truck maintenance facilities are ancillary to the Charging Station and will be used by trucks already on site.

These land uses are not anticipated to generate additional trips, and are therefore not included in the trip generation table.

EV Autos- 8 DC Fast chargers

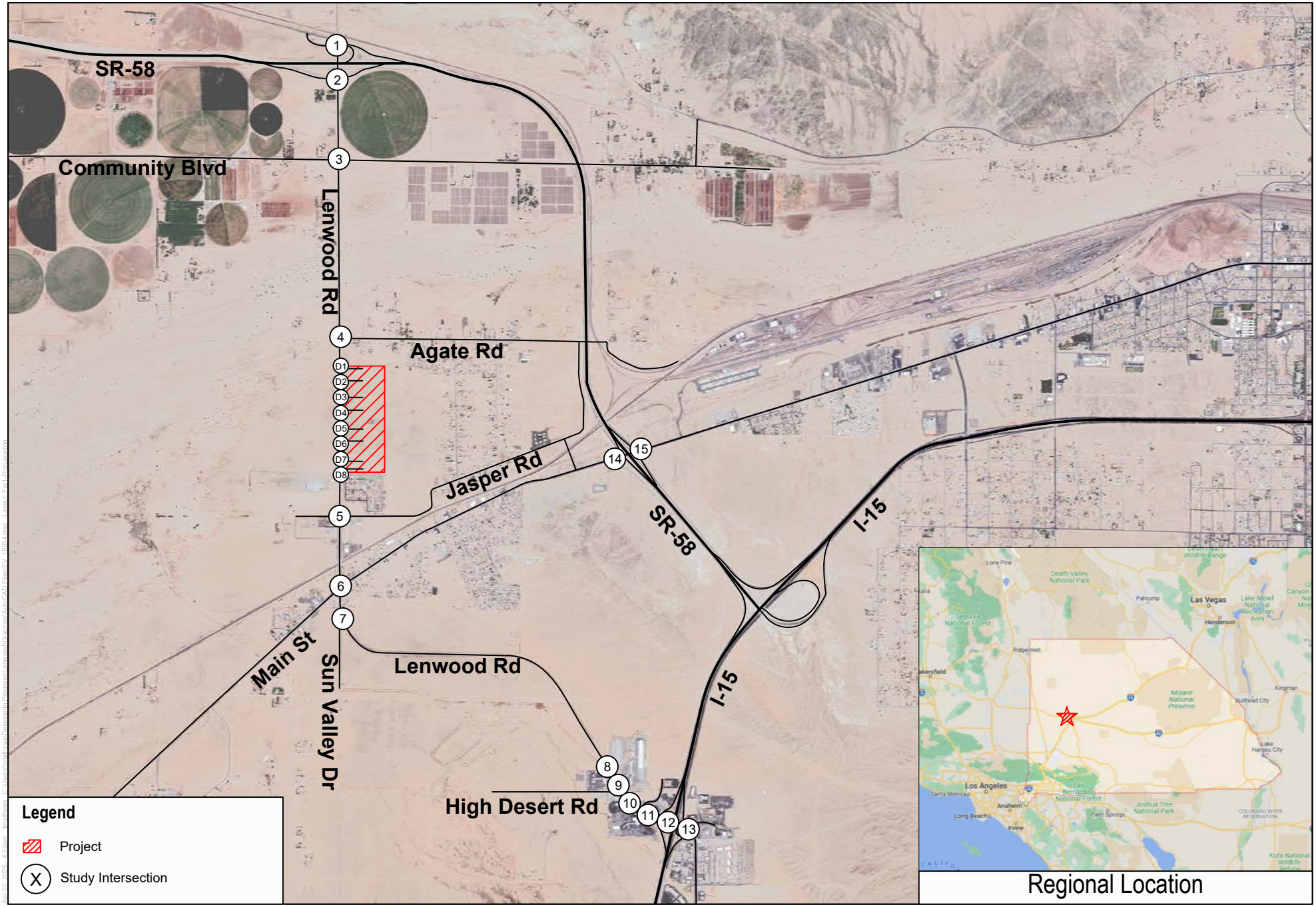
Count	8		
Max rate (kw)	250		
Avg Battery Capacity (kWh)	75		
Avg Amount Charged	70%		
kWh Charged / Visit	52.5		
Fast Charger Dwell Time (hrs)	0.21		
Theoretical Max (auto/hr)	38.10		
Theoretical Maximum (vehicle/day)	914.29		
Average Utilization	24%	https://www.upside.com/blog/why-measuring-capacity-utilization-is-essential-for-fuel-retailers	
Average vehicles per day	219.43	438.86	daily trips
AM Peak, equal split, 6% of daily total occurs during AM peak	6%	Based on ITE peak hour rates for truck stop	
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	7%	Based on ITE peak hour rates for truck stop	

EV Trucks- 30 DC Fast chargers (slower) + 15 DC Fast chargers

See EV Charging Calculator tab for details	LD Trucks	MD Trucks	HD Trucks		
Total Theoretical Max / Hour	102.9	51.4	21.4		
Theoretical Maximum (vehicle/day)	2469.6	1233.6	513.6		
Average Utilization	40%	40%	40%		
Utilization Rate Avg Vehicle/Day	987.8	493.4	205.4	1686.7	
Percent of Truck Traffic (same as warehouse vehicle mix)	40.0%	10.0%	50.0%		
Vehicles/Day Based on % of Traffic	132	33	164	329	daily trips
Average Daily Trucks	263	66	329	658	daily trips
AM Peak, equal split, 6% of daily total occurs during AM peak	6%	Based on ITE peak hour rates for truck stop			
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	7%	Based on ITE peak hour rates for truck stop			

ATTACHMENT B

Figures 1-8



SOURCE: Google Earth 2023

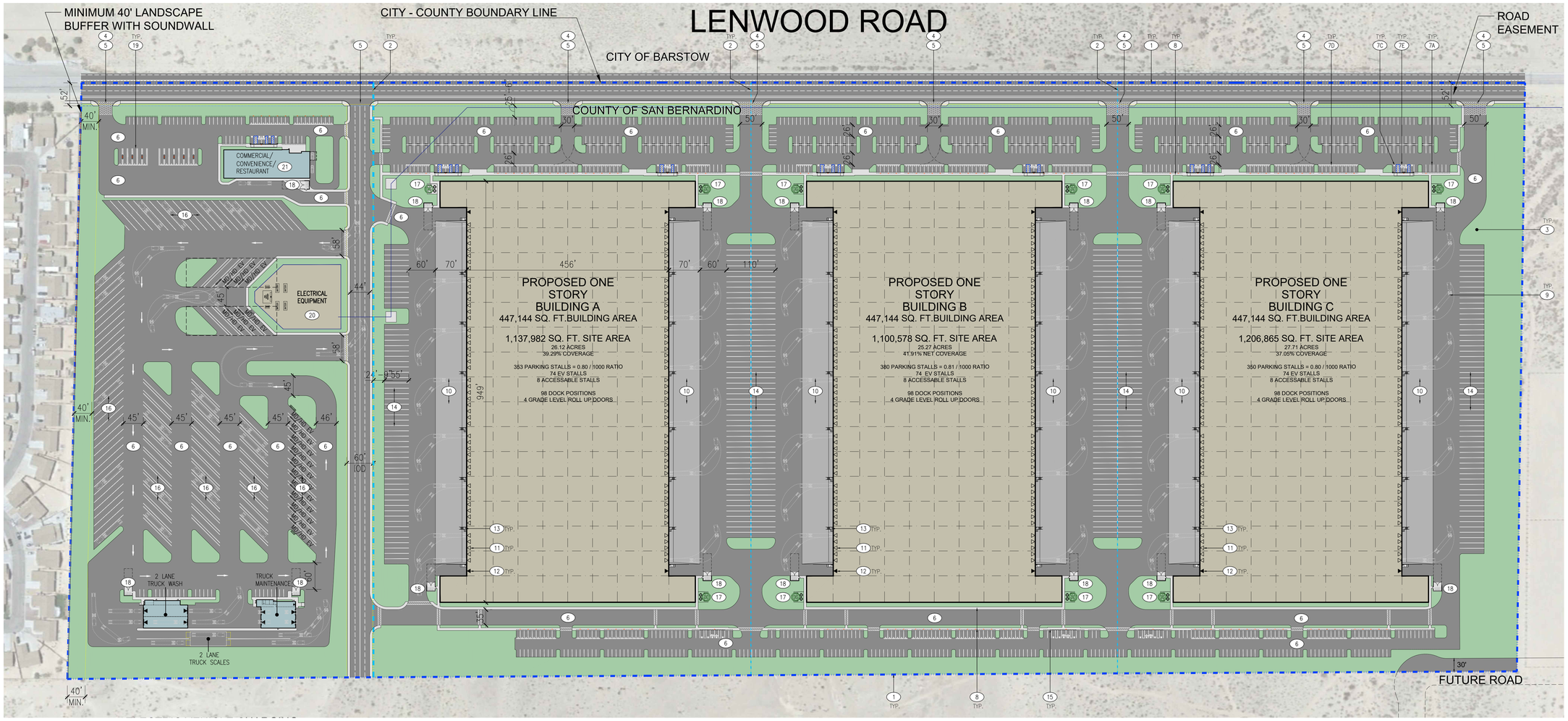
DUDEK

Not to Scale

FIGURE 1

Project Location and Study Area

EV Charging/Logistics Facility Project



OVERALL SITE INFORMATION

APN :	049-714-203, 049-714-204, 049-714-214, 049-714-215
ZONING:	CURRENT : RL - RURAL LIVING PROPOSED : IC - COMMUNITY INDUSTRIAL
TOTAL GROSS SITE AREA:	4,347,827 G.S.F. = 99.81 ACRES
NET SITE AREA:	4,216,377 N.S.F. = 96.79 ACRES
BUILDING AREA:	1,341,432 S.F. OF INDUSTRIAL, AND UP TO 15,000 S.F COMMERCIAL USES
SITE COVERAGE:	32.17%
CONSTRUCTION TYPE:	II-B, III-B OR V-B
BUILDING HEIGHT:	50'-0" TO UNDER SIDE OF ROOF DECK. MAXIMUM OVERALL ALLOWABLE 75'-0"
NUMBER OF STORIES:	1

LOT COVERAGE / FLOOR AREA RATIO ANALYSIS:

LAND USE ZONING	PROPOSED LOT COVERAGE	LOT SIZE	MAXIMUM LOT COVERAGE ALLOWED	TOTAL LOT COVERAGE
PROPOSED IC - COMMUNITY INDUSTRIAL	3,570,486 SQ. FT.	4,216,377 N.S.F.	85%	3,570,486 / 4,216,377 = 0.8468

LAND USE ZONING	FLOOR AREA RATIO MAXIMUM COVERAGE	TOTAL BUILDING AREA	TOTAL LOT AREA	TOTAL FAR
PROPOSED IC - COMMUNITY INDUSTRIAL	.45 : 1	1,366,432 SQ. FT.	4,216,377 N.S.F.	1,366,432 / 4,216,377 = .32

LANDSCAPING STANDARDS ANALYSIS:

LAND USE ZONING	MINIMUM LANDSCAPE AREA	
	AS A % OF LOT AREA	AREA IN SQ. FT.
PREDOMINANTLY INDUSTRIAL / WAREHOUSE	15 %	1,000 SQ. FT.

TOTAL LANDSCAPED AREA = ± 627,041 SQ. FT. = 15%

ELECTRIC VEHICLE CHARGING AND COMMERCIAL

TOTAL GROSS SITE AREA:	902,634 G.S.F. = 20.72 ACRES
NET SITE AREA:	876,170 N.S.F. = 20.11 ACRES
BUILDING AREA:	UP TO 15,000 SQ.FT. COMMERCIAL USES APPROXIMATELY 6,000 SQ.FT. TRUCK WASH APPROXIMATELY 4,000 SQ.FT. TRUCK MAINTENANCE
SITE COVERAGE:	2.85%
CONSTRUCTION TYPE:	II-B OR V-B
BUILDING HEIGHT:	± 25'-0"
NUMBER OF STORIES:	1
PARKING:	91 STALLS TOTAL
MEDIUM DUTY PARKING:	14 STALLS TOTAL
TRUCK PARKING:	121 STALLS TOTAL

PARKING STANDARDS: (SAN BERNARDINO COUNTY ZONING CODE TABLE 83-15)

- GENERAL RETAIL — 1/250 S.F. (15,000 S.F. @ 1/250 S.F.)) = 60 TOTAL STALLS
- REPAIR AND SERVICE STATIONS — 3 STALLS FOR EACH SERVICE BAY
- 6 BAYS (2 @ TRUCK WASH AND 4 @ MAINTENANCE) = 18 STALLS

** REQUIRED: 78 STALLS
** PROVIDED: 91 STALLS
- STANDARD STALLS: 91 — 9' X 19' (17' WITH A 2'-0" OVERHANG)
- COMPACT STALLS: 0 — 8' X 16' (14' WITH A 2'-0" OVERHANG) 0% OF TOTAL STALLS

ACCESSIBLE & DESIGNATED PARKING STALLS (REQUIRED AND PROVIDED) :

PER 2022 CBC TABLE 11B-208.2: 76 TO 100 STALLS, 4 STALLS REQUIRED TO BE ACCESSIBLE STALLS: EVERY 6 OR FRACTION OF SIX, AT LEAST ONE SHALL BE VAN PARKING.
5 ADA STALLS (INCLUDING 1 VAN ACCESSIBLE STALLS) PROVIDED.

PER 2022 CALIFORNIA GREEN BUILDING CODE TABLE 5.106.5.3.1: 76 TO 100 STALLS, 17 REQUIRED EV CAPABLE SPACES. OF THESE 4 ARE REQUIRED TO BE PROVIDED WITH EVSE.
22 EVSTALLS PROVIDED ALL TO HAVE EVSE

PER CBC TABLE 11B-228.3.2.1, 5 TO 25 EVCS STALLS: 1 VAN ACCESSIBLE EVCS, 1 STANDARD ACCESSIBLE EVCS AND 0 AMBULATORY EVCS ARE REQUIRED.
OF THE 22 EVCS REQUIRED, 1 VAN EVCS, 1 STANDARD ADA EVCS, AND 0 AMBULATORY EVCS ARE PROVIDED AS SHOWN.

THREE BUILDING LOGISTICS FACILITY

TOTAL GROSS SITE AREA:	3,445,405 G.S.F. = 79.10 ACRES
NET SITE AREA:	3,339,865 N.S.F. = 76.67 ACRES
BUILDING AREA:	1,341,432 S.F TOTAL OF BUILDINGS A, B, AND C
SITE COVERAGE:	40.16%
CONSTRUCTION TYPE:	III-B OR V-B
BUILDING HEIGHT:	MAXIMUM OVERALL ALLOWABLE 50'-0"
CLEAR HEIGHT:	36'-0"
NUMBER OF STORIES:	1
PARKING:	1083 STALLS TOTAL
TRAILER PARKING:	334 STALLS TOTAL

PARKING STANDARDS: (SAN BERNARDINO COUNTY ZONING CODE TABLE 83-15)

- WAREHOUSING — 1/1,000 S.F. FOR THE FIRST 40,000 S.F. 1/4,000 S.F. FOR ALL WAREHOUSE EXCEEDING 40,000 S.F.

(40,000 S.F. @ 1/1,000 S.F. = 40 STALLS * 3 BUILDINGS = 120 STALLS + (1,006,497 S.F @ 1/4,000 S.F. = 257 STALLS)) = 387 TOTAL STALLS

- POTENTIAL OFFICE SPACE @ 14.25% OF BUILDING AREA (MAX) — 1/250 S.F. (51,645 S.F. @ 1/250) * 3 BUILDINGS = 620 TOTAL STALLS

** REQUIRED: 1083 STALLS
** PROVIDED: 1083 STALLS
- STANDARD STALLS: 1083 — 9' X 19' (17' WITH A 2'-0" OVERHANG)
- COMPACT STALLS: 0 — 8' X 16' (14' WITH A 2'-0" OVERHANG) 0% OF TOTAL STALLS

ACCESSIBLE & DESIGNATED PARKING STALLS (REQUIRED AND PROVIDED) :

PER 2022 CBC TABLE 11B-208.2 & .4:
BUILDING A: 2 VAN ACCESSIBLE AND 8 STANDARD ACCESSIBLE STALLS REQUIRED
BUILDING B: 2 VAN ACCESSIBLE AND 8 STANDARD ACCESSIBLE STALLS REQUIRED
BUILDING C: 2 VAN ACCESSIBLE AND 8 STANDARD ACCESSIBLE STALLS REQUIRED

PER 2022 CALIFORNIA GREEN BUILDING CODE TABLE 5.106.5.3.1: OVER 201 STALLS, 20% OF TOTAL REQUIRED TO BE EV CAPABLE SPACES. 1083 X 0.2 = 217 STALLS. OF THESE, 25% ARE TO BE PROVIDED WITH EVSE. 217 X 0.25 = 55 STALLS.
222 EV STALLS PROVIDED AND 55 TO HAVE EVSE INSTALLED

PER CBC TABLE 11B-228.3.2.1:
BUILDING A: 1 EV VAN ACCESSIBLE, 2 EV STANDARD ACCESSIBLE, AND 2 EV AMBULATORY REQUIRED
BUILDING B: 1 EV VAN ACCESSIBLE, 2 EV STANDARD ACCESSIBLE, AND 2 EV AMBULATORY REQUIRED
BUILDING C: 1 EV VAN ACCESSIBLE, 2 EV STANDARD ACCESSIBLE, AND 2 EV AMBULATORY REQUIRED

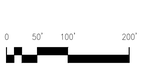
KEYNOTES:

1. EXISTING PROPERTY LINES
2. PROPOSED NEW PARCEL LINES
3. TYPICAL LANDSCAPE AREAS
4. ENHANCED PAVING AT DRIVE ENTRIES.
5. PROPOSED LOCATION OF NEW SITE ACCESS DRIVE CURB CUT
6. TYPICAL DRIVE ISLE
7. TYPICAL PARKING:
   - A. STANDARD STALLS: 9' X 19' OR 9' X 17' WITH 2' PARKING OVERHANG.
   - B. COMPACT STALLS: 8' X 16' OR 8' X 14' WITH 2' PARKING OVERHANG (35% MAX).
     *FINAL DESIGN MAY INCORPORATE COMPACT STALLS
   - C. ACCESSIBLE PARKING STALLS: 9' X 18' MIN. WITH 2' PARKING OVERHANG WITH 5' OR 8' WIDE LOADING ZONE
   - D. ELECTRIC VEHICLE CHARGING SPACES (STALLS LABELED "ELECTRIC VEHICLE CHARGING"). TO FOLLOW REQUIREMENTS PER CBGC 5.106.5.3.1.
   - E. ACCESSIBLE ELECTRIC VEHICLE CHARGING STALLS, VAN, STANDARD, AND AMBULITORY.
8. NEW CONCRETE PEDESTRIAN WALKS. ASSUME ALL SIDEWALKS TO BE ACCESSIBLE PATH OF TRAVEL. SLOPE NOT TO EXCEED 1:20 (5%) IN DIRECTION OF TRAVEL. CROSS SLOPE NOT TO EXCEED 1:50 (2%) WHERE PARKING OVERHANG OCCURS, INCREASE WIDTH OF SIDEWALK TO 6'-0" MIN.
9. SEMI TRACTOR TRAILER TEMPLATE SHOWN FOR REFERENCE ONLY
10. 60' DEPRESSED CONCRETE TRUCK DOCK WITH CURB AND GUARDRAIL AT EACH SIDE
11. LOADING DOCK ROLL UP DOOR, TYPICAL
12. GRADE LEVEL ROLL UP DOOR, TYPICAL
13. PREFABRICATED PAINTED STEEL DOCK STAIR AND BOLLARDS
14. TRAILER PARKING STALLS WITH CONCRETE DOLLY PADS
15. DASHED LINE INDICATES 2'-0" PARKING OVERHANG
16. SEMI TRUCK AND TRAILER PARKING STALLS
17. EMPLOYEE AMENITY AREAS
18. TRASH ENCLOSURE WITH 40' APPROACH. DESIGN TO COMPLY WITH COUNTY STANDARDS. CAPACITY TO MEET MINIMUMS IN COUNTY DEVELOPMENT CODE 84.24.040.
19. LIGHT/MEDIUM DUTY PULL THROUGH CHARGING
20. INCLUDES ELECTRICAL VEHICLE SUPPLY EQUIPMENT (EVSE), POTENTIAL SOLAR STORAGE BATTERIES, AND ELECTRICAL SUBSTATION (IF NEEDED)
21. UP TO 15,000 SQ. FT. COMMERCIAL BUILDING WITH DRIVE THRU WINDOW

SITE LEGEND:

- BUILDING AREA
- SITE CONCRETE
- COMMERCIAL AREA
- ASPHALT AREA
- LANDSCAPE AREA
- EXISTING PROPERTY LINE
- NEW PARCEL LINE
- ▽ 9' X 10' OVERHEAD DOCK LEVEL DOOR
- ▼ 12' X 14' OVERHEAD GRADE LEVEL DOOR

FIRE DEPARTMENT TURN RADIUS:



PRELIMINARY SITE MASTER PLAN
SCALE: 1" = 100'-0"

1

RMW
Architecture
Interiors

1718 Third Street
Suite 101
Sacramento
California 95811

Office
916 449-1400

rmw.com

OWNER / DEVELOPER:

PRELIMINARY DESIGN DRAWINGS FOR:

ELECTRIC VEHICLE CHARGING STATION AND LOGISTICS FACILITY

SAN BERNARDINO COUNTY, CALIFORNIA

approved for the owner by :

approved for the architect by :

issue :	description :	date :
A	ISSUED FOR CLIENT REVIEW	09-26-2024
B	ISSUED FOR CLIENT REVIEW	11-25-2024

GENERAL CONTRACTOR:

drawn by : TLG plot date : 12-10-2024

checked by : JDL

stamp

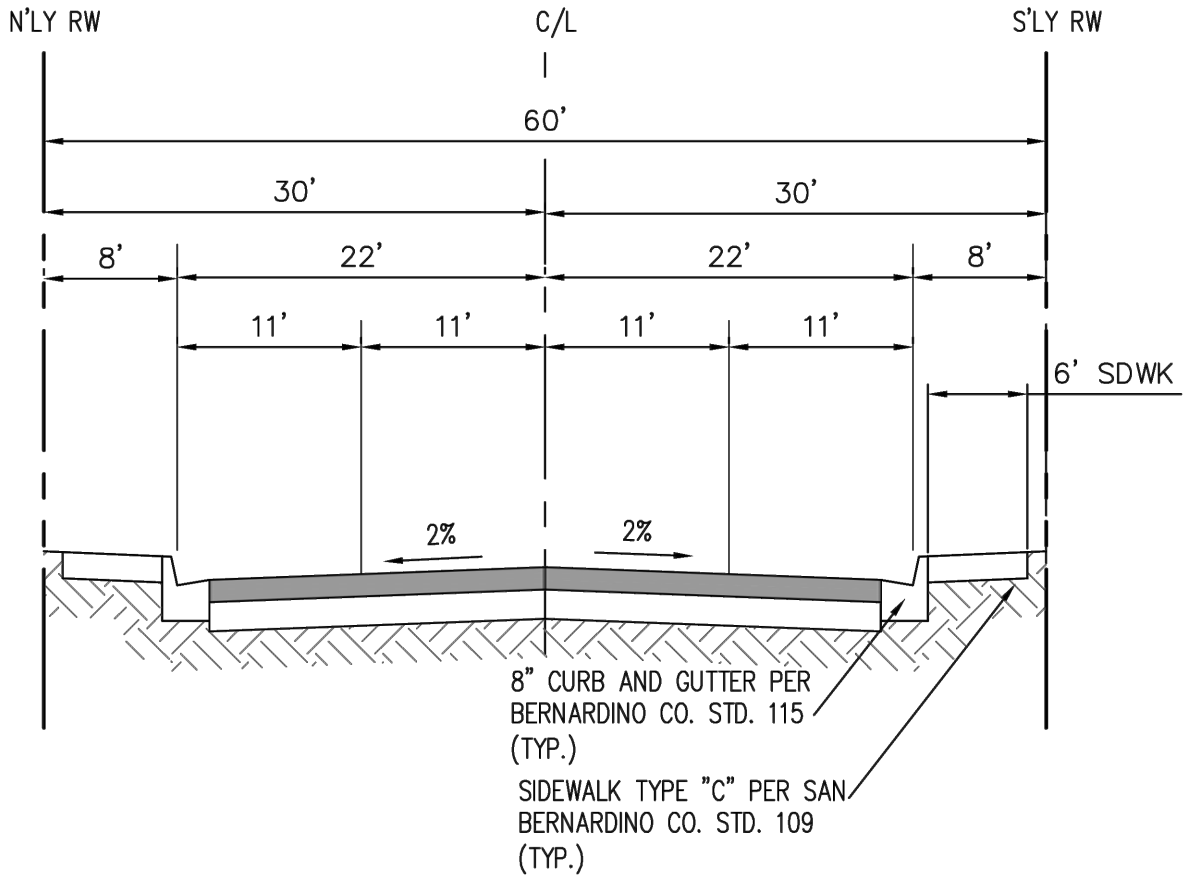
scale : AS NOTED

project number : 2234046.00

PRELIMINARY MASTER SITE PLAN

sheet no. :

A01.0



PROPOSED NEW 60' ROADWAY SECTION

(INDUSTRIAL COLLECTOR SAN BERNARDINO CO. STD. 103b)
NO SCALE

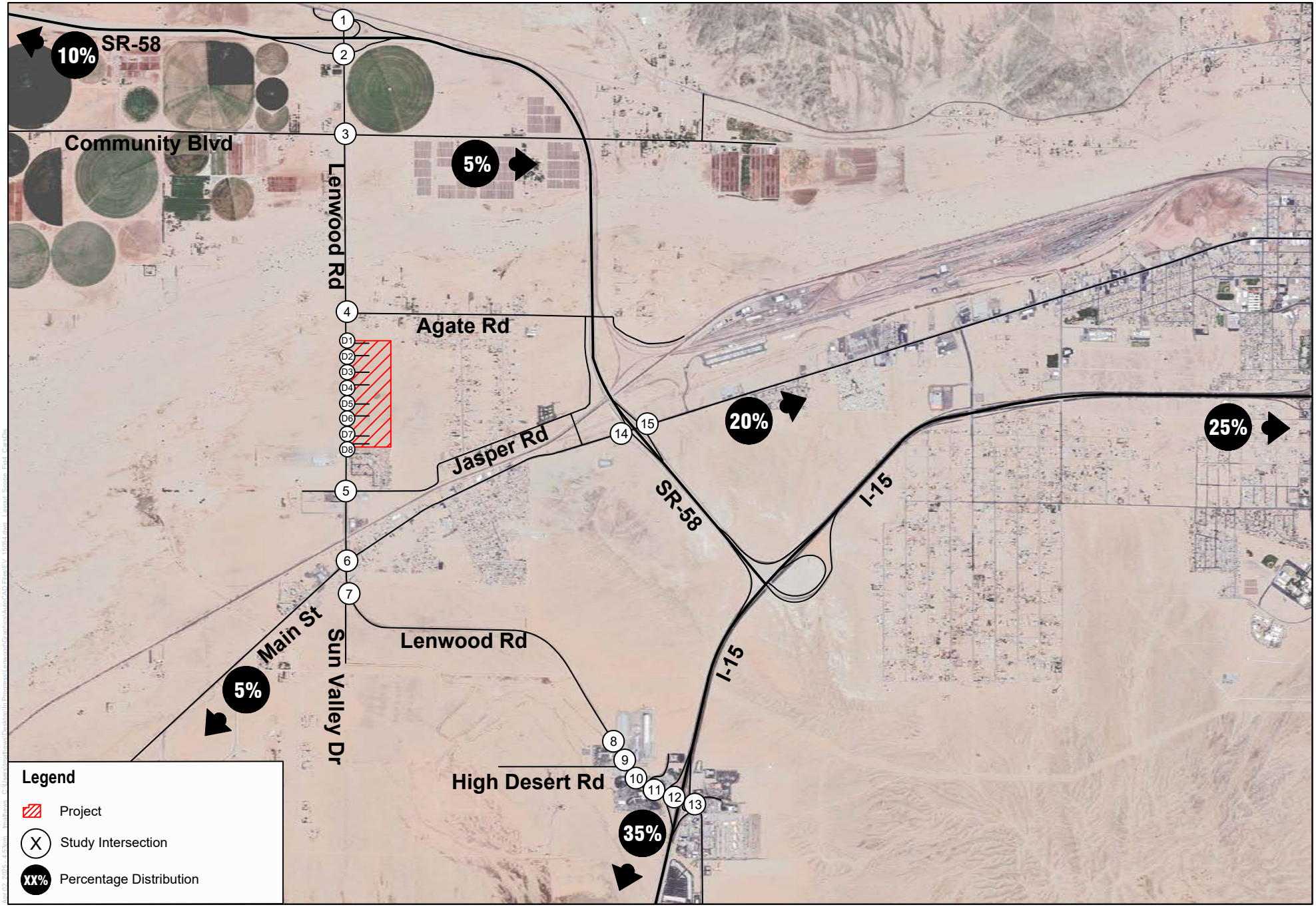
NOTE:

1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED FROM SOILS TEST AND SO INDICATED ON CONSTRUCTION PLANS

SOURCE: Transtech, 2025

FIGURE 3
Proposed New 60' Roadway Section
EV Charging/Logistics Facility Project

DUDEK



SOURCE: Google Earth 2023

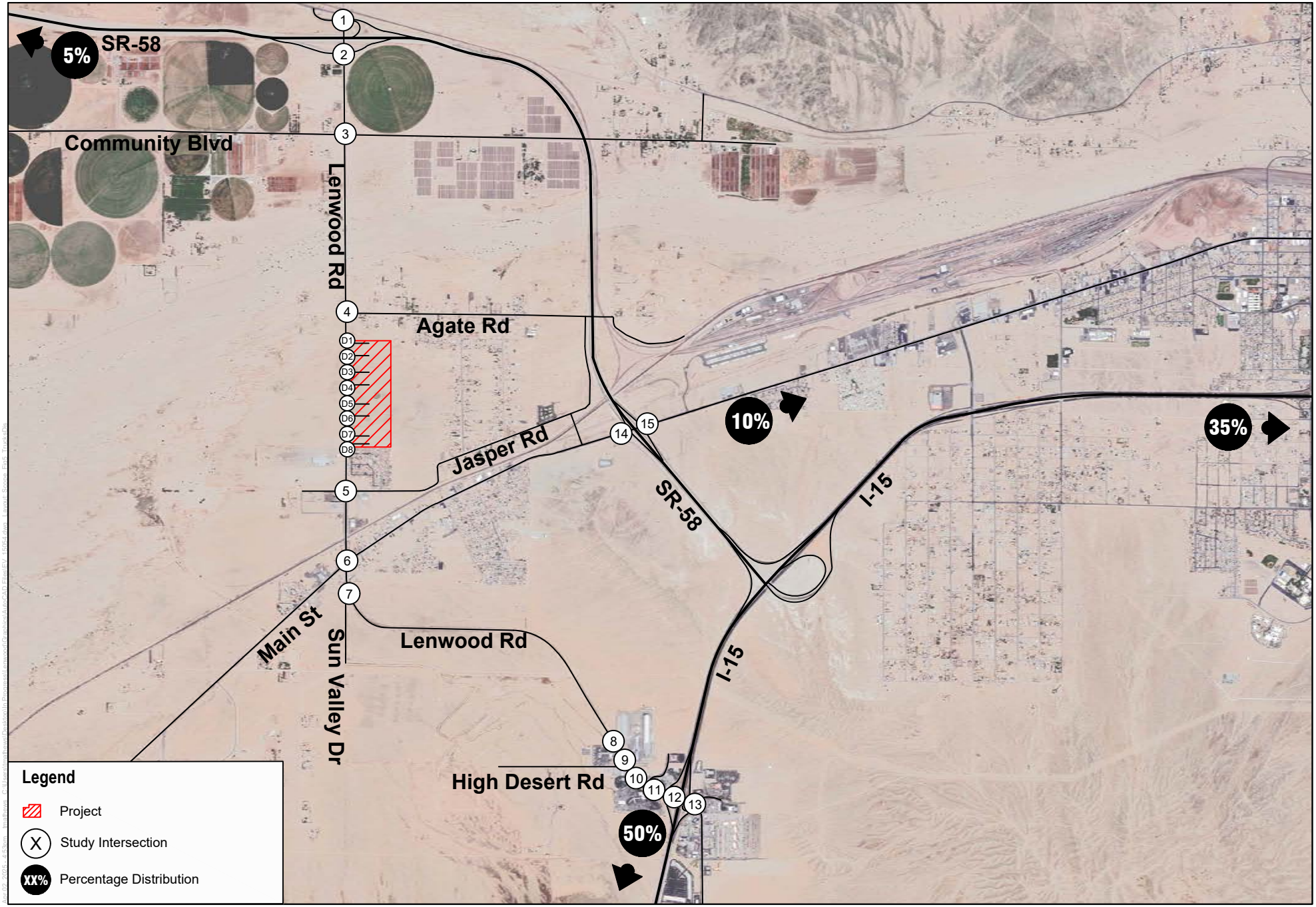
DUDEK

Not to Scale

FIGURE 4

Trip Distribution - Passenger Cars

EV Charging/Logistics Facility Project



SOURCE: Google Earth 2023

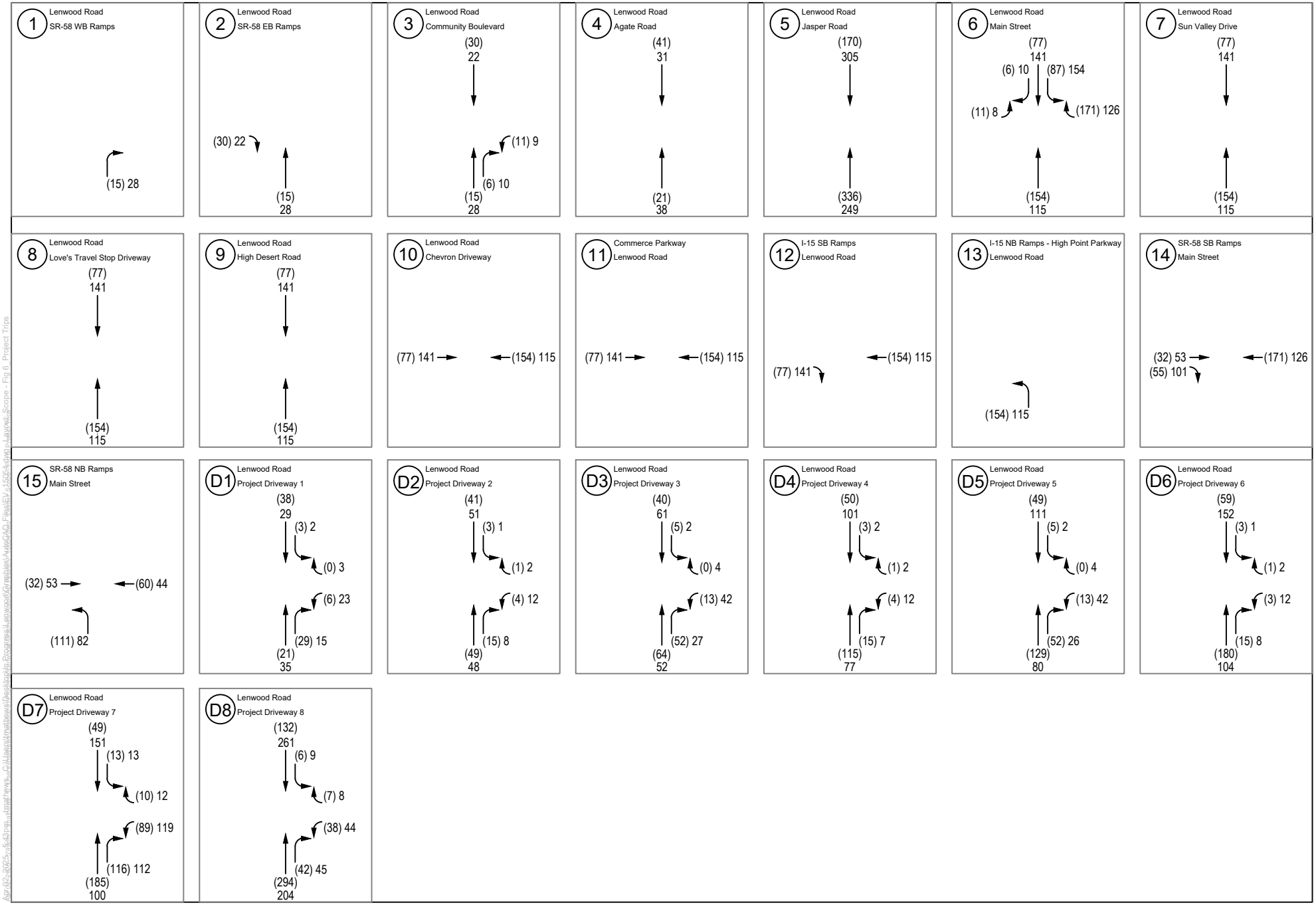
DUDEK

Not to Scale

FIGURE 5

Trip Distribution - Trucks

EV Charging/Logistics Facility Project



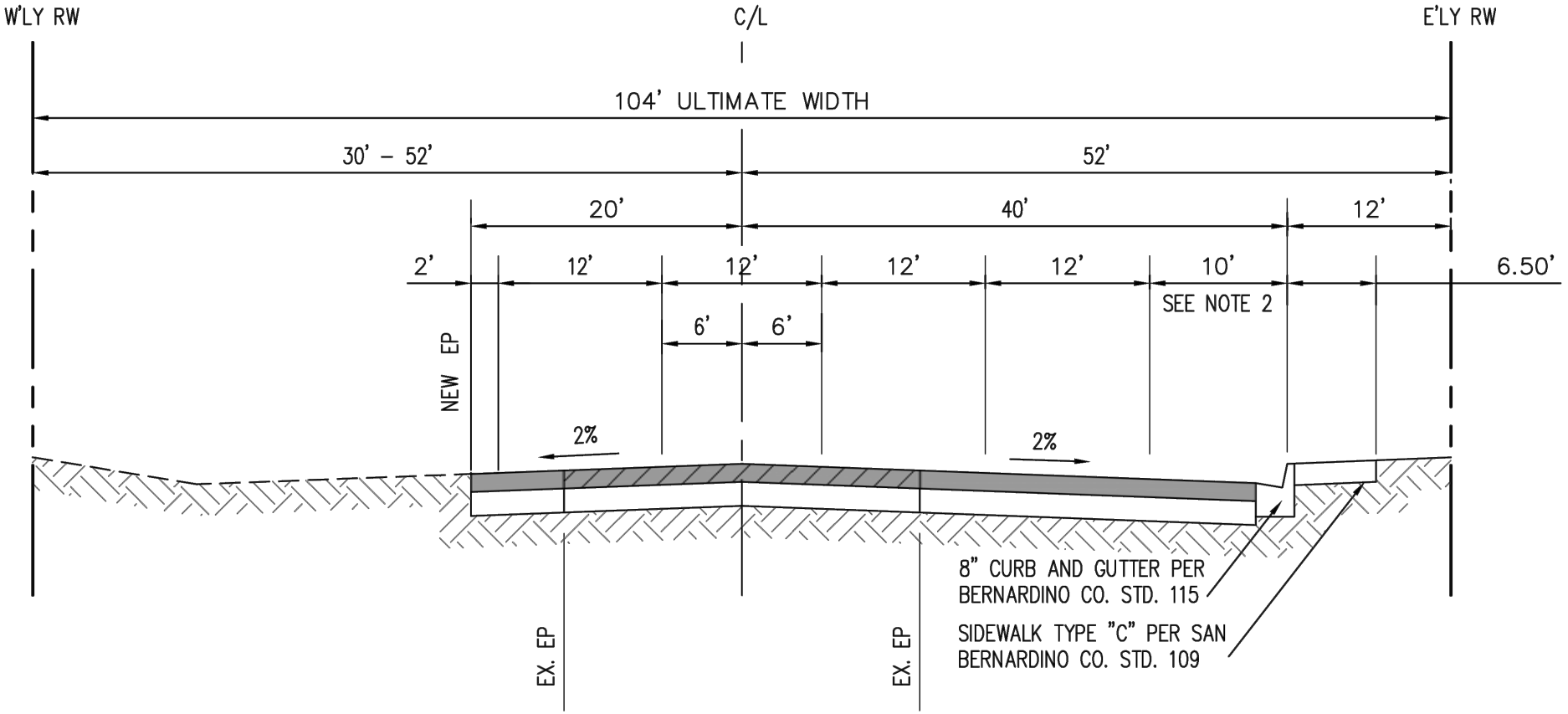
Apr 02, 2025 - 5:43pm - tmathews C:\Users\tmathews\Desktop\In Progress\Lenwood\Graphics\AutoCAD Files\EV - 15654.dwg - Layout: Scope - Fig 6 Project Trips

FIGURE 6

Project Trip Assignment

EV Charging/Logistics Facility Project

DUDEK



PROPOSED LENWOOD ROAD SECTION

WITH CONTINUOUS LEFT TURN LANE

(MAJOR HIGHWAY SAN BERNARDINO CO. STD. 101)

NO SCALE

NOTE:

1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED FROM SOILS TEST AND SO INDICATED ON CONSTRUCTION PLANS
2. TEN FEET (10') SHOULDER AREAS MAY BE DESIGNATED AS BIKE LANES AND EMERGENCY PARKING.

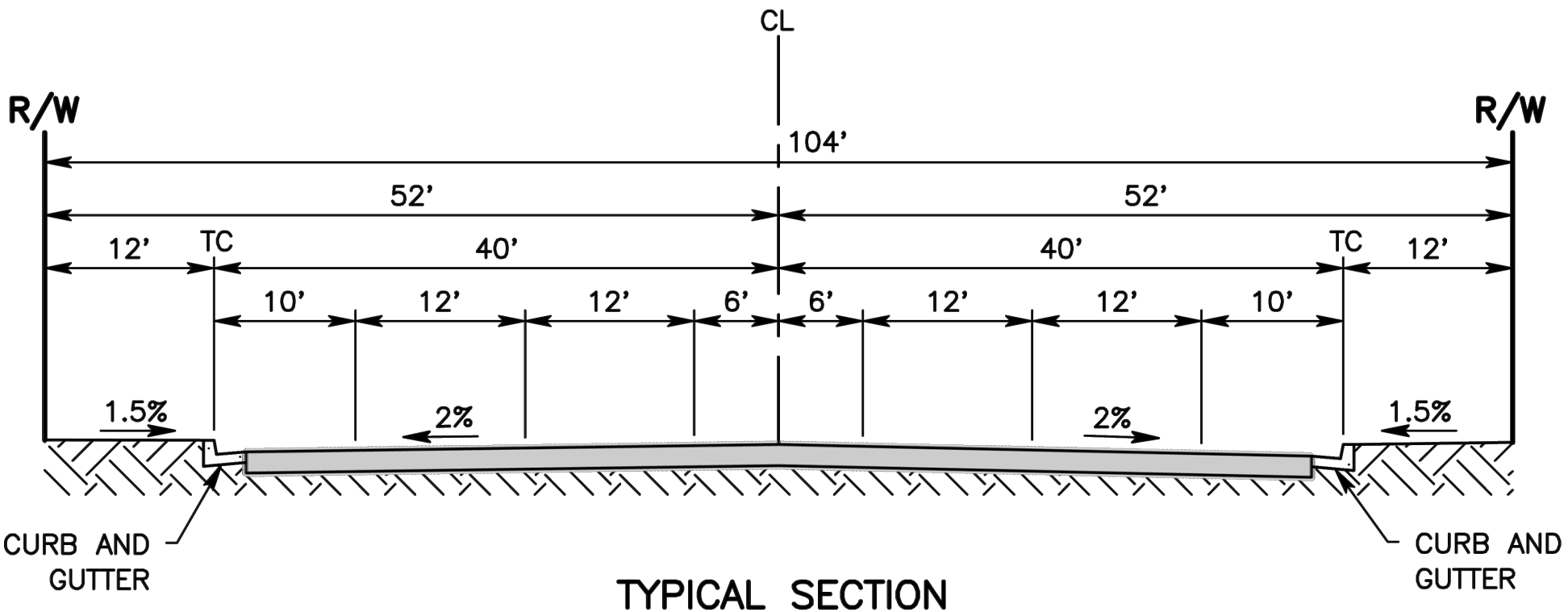
SOURCE: Transtech, 2025

FIGURE 7

Proposed Lenwood Road Section

EV Charging/Logistics Facility Project

DUDEK



TYPICAL SECTION

WITH CONTINUOUS LEFT TURN LANE

NOTES:

1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED FROM SOIL TESTS AND SO INDICATED ON CONSTRUCTION PLANS.
2. DRAINAGE FACILITIES SHALL BE PROVIDED TO DEWATER RAISED MEDIAN AREAS.
3. TEN FEET (10') SHOULDER AREAS MAY BE DESIGNATED AS BIKE LANES AND EMERGENCY PARKING ONLY.
4. IRRIGATION SYSTEM IN MEDIAN AREA SHALL BE DRIP OR BUBBLE SYSTEM.

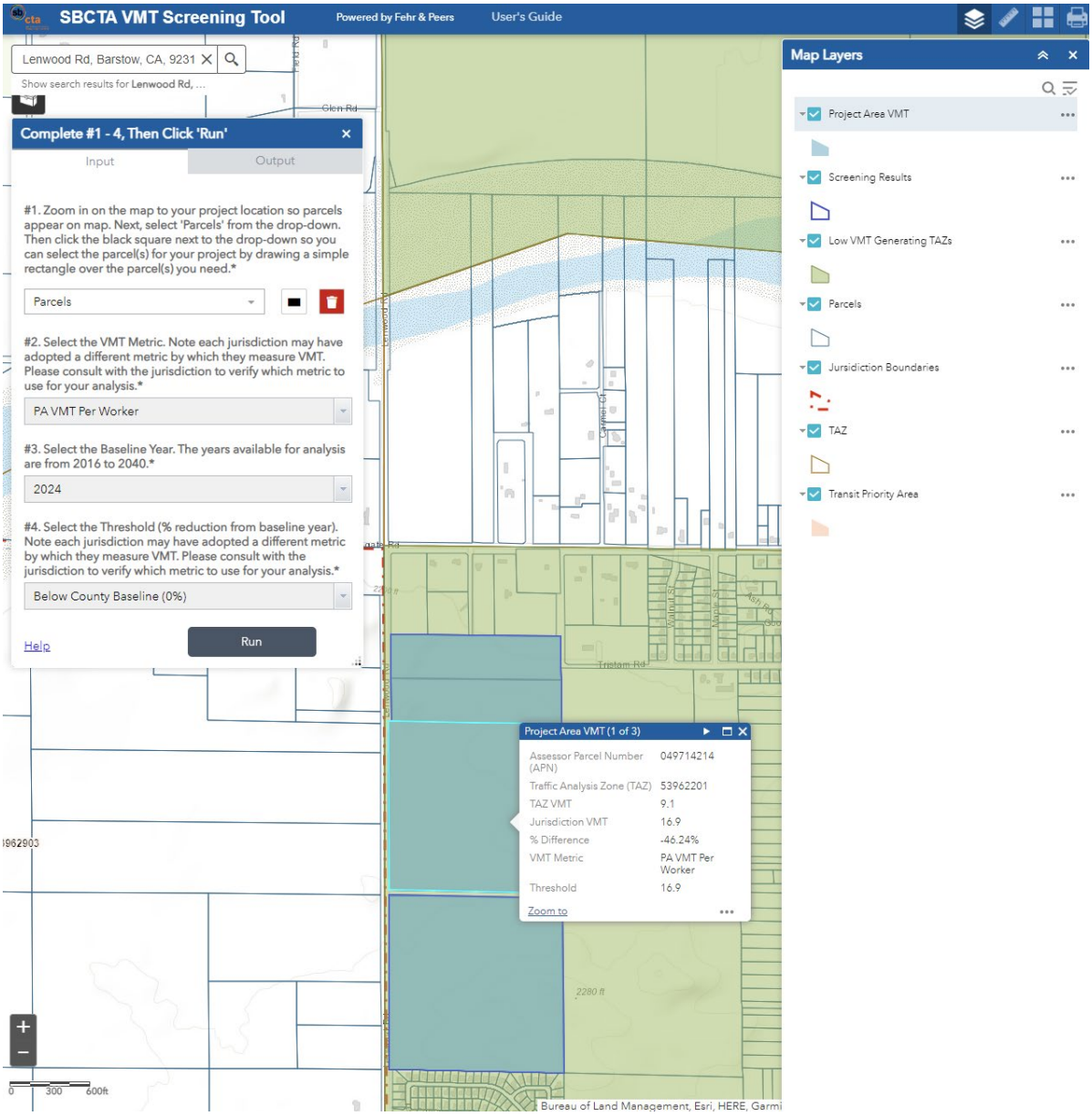
SOURCE: San Bernardino County Department of Public Works, 2024.

FIGURE 8

San Bernardino County Major Highway Typical Cross-Section

ATTACHMENT C

SBCTA VMT Screening Tool results


SBCTA VMT Screening Tool
Powered by Fehr & Peers
User's Guide
Lenwood Rd, Barstow, CA, 9231
Show search results for Lenwood Rd, ...
Complete #1 - 4, Then Click 'Run'
Input
Output
#1. Zoom in on the map to your project location so parcels appear on map. Next, select 'Parcels' from the drop-down. Then click the black square next to the drop-down so you can select the parcel(s) for your project by drawing a simple rectangle over the parcel(s) you need.*
Parcels
#2. Select the VMT Metric. Note each jurisdiction may have adopted a different metric by which they measure VMT. Please consult with the jurisdiction to verify which metric to use for your analysis.*
PA VMT Per Worker
#3. Select the Baseline Year. The years available for analysis are from 2016 to 2040.*
2024
#4. Select the Threshold (% reduction from baseline year). Note each jurisdiction may have adopted a different metric by which they measure VMT. Please consult with the jurisdiction to verify which metric to use for your analysis.*
Below County Baseline (0%)
Help
Run
Map Layers
Project Area VMT
Screening Results
Low VMT Generating TAZs
Parcels
Jurisdiction Boundaries
TAZ
Transit Priority Area
Project Area VMT (1 of 3)
Assessor Parcel Number (APN) 049714214
Traffic Analysis Zone (TAZ) 53962201
TAZ VMT 9.1
Jurisdiction VMT 16.9
% Difference -46.24%
VMT Metric PA VMT Per Worker
Threshold 16.9
Zoom to
Tristam Rd
2280 ft
0 300 600ft
Bureau of Land Management, Esri, HERE, Garmi

ATTACHMENT D

David Evans & Associates Traffic Scoping Comments

DAVID EVANS
AND ASSOCIATES INC.

February 7, 2025 Project No: MRRL0000-2324

Brad S. Merrell, P.E.
President
Merrel Johnson
22221 U.S. Highway 18
Apple Valley, CA 92307

RE: 3RD REVIEW OF THE TRAFFIC IMPACT ANALYSIS SCOPING AGREEMENT FOR THE ELECTRIC VEHICLE CHARGING STATION AND LOGISTICS FACILITY PROJECT, SAN BERNARDINO COUNTY, CALIFORNIA

Dear Brad,

David Evans and Associates, Inc. (DEA) a review of the December 13, 2024, scoping agreement for the Electric Vehicle Charging Station and Logistics Facility project and Attachments prepared by DUDEK. Our comments are summarized in this letter.

We conducted two levels of review:

1) The first level focused on the scope's consistency with the established guidelines for preparing level of service conformance studies (traffic impact analysis) and Vehicle Miles Traveled (VMT) analyses for environmental review under CEQA.

   In 2020, the Barstow City Council adopted a resolution to establish a preferred method of estimating vehicle miles traveled (VMT) and a threshold of significance for identifying impacts in accordance with SB 743. The resolution, *A Resolution of The City Council of The City of Barstow Adopting "Vehicle Miles Traveled" Thresholds of Significance for Purposes of Analyzing Transportation Impacts Under the California Environmental Quality Act*), identifies the method of determining VMT by using SBCTA's San Bernardino Traffic Analysis Model (SBTAM)) and the metric (VMT/Service Population) for measuring project-generated VMT impacts.

   The resolution includes criteria for screening land development proposals for requiring VMT impact analysis under CEQA.

   Because the City of Barstow has not adopted transportation impact analysis guidelines for identifying level of service deficiencies, our review compared the Electric Vehicle Charging Station and Logistics Facility project scope against San Bernardino County's *Transportation Impact Study Guidelines* (July 9, 2019) which was the basis of DUDEK' scope agreement.

2) The second level of review evaluated the results of specific methodologies presented in the scope for accuracy and reasonableness. This level of review is limited to the estimated trip generation of the Electric Vehicle Charging Station and Logistics Facility project.

DAVID EVANS AND ASSOCIATES INC.

The following sections provide our comments on the DUDEK scope reviewed for consistency to the San Bernardino County's guidelines:

1. Project Description

    a. As previously commented, include all land uses in the project description with a breakdown of building square footage for each land use.

2. Project Site Plan

    a. The number of driveways proposed along Lenwood Road is unacceptable. Consolidate driveways to a maximum of four locations. Revise the site plan and trip distribution accordingly.

3. Project Site Access and On-Site Circulation

    a. As previously commented, frontage improvements discussion must include the complete typical section description, i.e.. the 10 foot shoulder.

4. Trip Generation Rates

    a. Provide information on the trip generation calculation for the Truck Wash and Truck Maintenance. Are they included in another land use? The Trip Generation Table does not make reference to either land use.

    b. As previously commented, the peak hour trips calculated for the EV Truck Chargers does not match the assumptions provided on Attachment A Trip Generation Table page 2.

    c. Verify the EV Truck Chargers project trips. If accurate, update the footnote 6 of the assumptions provided on Attachment A Trip Generation Table page 2 detailing the percentage of daily total occurs during AM peak and PM peak.

    d. As previously commented, the EV Truck Chargers peak hour trips PCE calculation needs to be updated based on the revised volumes generated by the changes outlined in comment 3b.

5. Trip Distribution
    a. Verify PM entering volumes.

    b. Balance trip volumes between project driveways.

6. Traffic Study Scenarios

    a. If not provided by the applicant, assume a project opening year two years from the date of the traffic counts (e.g., counts conducted in 2024 – assume opening year of 2026).

    b. The ambient growth rate of 1% assumption and any information supporting the assumptions (e.g., used in previously approved TIAs, derived from the SBTAM model, etc.)

7. Traffic Volumes

    a. As outlined in the San Bernardino County Scope for Traffic Study, traffic counts must not be older than 1 year prior to submittal unless approved by County Traffic.

DAVID EVANS AND ASSOCIATES INC.

Should you have any questions, please call me at 909-912-7304.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

James M. Daisa, TE
Associate / Senior Transportation Project Manager

DAVID EVANS
AND ASSOCIATES INC.

November 18, 2024 Project No: MRRL0000-2324

Brad S. Merrell, P.E.
President
Merrel Johnson
22221 U.S. Highway 18
Apple Valley, CA 92307

RE: REVIEW OF THE TRAFFIC IMPACT ANALYSIS SCOPING AGREEMENT FOR THE ELECTRIC VEHICLE CHARGING STATION AND LOGISTICS FACILITY PROJECT, SAN BERNARDINO COUNTY, CALIFORNIA

Dear Brad,

David Evans and Associates, Inc. (DEA) a review of the June 25,2024, scoping agreement for the Electric Vehicle Charging Station and Logistics Facility project and Attachments prepared by DUDEK. Our comments are summarized in this letter.

We conducted two levels of review:

1) The first level focused on the scope's consistency with the established guidelines for preparing level of service conformance studies (traffic impact analysis) and Vehicle Miles Traveled (VMT) analyses for environmental review under CEQA.

   In 2020, the Barstow City Council adopted a resolution to establish a preferred method of estimating vehicle miles traveled (VMT) and a threshold of significance for identifying impacts in accordance with SB 743. The resolution, *A Resolution of The City Council of The City of Barstow Adopting "Vehicle Miles Traveled" Thresholds of Significance for Purposes of Analyzing Transportation Impacts Under the California Environmental Quality Act*), identifies the method of determining VMT by using SBCTA's San Bernardino Traffic Analysis Model (SBTAM)) and the metric (VMT/Service Population) for measuring project-generated VMT impacts.

   The resolution includes criteria for screening land development proposals for requiring VMT impact analysis under CEQA.

   Because the City of Barstow has not adopted transportation impact analysis guidelines for identifying level of service deficiencies, our review compared the Electric Vehicle Charging Station and Logistics Facility project scope against San Bernardino County's *Transportation Impact Study Guidelines* (July 9, 2019) which was the basis of DUDEK' scope agreement.

2) The second level of review evaluated the results of specific methodologies presented in the scope for accuracy and reasonableness. This level of review is limited to the estimated trip generation of the Electric Vehicle Charging Station and Logistics Facility project.

DAVID EVANS AND ASSOCIATES INC.

The following sections provide our comments on the GTS scope reviewed for consistency to the San Bernardino County's guidelines:

1. Project Description

    a. In the project description breakdown, the commercial uses to be Retail and Fast Food with drive-thru window.

2. Project Site Access and On-Site Circulation

    a. Frontage improvements discussion must include the complete typical section description, i.e.. the 10 foot shoulder.

    b. The site plan is unreadable. Provide a legible site plan.

3. Trip Generation Rates

    a. The trip generation rate calculation for the EV Chargers is acceptable.

    b. The peak hour trips calculated for the EV Truck Chargers does not match the assumptions provided on Attachment A Trip Generation Table page 2. The assumption states that AM peak is 6% of daily and PM is 7% of daily trips. Recalculate these numbers and update the volumes accordingly.

    c. The EV Truck Chargers peak hour trips PCE calculation needs to be updated based on the revised volumes generated by the changes outlined in comment 3b.

4. Trip Distribution

    a. Provide an exhibit showing total PCE project trips at each study intersection by movement.

5. Study Intersections

    a. The identified study intersections in the scope agreement are acceptable.

6. Traffic Study Scenarios

    a. If not provided by the applicant, assume a project opening year two years from the date of the traffic counts (e.g., counts conducted in 2024 – assume opening year of 2026).

    b. Provide the ambient growth rate assumption and any information supporting the assumptions (e.g., used in previously approved TIAs, derived from the SBTAM model, etc.)

7. Vehicle Miles Traveled (VMT)

    a. The VMT screening analysis needs to be included in the scope agreement.

Should you have any questions, please call me at 909-912-7304.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

James M. Daisa, TE

ATTACHMENT E

Fehr & Peers Traffic Scoping Comments

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

MEMORANDUM

To:	Fidel Martinez, Engineering Services Division, City of Barstow
From:	Lisa Valdez, Senior Transportation Planner
Subject:	Electrical Vehicle Charging Station and Logistics Facility Project, Lenwood, San Bernardino County
Date:	June 25, 2024, revised December 13, 2024
cc:	Phil Angelides, EVC Partners LLC
Attachment(s):	Attachment A: Project Trip Generation table (Table 1) Attachment B: Figures 1-5 Attachment C: SBCTA VMT Screening Tool results Attachment D: DEA Comments on Transportation Scoping memo Attachment E: County of San Bernardino Scoping Correspondence and Approval Attachment F: Original Approved Scoping Memo to County, November 2023 (project has since been modified)

Dudek has prepared the following transportation scoping memorandum for the proposed Lenwood EV Charging Station and Logistics Facility Project (project) to be located on Lenwood Road between California Highway 58 (CA 58) and Interstate 15 (I-15), in the County of San Bernardino (Figure 1, Project Location). This scoping memo has been revised based on comments received from David Evans and Associates (November 18, 2024; see Attachment D) on the transportation scoping memo submitted to the City of Barstow on June 25, 2025. This scoping memo was originally approved by San Bernardino County in November 2023 (see Attachment F). The project was modified several times since November and scoping for the current project (as described in this memo) was approved by the County in April 2024 (see Attachment E).

The memo describes the anticipated trip generation and trip distribution of the proposed project and provides the proposed analysis methodology for the Transportation Impact Study (TIS) based on the requirements and policies from the San Bernardino County's (County) Transportation Impact Study Guidelines (July 2019), the San Bernardino County Transportation Authority's (SBCTA) Congestion Management Program (CMP), the City of Barstow Circulation Element (2015), and Caltrans Transportation Impact Study Guide (May 2020).

Project Description

The approximately 100-acre Project site includes four parcels (049-714-203, 049-714-204, 049-714-214, and 049-714-215) and is located on Lenwood Road between CA 58 and Interstate-15, approximately one mile west of CA 58 and four miles west of downtown Barstow. The Project site is undeveloped and surrounded by undeveloped lands with the exception of a single-family residential neighborhood, High Desert Estates located adjacent to the southern Project boundary. The Project is proposing development on approximately 20-acres in the southern portion of the site with an electric vehicle charging hub for light duty/passenger vehicles and medium and heavy-duty trucks. The site will have a range of EV chargers to serve different charging needs (e.g., automobiles vs medium and heavy-duty trucks; slower chargers for overnight truck charging vs: fast charging for trucks, etc.). The EV charging station will include a commercial building of up to 15,000 square feet (SF) that will contain ancillary uses

(e.g., food, convenience services, amenities for site users, etc.) for those using the station, as well as for local residents and nearby light industrial uses. The remaining site is proposed to include three warehouse buildings of 447,144 SF each, for a total of 1,341,432 SF of light industrial warehouse, logistic, and distribution facilities. Access would be provided from Lenwood Road via eight driveways.

Proposed Frontage Improvements

Lenwood Road is currently a two-lane north-south oriented roadway that is classified as a 104-foot wide Major Highway in the County's Circulation Master Plan. The project would improve the east side of Lenwood Road to its ultimate half-width along the project site's frontage including the construction of sidewalk, curb and gutter. This half section would contain two northbound travel lanes and half of a 12-foot center lane. In addition, the project would add 6 feet of paving to the west half of Lenwood Road to accommodate the balance of the center striped median lane and would repave the existing southbound travel lane, to the extent such paving and re-paving have not already been completed by others. These proposed improvements may be modified upon further review of the County Public Works and Land Use Services Departments. The right-of-way dedication for and construction of the ultimate width of the west side of Lenwood Road will be determined by future agreement between the City of Barstow and the County.

Trip Generation

The estimated project trip generation is summarized in Table 1 (attached). Trip generation estimates for the proposed commercial and warehouse uses are based on daily and AM and PM peak hour trip generation rates obtained from the Institute of Transportation Engineers (ITE) Trip Generation Handbook, 11th Edition (2021). Since there are no industry standard rates for EV charging stations, trip rates for the charging station (by charging type) are based on assumptions regarding the maximum charging capacity, utilization rates, and other anticipated site operations. The assumptions are outlined in detail in the trip generation table notes.

Additionally, Passenger car equivalent (PCE) factors were applied to the trip generation estimates to account for truck traffic. The San Bernardino County Congestion Management Plan (CMP) indicates that projects with high truck percentages should convert project trips to PCE. A 1.5 PCE factor was applied to 2-axle trucks, 2.0 PCE for 3-axle trucks, and a 3.0 PCE factor was applied to 4-axle trucks per the San Bernardino County CMP. As the ITE Trip Generation Handbook does not provide a breakdown of truck traffic by axle classification, vehicle mix data and percentages are also applied to the project trip generation estimates from the 2014 SCAQMD Warehouse Truck Trip Study Data Results and Usage (SCAQMD Study).

As shown in the Table 1, the project would generate 5,580 daily trips, 436 AM peak hour trips, and 470 PM peak hour trips. This is equivalent to 7,466 daily PCEs, 581 AM peak hour PCEs, and 623 PM peak hour PCEs.

Trip Distribution

Project trip distribution percentages are based on logical travel paths to and from the project site to major highway corridors and the City's designated truck routes. The preliminary project trip distribution percentages are shown in Figures 3 and 4, for passenger vehicle and truck trips, respectively. The total project trip assignment (in PCE) is provided as Figure 5.

Level of Service Analysis

Per the County's TIS guidelines, an LOS analysis would be required at intersections (of Collector or higher designated streets) where projects would generate 50 or more peak hour trips. As such, the following intersection and roadway segments were selected for analysis:

Intersections

1. Lenwood Road/SR-58 WB Ramps
2. Lenwood Road/SR-58 EB Ramps
3. Lenwood Road/Community Boulevard
4. Lenwood Road/Agate Road
5. Lenwood Road/Jasper Road
6. Lenwood Road/Main Street
7. Commerce Parkway/Lenwood Road
8. I-15 SB Ramps/Lenwood Road
9. I-15 NB Ramps - High Point Parkway/Lenwood Road
10. SR-58 SB Ramps/Main Street
11. SR-58 NB Ramps/Main Street

Study Roadway Segments

1. Lenwood Road, south of Agate Road
2. Lenwood Road, north of Cam Del Sol

Analysis Scenarios

The intersection LOS analyses will be prepared for the weekday AM and PM peak hours at the study area intersections listed above for the following analysis scenarios:

- Existing conditions
- Background conditions (no Project) –Defined as Opening Year Conditions with ambient growth and traffic from approved projects
- Background conditions plus Project - Defined as background conditions plus traffic from the proposed project
- Cumulative Year (no project) - Defined as ambient growth to the Cumulative Horizon plus traffic approved and pending projects in the area
- Cumulative Year plus project - Defined as Cumulative No Project Conditions plus traffic from the proposed Project.

Project Opening Year baseline conditions will be developed from a "build-up" method based on the application of cumulative project trip generation estimates and an ambient growth rate (1%), added to the existing traffic volumes. The growth rate is based on the growth rate identified for the Desert region in the County's Transportation Scoping form (Attachment E). Trip generation estimates for cumulative projects in the Opening Year condition will be based on trip rates in ITE's Trip Generation, 11th Edition, or from their respective traffic studies and/or CEQA documents

(if available). Dudek will obtain a list of cumulative projects from the City of Barstow Planning Department and the County of San Bernardino Planning Division.

Horizon Year (2040) traffic volumes will be obtained from the SBCTA's San Bernardino Transportation Analysis Model (SBTAM). Baseline and Plus Project traffic volumes from SBTAM will be post-processed to model specifications.

LOS analyses will be prepared consistent with County's requirements which is based on the Highway Capacity Manual (HCM) methodology. The operational analysis will be conducted using Synchro/SimTraffic analysis software to reflect the effect of downstream congestion more accurately on intersection operations. In addition, queues will be determined at key storage (turn) lanes.

Traffic Counts

New AM and PM peak hour and daily roadways traffic counts were collected at the study area intersections and roadways on May 11, 2023 during a non-holiday week while adjacent schools were in session.

Vehicle Miles Traveled Screening Analysis and Approach

Consistent with the screening thresholds identified in the County Guidelines, the SBCTA VMT Screening Tool was used to aid in the VMT screening process. The County Guidelines state that a project may have a less than significant impact and screen out of requiring a project-level VMT analysis if it meets at least one of the County's following VMT screening criteria:

- Local Serving Project Screening
- Projects Generating Less than 110 Daily Vehicle Trips
- Transit Priority Area (TPA) Screening
- Low VMT Area Screening

Local Serving Project Screening

The County Guidelines suggest Local-Serving Retail under 50,000 square feet and Local Essential Services such as K-12 schools, day care centers, and community institutions shortens nondiscretionary trips by putting those goods and services closer to residents, resulting in an overall reduction in VMT.

The Project includes amenities that cater to both local residents and motorists traveling along Lenwood Road, I-15, and SR-58. It includes EV charging facilities that will primarily serve vehicles already using the adjacent freeways. This component, although not strictly local-serving in nature, does not generate additional trips that were not already occurring. By offering dining, retail/convenience shopping, and EV charging opportunities, the Project is expected to shorten vehicle trips for both local residents and passing motorists. Thus, the Project's EV charging and retail components qualify for exemption from a VMT assessment under the County Guidelines. Therefore, the Local Serving Project screening criteria is partially met for the EV charging station and commercial building.

Projects Generating Less Than 110 Daily Vehicle Trips

The County Guidelines state projects generating less than 110 daily vehicles trips are presumed to have a less than significant impact on VMT. As previously discussed, the Project is forecast to generate 5,580 daily trips and is above the 110 daily trip threshold. Therefore, this criterion is not met.

Transit Priority Area (TPA) Screening

The County Guidelines state that projects located within a TPA (i.e., within ½ mile of an existing "major transit stop" or an existing stop along a "high-quality transit corridor") may be presumed to have a less-than-significant impact absent substantial evidence to the contrary. Based on the Screening Tool results presented in Attachment C, the project site is not located within ½ mile of an existing major transit stop, or along a high-quality transit corridor. Therefore, the TPA screening criteria is not met.

Low VMT Area Screening

As noted in the County Guidelines, "development in efficient areas of the County will reduce VMT per person/employee and is beneficial to the region". The County Guidelines state that projects with VMT per person/employee lower than 4% below the existing VMT per person for the unincorporated County are considered to have a less-than-significant VMT impact.

It is general industry practice to perform a secondary evaluation to identify if a project is consistent with the existing land use within that traffic analysis zone or Transportation Analysis Zone (TAZ) and use professional judgement that there is nothing unique about the project that would otherwise be mis-represented using data from the travel demand model. Existing land use information was examined in the SBTAM model for the project's TAZ 53962201 and was found to contain land use information that would be inconsistent with the project. Therefore, the project does not qualify for this screening criteria.

The project's EV charging station and commercial component was found to meet the Local Serving Project screening criteria. However, the remaining industrial component of the project does not meet eligible screening criteria. Therefore, a project-level VMT analysis will be prepared, as further described below.

VMT Analysis Approach

Dudek will prepare a project-level VMT analysis consistent with the County's requirements and the Governor's Office of Planning and Research's (OPR) Technical Advisory on Evaluating Transportation Impacts in CEQA (December 2018). The Project's VMT and the forecast regional VMT will be calculated using the SBTAM. Dudek will contract with the transportation firm authorized to run the model. The traffic analysis zone or TAZ of the Project site will be modified with the Project's proposed land uses, and a Select Zone model run will be performed to determine the Project's trip assignment. As part of the Select Zone run, the VMT estimate of the Project's TAZ will be determined. Then, the regional VMT estimate for the study area region (extent to be determined by the County) will also be provided from SBTAM. VMT estimates will be analyzed for the Baseline plus Project and Cumulative plus Project conditions.

If VMT impacts are identified, Dudek will coordinate with the County to determine the appropriate VMT reduction strategies provided in their VMT guidelines, and other resources noted in the OPR and Caltrans Technical Advisories (or other approved sources) to mitigate Project impacts.

Access, Circulation, and Safety

Dudek will qualitatively analyze the transit, pedestrian, and bicycle facilities that serve the project site. Project access and on-site circulation will be based on the County's Standard Plans/Drawings for access and on-site circulation design requirements. Vehicular queuing at the project's driveways will be analyzed for adequacy based on the 95th percentile (design) queues. For any significant project traffic impacts found, Dudek will determine appropriate and feasible mitigation measures to offset significant project impacts.

ATTACHMENT A

Trip Generation Table

Table 1 - Electric Vehicle Charging Station and Logistics Facility Project Trip Generation Summary

Land Use	ITE Code	Size/Units	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
TRIP RATES [1]									
Strip Retail Plaza	822	TSF	54.45	1.42	0.94	2.36	3.30	3.30	6.59
Fast food with drive-thru	934	TSF	467.48	22.75	21.86	44.61	17.18	15.85	33.03
EV Charging Station	N/A	see assumptions below[6]							
High-Cube Fulfillment Center Warehouse (non-sort)	155	TSF	1.81	0.12	0.03	0.15	0.06	0.10	0.16
TRIP GENERATION									
Strip Retail[2]	822	12 TSF	653	17	11	28	40	40	79
Fast food with drive-thru[2]	934	3	1,402	68	66	134	52	48	99
EV Charging- Autos	N/A	8 fast chargers	439	13	13	26	15	15	30
EV Charging- Trucks[6]	N/A	30+15 fast chargers	658	23	23	46	24	24	47
Warehouse	155	1341.432 TSF	2,428	163	38	201	84	131	215
		Subtotal (Non-PCE)	**5,580**	**284**	**151**	**436**	**213**	**257**	**470**
TRIP GENERATION BY VEHICLE MIX (Non-PCE)									
Vehicle Mix- Commercial									
Passenger Vehicles	100.0%		2,056	85	77	162	91	87	178
Vehicle Mix- Auto Chargers									
Passenger Vehicles	100.0%		439	13	13	26	15	15	30
Vehicle Mix- EV Truck Chargers[3]									
2-Axle Trucks	40.0%		263	9	9	18	9	9	19
3-Axle Trucks	10.0%		66	2	2	5	2	2	5
4+-Axle Trucks	50.0%		329	12	12	23	12	12	24
EV Truck Chargers Total (Non-PCE)			**658**	**23**	**23**	**46**	**24**	**24**	**47**
Vehicle Mix- Warehouse[4]									
Passenger Vehicles	72.5%		1,760	118	28	146	61	95	156
2-Axle Trucks	4.6%		112	7	2	9	4	6	10
3-Axle Trucks	5.7%		138	9	2	11	5	7	12
4+-Axle Trucks	17.2%		418	28	7	35	14	23	37
Warehouse Total (Non-PCE)			***2,428***	***162***	***39***	***201***	***84***	***131***	***215***
Total Site									
		Total Passenger Vehicles	4,255	217	118	334	167	197	364
		Total Trucks	1,325	68	34	101	47	60	106
Total Trip Generation (Non-PCE)			**5,580**	**284**	**151**	**436**	**213**	**257**	**470**
TRIP GENERATION BY VEHICLE MIX (PCE)									
Commercial Total (PCE)			**2,056**	**85**	**77**	**162**	**91**	**87**	**178**
Auto Chargers Total (PCE)			**439**	**13**	**13**	**26**	**15**	**15**	**30**
EV Truck Chargers (PCE, by Vehicle Classification)									
Vehicle Mix	**PCE**[5]								
Passenger Vehicles	n/a								
2-Axle Trucks	1.5		395	14	14	28	14	14	28
3-Axle Trucks	2.0		132	5	5	9	5	5	9
4+-Axle Trucks	3.0		986	35	35	69	35	35	71
		Total Passenger Vehicles	0	0	0	0	0	0	0
		Total Trucks	1,513	53	53	106	54	54	108
		EV Charging Total (PCE)	**1,513**	**53**	**53**	**106**	**54**	**54**	**108**

Warehouse (PCE, by Vehicle Classification)								
Vehicle Mix	**PCE[5]**							
Passenger Vehicles	1.0	1,760	118	28	146	61	95	156
2-Axle Trucks	1.5	168	11	3	14	6	9	15
3-Axle Trucks	2.0	277	19	4	23	10	15	25
4+-Axle Trucks	3.0	1,253	84	20	104	43	68	111
	Total Passenger Vehicles	1,760	118	28	146	61	95	156
	Total Trucks	1,698	114	27	141	59	92	151
	Warehouse Total (PCE)	**3,458**	**232**	**55**	**287**	**120**	**187**	**307**
Total Site Trip Generation (PCE)		**7,466**	**383**	**198**	**581**	**280**	**343**	**623**

NOTES: Rounding discrepancies may occur. TSF = Thousand Square Feet**;** PCE = Passenger Car Equivalent

[1]Trip rates from the Institute of Transportation Engineers (ITE), *Trip Generation, 11th Edition, 2021.*

[2]Assumes commercial land use consists of 12,000 SF of general commercial and 3,000 SF of fast food restaurant with drive-through.

[3]Based on assumed project operations, 40% of trucks would be 2-axle, 10% would be 3-axle, and 50% would be 4+-axle.

[4]Vehicle mix and percent from SCAQMD Warehouse Truck Trip Study Data Results and Usage, July 17, 2014.

[5]Passenger Car Equivalent (PCE) factors from the San Bernardino County CMP, Appendix B - Guidelines for CMP Traffic Impact Analysis Reports in San Bernardino County, 2016.

[6]Charging Station Assumptions:

Assumptions for the EV Charging Station

EV Autos- 8 DC Fast chargers			
Count	8		
Max rate (kw)	250		
Avg Battery Capacity (kWh)	75		
Avg Amount Charged	70%		
kWh Charged / Visit	52.5		
Fast Charger Dwell Time (hrs)	0.21		
Theoretical Max (auto/hr)	38.10		
Theoretical Maximum (vehicle/day)	914.29		
Average Utilization	24%	https://www.upside.com/blog/why-measuring-capacity-utilization-is-essential-for-fuel-retailers	
Average vehicles per day	219.43	438.86	daily trips
AM Peak, equal split, 6% of daily total occurs during AM peak	6%	Based on ITE peak hour rates for truck stop	
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	7%	Based on ITE peak hour rates for truck stop	

EV Trucks- 30 DC Fast chargers (slower) + 15 DC Fast chargers					
See EV Charging Calculator tab for details	**LD Trucks**	**MD Trucks**	**HD Trucks**		
Total Theoretical Max / Hour	102.9	51.4	21.4		
Theoretical Maximum (vehicle/day)	2469.6	1233.6	513.6		
Average Utilization	40%	40%	40%		
Utilization Rate Avg Vehicle/Day	987.8	493.4	205.4	1686.7	
Percent of Truck Traffic (same as warehouse vehicle mix)	40.0%	10.0%	50.0%		
Vehicles/Day Based on % of Traffic	132	33	164	329	daily trips
Average Daily Trucks	263	66	329	658	daily trips
AM Peak, equal split, 6% of daily total occurs during AM peak	6%	Based on ITE peak hour rates for truck stop			
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	7%	Based on ITE peak hour rates for truck stop			

ATTACHMENT F

City of Barstow Traffic Scoping Comments (via email)

From: Matthew Summers <msummers@chwlaw.us>
Sent: Tuesday, March 18, 2025 10:11 PM
To: Phil Angelides (RCI); Rochelle Clayton; Chris Heldreth; Mark D. Rowan; Mark Teague; Colin Drukker; Carmen A. Brock
Cc: bvail river-west.com; Greg Devereaux; David Mlynarski; Jamie Durrell; Maria Oba Minassian; Brad S. Merrell; Harry, Jennifer; amrit@meyersnave.com; Lindgren, Adam; Adam N. Mentzer
Subject: RE: Upcoming meeting - 3/19/25 1:00 pm - 2:30

Thank you Phil, and all. For tomorrow's meeting re the Lenwood EV Charging and Logistics Project – below is an agenda and attached are the City's comments on the traffic scoping memo and a proposed City costs reimbursement agreement for review.

Lenwood EV Warehouse Project Meeting 3/19/25 Agenda

1) Introductions -

-New Barstow City Manager Rochelle Clayton

2) BIG Project Timeline Overview

-Goal for Draft EIR Release – End of 2025

3) Application Processing Costs and Plan

-Timing and plan for Lenwood Project and County application process, including EIR

-Timing and plan for processing application to City for extra-territorial sewer service legislative City Council approval – including City application and processing fees

-City processing costs include: sewer needs analysis, traffic analyses, staff and consultant time

-See attached draft application processing costs reimbursement agreement

-Timing and plan for processing application to LAFCO for extra-territorial sewer service approval

4) Traffic Analyses and Road and Sewer Infrastructure Costs/Improvements

-For traffic scoping agreement comments – review and discussion of attached comments from David Evans & Associates & Fehr and Peers – City traffic consultants & from Kimley-Horn – BNSF Planning Consultant. In the scoping agreement "Level of Service Analysis" section, please also add the following intersections to list of intersections to be analyzed:

- Lenwood Road/Sun Valley Drive
- Lenwood Road/Love's Travel Strop Driveway
- Lenwood Road/High Desert Road
- Lenwood Road/Chevron Driveway

-Discussion of timing/plan for sharing trip generation figures for BIG and Lenwood Project

-Discussion re Lenwood Project payment for fair share of infrastructure costs, including needed roadway and circulation system improvements and sewer infrastructure and connection costs.

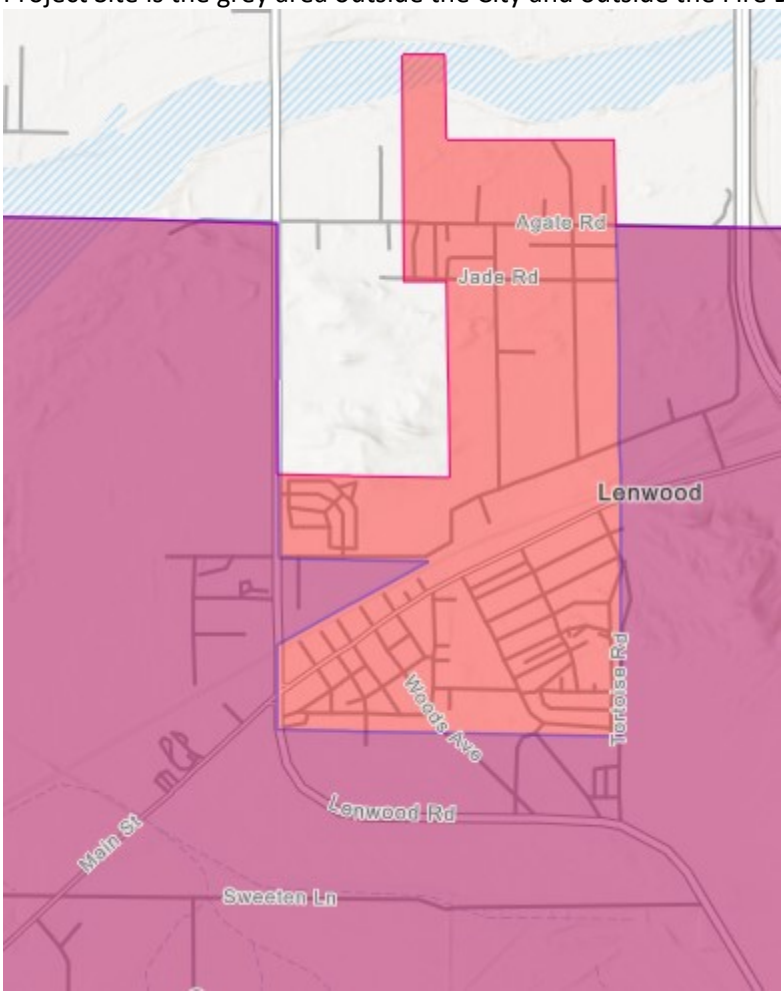
5) Fire Service Plan

-Is the plan to have County Fire service this facility, or annex into the Barstow Fire Protection District? See Map.

6) Opportunities for Synergy between BIG and Lenwood EV Project

7) Next Steps and Next Meeting

Fire Service Question: Barstow City and Barstow Fire Protection District Map – Purple is City and Red is Fire District. Project Site is the grey area outside the City and outside the Fire District, in the center of the snip below.



Meeting Participants:

City:

Rochelle Clayton, City Manager
Chris Heldreth, Community Development Director
Mark Rowan, City Engineer's Office
Robert Kilpatrick, City Traffic Consultant
Mark Teague, Placeworks, City Planning Consultant
Colin Drukker, Placeworks, City Planning Consultant
Matthew Summers, Colantuono, Highsmith & Whatley, PC, City Attorney
Carmen Brock, Colantuono, Highsmith & Whatley, PC, City CEQA Counsel

County:

Jon Braginton, Land Use Services
Vanessa Norwood, Land Use Services

BNSF:
Jennifer Harry, Kimley Horn, BNSF Planning Consultant
Amrit Kulkarni, Meyers Nave, BNSF Land Use Counsel
Adam Lindgren, Meyers Nave, BNSF Land Use Counsel

As the City stated in our prior meeting, and in my prior letter, the City is not opposed to this EV charging and logistics project, and of course cannot yet express support for the project given the lack of completed environmental impacts review. The City recognizes the value to the community of the proposed electric vehicle charging station and looks forward to the jobs that a new logistics facility would create. The City also appreciates the commitment by EVC Partners LLC to cover its fair share of infrastructure costs, including needed roadway and circulation system improvements and sewer infrastructure and connection costs spurred by the project, all as part of the potential legislative approval. We look forward to tomorrow's meeting.

Thank you,
-Matt

Matthew T. Summers
Shareholder
Colantuono, Highsmith & Whatley, PC
790 E. Colorado Blvd., Suite 850 | Pasadena, CA 91101
Direct 213-542-5719 | **Main** 213-542-5700
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From: Phil Angelides (RCI) <phil@riverviewci.com>
Sent: Tuesday, March 18, 2025 5:48 PM
To: Matthew Summers <msummers@chwlaw.us>; rclayton@barstowca.org; Maria Oba Minassian <mobaminassian@chwlaw.us>
Cc: bvail river-west.com <bvail@river-west.com>; Greg Devereaux <gregdevereaux@outlook.com>; David Mlynarski <david.mlynarski@transtech.org>; Jamie Durrell <jdurrell@angelides.com>
Subject: RE: Upcoming meeting - 3/19/25 1:00 pm - 2:30
Importance: High

Matt/Maria –

Can you provide us with a list of all who have confirmed for the Zoom meeting at 1-2:30 pm tomorrow?

Thanks!

Phil

Phil Angelides
Riverview Capital Investments
725 30th Street, Suite 205

ATTACHMENT G

Transportation Scoping Memo Response to Comments

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

MEMORANDUM

To:	City of Barstow - Rochelle Clayton, City Manager; Matthew Summers, City Attorney; Chris Heldreth, Community Development Department Director
From:	Lisa Valdez, Senior Transportation Planner
Subject:	Electrical Vehicle Charging Station and Logistics Facility Project, Lenwood, San Bernardino County, Transportation Scoping Response to Comments
Date:	April 4, 2025
cc:	Vanessa Norwood, Contract Planning Manager, County of San Bernardino Land Use Services; Jon Braginton, Planner, County of San Bernardino Land Use Services; Phil Angelides, EVC Partners LLC; Brian Vail, EVC Partners; Greg Devereaux, Worthington Partners; David Mlynarski, Transtech

This memorandum summarizes our response to comments on the Transportation Scoping memorandum (Scoping Memo) comments provided by David Evans and Associates dated February 7, 2025 (Attachment D of Scoping Memo), Fehrs and Peers dated March 7, 2025 (Attachment E of Scoping Memo), and email correspondence provided by the City of Barstow on March 18, 2025 (Attachment F of Scoping Memo). This memorandum has been prepared in support of the revised Scoping Memo provided to the City of Barstow and County of San Bernardino on April 4, 2025, and is also included as Attachment G of the Scoping Memo. Figures and tables referenced below are provided in the revised Scoping Memo.

David Evans & Associates Comments

1. **Project Description:** Table 1 has been added to the Scoping memo summarizing the proposed land uses and square footages.

2. **Project Site Plan:** The preliminary project site plan, including the site access, has been reviewed and approved by the County of San Bernardino Fire Department, Public Works Department, and Planning Department. The driveway spacing meets the County's minimum driveway spacing requirements. Furthermore, a detailed site access and queuing analysis will be prepared to access any potential access issues as part of the Transportation Impact Study (TIS). The analysis will be based on the County's Standard Plans/Drawings for access and on-site circulation design requirements.

3. **Project Site Access and On-Site Circulation:** The project frontage improvements will be constructed to meet the ultimate half-width for a Major Highway. Additional detail has been provided in the Proposed Frontage improvements discussion of the Scoping memo. Figure 7, Proposed Lenwood Road Section, is also provided as an attachment.

4. **Trip Generation Rates**

    a. The truck wash and truck maintenance services are ancillary uses and are not anticipated to generate additional traffic. A footnote has been added to the trip generation table noting this assumption.

b. The AM peak hour trips have been updated to represent 6% of the daily traffic as noted in the trip generation table assumptions. The trips were incorrectly calculated based on 7%. This error has been fixed.
c. The AM peak hours trips have been updated, and the remaining trips have been verified. No other changes are required.
d. The AM peak hour PCE trips have been updated based on the revision noted in response 4b.

5. **Trip Distribution**
   a. The PM peak hour entering volumes have been verified and are presented in Figure 6.
   b. The trip volumes have been balanced between the driveways and are presented in Figure 6.

6. **Traffic Study Scenarios**
   a. Comment noted. The Opening Year to be analyzed is anticipated to be 2027 and will be finalized once the traffic study has been initiated.
   b. As indicated in the Scoping memo, the ambient growth rate is based on the County's TIS Guidelines and the Traffic scoping form which states that projects in the Desert Region should use an ambient growth rate per year of 1%.

7. **Traffic Volumes**
   a. The 2023 traffic volumes will be updated to 2025 conditions by applying a 1% growth rate.

Fehr & Peers Comments

1. **Flatten Attachments:** As requested, the attachments have been flattened.
2. **Study Roadway Segments:** Segment 2 has been updated to *"south"* of Cam Del Sol. This was a typo in the memo.
3. **BIG Project**: The BIG project will be included in the Opening Year analysis.
4. **AM peak hour trips.** The AM peak hour trips have been updated to represent 6% of the daily traffic as noted in the trip generation table assumptions. The trips were incorrectly calculated based on 7%. This error has been fixed.
5. **Rounding Errors**. The trip generation table has been manually updated to minimize rounding errors.

City of Barstow Comments (provided via email on March 18, 2025)

1. **Study Intersections:** Please also add the following intersections to list of intersections to be analyzed:

   - Lenwood Road/Sun Valley Drive
   - Lenwood Road/Love's Travel Strop Driveway
   - Lenwood Road/High Desert Road
   - Lenwood Road/Chevron Driveway

   The intersections above will be included in the TIS.

ATTACHMENT H

County Scoping Correspondence and Approval

Lisa Valdez

From: Lisa Valdez
Sent: Friday, April 26, 2024 9:32 AM
To: Valencia, Eric - DPW; Roque, Osvaldo - DPW; David Mlynarski; Phil Angelides (RCI
Cc: Johnson, Shawn - DPW; Christine Kronenberg; Mladen Popovic; Haylie Alcorn
Subject: RE: TRSTY-2023-00007 (PROJ-2023-00018)- Lenwood Scoping Agreement Comments

Eric,

Thank you for confirming the trip generation. We will reach out to Thomas regarding the site access.

Thanks,

Lisa Valdez (She/Her)
Senior Transportation Specialist

O: 805 308 8505 **C:** 805 450 2583
dudek.com

From: Valencia, Eric - DPW <Eric.Valencia@dpw.sbcounty.gov>
Sent: Thursday, April 25, 2024 11:01 AM
To: Lisa Valdez <lvaldez@dudek.com>; Roque, Osvaldo - DPW <Osvaldo.Roque@dpw.sbcounty.gov>; David Mlynarski <david.mlynarski@transtech.org>; Phil Angelides (RCI <phil@riverviewci.com>
Cc: Johnson, Shawn - DPW <Shawn.Johnson@dpw.sbcounty.gov>; Christine Kronenberg <ckronenberg@dudek.com>; Mladen Popovic <mpopovic@dudek.com>; Haylie Alcorn <haylie.alcorn@transtech.org>
Subject: RE: TRSTY-2023-00007 (PROJ-2023-00018)- Lenwood Scoping Agreement Comments

Lisa,

Traffic is approving the trip generation estimates. Land Development would be able to address the site access that is shown on the site plan, please reach out to Thomas with Land Development.

thomas.bustamonte@lus.sbcounty.gov

Eric Valencia
Engineer II
Department of Public Works – Traffic Division
Phone: 909-387-8186
Fax: 909-387-7809
825 E. Third Street
San Bernardino, CA 92415-0835

Our job is to create a county in which those who reside and invest can prosper and achieve well-being.
www.SBCounty.gov

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From: Lisa Valdez <lvaldez@dudek.com>
Sent: Wednesday, April 24, 2024 2:36 PM
To: Roque, Osvaldo - DPW <Osvaldo.Roque@dpw.sbcounty.gov>; Valencia, Eric - DPW

<Eric.Valencia@dpw.sbcounty.gov>; David Mlynarski <david.mlynarski@transtech.org>; Phil Angelides (RCI <phil@riverviewci.com>
Cc: Johnson, Shawn - DPW <Shawn.Johnson@dpw.sbcounty.gov>; Christine Kronenberg <ckronenberg@dudek.com>; Mladen Popovic <mpopovic@dudek.com>; Haylie Alcorn <haylie.alcorn@transtech.org>
Subject: RE: TRSTY-2023-00007 (PROJ-2023-00018)- Lenwood Scoping Agreement Comments

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Osvaldo,

The EV charging station project has been slightly modified since we last spoke and as a result the project trip generation estimates have been revised. Please see the attached spreadsheet and new site plan.

- The project is no longer proposing alternative fueling stations.
- The truck stop rate has been removed since this rate was previously used to account for the alternative fuels.
- To account for the commercial land uses (15,000 SF total), the strip retail rate has been applied to 12,000 SF and the fast-food rate with drive-through has been applied to 3,000 SF.
- Based on the ITE rates, 3,000 SF is the average size of a fast-food restaurant with drive-through.
- No other changes to the trip rates or assumptions were made.

Please let us know if these changes are acceptable. Additionally, we would like to get the County's initial feedback on the access proposed for the parking lot along the east edge of the site. The parking lot is for passenger vehicles only and would be accessed from the four drive aisles located along the truck parking and loading docks. A future road is identified at the northeast corner of the site which would ultimately provide a secondary access to Agate Road to the north. Please let us know if there are any issues with the access as currently proposed.

Thank you,

Lisa Valdez (She/Her)
Senior Transportation Specialist

O: 805 308 8505 **C:** 805 450 2583
dudek.com

From: Roque, Osvaldo - DPW <Osvaldo.Roque@dpw.sbcounty.gov>
Sent: Thursday, November 16, 2023 3:57 PM
To: Lisa Valdez <lvaldez@dudek.com>; Valencia, Eric - DPW <Eric.Valencia@dpw.sbcounty.gov>; David Mlynarski <david.mlynarski@transtech.org>; Phil Angelides (RCI <phil@riverviewci.com>
Cc: Johnson, Shawn - DPW <Shawn.Johnson@dpw.sbcounty.gov>; Christine Kronenberg <ckronenberg@dudek.com>; Mladen Popovic <mpopovic@dudek.com>; Haylie Alcorn <haylie.alcorn@transtech.org>
Subject: RE: TRSTY-2023-00007 (PROJ-2023-00018)- Lenwood Scoping Agreement Comments

Lisa,

Thank you for the updated scoping agreement. As previously noted, the report will need to be circulated and approved by Caltrans and the City of Barstow. It's recommended you also get their approval for this scoping agreement before commencing work and/or ordering traffic counts. Aside from this, Traffic has no further comments.

Respectfully,

Osvaldo Roque, P.E.
Supervising Engineer
Department of Public Works – Traffic Division
Phone: 909-387-8186

Fax: 909-387-7809
825 E. Third Street – Room 115
San Bernardino, CA 92415-0835

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www.SBCounty.gov

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From: Lisa Valdez <lvaldez@dudek.com>
Sent: Thursday, November 16, 2023 12:32 PM
To: Roque, Osvaldo - DPW <Osvaldo.Roque@dpw.sbcounty.gov>; Valencia, Eric - DPW <Eric.Valencia@dpw.sbcounty.gov>; David Mlynarski <david.mlynarski@transtech.org>; Phil Angelides (RCI <phil@riverviewci.com>
Cc: Johnson, Shawn - DPW <Shawn.Johnson@dpw.sbcounty.gov>; Christine Kronenberg <ckronenberg@dudek.com>; Mladen Popovic <mpopovic@dudek.com>; Haylie Alcorn <haylie.alcorn@transtech.org>
Subject: RE: TRSTY-2023-00007 (PROJ-2023-00018)- Lenwood Scoping Agreement Comments

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Osvaldo,

Thank you again for meeting with us this morning to discuss the revised project trip estimates. Per our discussion, we updated the PM peak hour trip percentage to 7% for the alternative fuels and auto and truck chargers, consistent with the Truck Stop rate. We had discussed using 6%, but the calculated rate is 6.9%. The revised table is attached.

Please confirm that with this update, our scoping is approved, and we can start the analysis.

Thanks,

Lisa Valdez
Senior Transportation Planner

O: 805.308.8505 C: 805.450.2583

From: Roque, Osvaldo - DPW <Osvaldo.Roque@dpw.sbcounty.gov>
Sent: Tuesday, October 31, 2023 11:36 AM
To: Lisa Valdez <lvaldez@dudek.com>; Valencia, Eric - DPW <Eric.Valencia@dpw.sbcounty.gov>; David Mlynarski <david.mlynarski@transtech.org>; Phil Angelides (RCI <phil@riverviewci.com>
Cc: Johnson, Shawn - DPW <Shawn.Johnson@dpw.sbcounty.gov>; Christine Kronenberg <ckronenberg@dudek.com>; Mladen Popovic <mpopovic@dudek.com>; Haylie Alcorn <haylie.alcorn@transtech.org>
Subject: RE: TRSTY-2023-00007 (PROJ-2023-00018)- Lenwood Scoping Agreement Comments

Sure thing, please send us a meeting request once you are ready. Feel free to contact me if you have any questions.

Respectfully,

Osvaldo Roque, P.E.
Supervising Engineer
Department of Public Works – Traffic Division
Phone: 909-387-8186
Fax: 909-387-7809
825 E. Third Street – Room 115
San Bernardino, CA 92415-0835

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From: Lisa Valdez <lvaldez@dudek.com>
Sent: Monday, October 30, 2023 11:38 AM
To: Roque, Osvaldo - DPW <Osvaldo.Roque@dpw.sbcounty.gov>; Valencia, Eric - DPW <Eric.Valencia@dpw.sbcounty.gov>; David Mlynarski <david.mlynarski@transtech.org>; Phil Angelides (RCI <phil@riverviewci.com>
Cc: Johnson, Shawn - DPW <Shawn.Johnson@dpw.sbcounty.gov>; Christine Kronenberg <ckronenberg@dudek.com>; Mladen Popovic <mpopovic@dudek.com>; Haylie Alcorn <haylie.alcorn@transtech.org>
Subject: RE: TRSTY-2023-00007 (PROJ-2023-00018)- Lenwood Scoping Agreement Comments

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Good morning,

Thank you for providing further direction on the approach to the trip generation estimates. We will send you the updated table for your review prior to starting our analysis. We'd also like to schedule another call to walk through the revised table once its ready.

Thanks,

Lisa Valdez
Senior Transportation Planner

O: 805.308.8505 C: 805.450.2583

From: Roque, Osvaldo - DPW <Osvaldo.Roque@dpw.sbcounty.gov>
Sent: Friday, October 27, 2023 11:23 AM
To: Lisa Valdez <lvaldez@dudek.com>; Valencia, Eric - DPW <Eric.Valencia@dpw.sbcounty.gov>; David Mlynarski

<david.mlynarski@transtech.org>; Phil Angelides (RCI <phil@riverviewci.com>
Cc: Johnson, Shawn - DPW <Shawn.Johnson@dpw.sbcounty.gov>; Christine Kronenberg <ckronenberg@dudek.com>; Mladen Popovic <mpopovic@dudek.com>; Haylie Alcorn <haylie.alcorn@transtech.org>
Subject: RE: TRSTY-2023-00007 (PROJ-2023-00018)- Lenwood Scoping Agreement Comments

Good morning Lisa,

It was a pleasure speaking yesterday regarding the truck fueling and warehouse project in Lenwood. We have taken a second look into the project scope and trip generation estimates per your request. Our findings are that the overall project consists of definable land uses matching ITE categories and it would be most appropriate to aggregate trips for each category instead of calculating trips for each component. As an example, the development proposes to build a diesel canopy with 12 vehicle fuel positions and several alternative fuel options. While we acknowledge that ITE does not have trip generation data for alternative fueling stations, the proposed diesel pumps combined with the retail/restaurant/bathroom facility would fit land use code 950 for a truck stop. Thus, the scoping should develop the trip generation based on this land use and add the trips for the proposed warehouse and the alternative fueling stations. As discussed, there may be room for trip internalization (pass-by, diverted link, and internal capture) which may be analyzed in the project's traffic study. I hope this information was useful, but please feel free to contact me if you have further questions.

Respectfully,

Osvaldo Roque, P.E.
Supervising Engineer
Department of Public Works – Traffic Division
Phone: 909-387-8186
Fax: 909-387-7809
825 E. Third Street – Room 115
San Bernardino, CA 92415-0835

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From: Lisa Valdez <lvaldez@dudek.com>
Sent: Thursday, October 26, 2023 9:28 AM
To: Valencia, Eric - DPW <Eric.Valencia@dpw.sbcounty.gov>; David Mlynarski <david.mlynarski@transtech.org>; Phil Angelides (RCI <phil@riverviewci.com>
Cc: Roque, Osvaldo - DPW <Osvaldo.Roque@dpw.sbcounty.gov>; Johnson, Shawn - DPW <Shawn.Johnson@dpw.sbcounty.gov>; Christine Kronenberg <ckronenberg@dudek.com>; Mladen Popovic <mpopovic@dudek.com>; Haylie Alcorn <haylie.alcorn@transtech.org>
Subject: RE: TRSTY-2023-00007 (PROJ-2023-00018)- Lenwood Scoping Agreement Comments

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Great! I will send a meeting invite.

Thanks,

Lisa Valdez
Senior Transportation Planner

O: 805.308.8505 C: 805.450.2583

From: Valencia, Eric - DPW <Eric.Valencia@dpw.sbcounty.gov>
Sent: Thursday, October 26, 2023 8:35 AM
To: Lisa Valdez <lvaldez@dudek.com>; David Mlynarski <david.mlynarski@transtech.org>; Phil Angelides (RCI <phil@riverviewci.com>
Cc: Roque, Osvaldo - DPW <Osvaldo.Roque@dpw.sbcounty.gov>; Johnson, Shawn - DPW <Shawn.Johnson@dpw.sbcounty.gov>; Christine Kronenberg <ckronenberg@dudek.com>; Mladen Popovic <mpopovic@dudek.com>; Haylie Alcorn <haylie.alcorn@transtech.org>
Subject: RE: TRSTY-2023-00007 (PROJ-2023-00018)- Lenwood Scoping Agreement Comments

Good Morning Lisa,

We are available at 11 am today.

Eric Valencia
Engineer II
Department of Public Works – Traffic Division
Phone: 909-387-8186
Fax: 909-387-7809
825 E. Third Street
San Bernardino, CA 92415-0835

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From: Lisa Valdez <lvaldez@dudek.com>
Sent: Wednesday, October 25, 2023 1:51 PM
To: Valencia, Eric - DPW <Eric.Valencia@dpw.sbcounty.gov>; David Mlynarski <david.mlynarski@transtech.org>; Phil Angelides (RCI <phil@riverviewci.com>
Cc: Roque, Osvaldo - DPW <Osvaldo.Roque@dpw.sbcounty.gov>; Johnson, Shawn - DPW <Shawn.Johnson@dpw.sbcounty.gov>; Christine Kronenberg <ckronenberg@dudek.com>; Mladen Popovic <mpopovic@dudek.com>; Haylie Alcorn <haylie.alcorn@transtech.org>
Subject: RE: TRSTY-2023-00007 (PROJ-2023-00018)- Lenwood Scoping Agreement Comments

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Hi Eric,

Thank you for providing the comments on the Scoping Agreement. I'd like to set-up a call with the County to walk through the comments, particularly the Trip Generation rates. It should be brief! I can meet during the following times:

- Thursday (10/26)- 10 AM to 1 PM
- Friday (10/27)- 9 AM to 11 AM and 1 PM to 2:30 PM
- Monday (10/30)- 9 AM to 2:30 PM

Please let me know if any of these times work and I will set up a call.

Thanks,

Lisa Valdez
Senior Transportation Planner

O: 805.308.8505 C: 805.450.2583

From: Valencia, Eric - DPW <Eric.Valencia@dpw.sbcounty.gov>
Sent: Thursday, October 19, 2023 4:08 PM
To: David Mlynarski <david.mlynarski@transtech.org>; Phil Angelides (RCI <phil@riverviewci.com>; Lisa Valdez <lvaldez@dudek.com>
Cc: Roque, Osvaldo - DPW <Osvaldo.Roque@dpw.sbcounty.gov>; Johnson, Shawn - DPW <Shawn.Johnson@dpw.sbcounty.gov>; Christine Kronenberg <ckronenberg@dudek.com>; Mladen Popovic <mpopovic@dudek.com>; Haylie Alcorn <haylie.alcorn@transtech.org>
Subject: TRSTY-2023-00007 (PROJ-2023-00018)- Lenwood Scoping Agreement Comments

David,

Please see attached comments regarding Lenwood Scoping Agreement. Please let me know if you have any questions.

Comments are also uploaded to EZOP.

Eric Valencia
Engineer II
Department of Public Works – Traffic Division
Phone: 909-387-8186
Fax: 909-387-7809
825 E. Third Street
San Bernardino, CA 92415-0835

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ATTACHMENT I

Original Approved Scoping Memo to County, November 2023

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

MEMORANDUM

To:	Jeremy Johnson, Engineering Manager, San Bernardino County Public Works Department
From:	Lisa Valdez, Senior Transportation Planner
Subject:	Lenwood EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project
Date:	November 16, 2023
cc:	Phil Angelides, EVC Partners LLC
Attachment(s):	County Transportation Scoping Form
	Table 1: Project Trip Generation table
	Figures 1-4

Dudek has prepared the following transportation scoping memorandum for the proposed Lenwood EV Charging Truck Stop and Distribution Center Project (project) to be located on Lenwood Road between California Highway 58 (CA 58) and Interstate 15 (I-15), in the County of San Bernardino (Figure 1, Project Location). This memo describes the anticipated trip generation and trip distribution of the proposed project and provides the proposed analysis methodology for the Transportation Impact Study (TIS) based on the requirements and policies from the San Bernardino County's (County) Transportation Impact Study Guidelines (July 2019), the San Bernardino County Transportation Authority's (SBCTA) Congestion Management Program (CMP), the City of Barstow Circulation Element (2015), and Caltrans Transportation Impact Study Guide (May 2020). The County's Traffic scoping form is also provided as an attachment to this memo.

Project Description

The approximately 100-acre Project site includes four parcels (049-714-203, 049-714-204, 049-714-214, and 049-714-215) and is located on Lenwood Road between CA 58 and Interstate-15, approximately one mile west of CA 58 and four miles west of downtown Barstow. The Project site is undeveloped and surrounded by undeveloped lands with the exception of a single-family residential neighborhood, High Desert Estates located adjacent to the southern Project boundary. The Project is proposing development on approximately 20-acres in the southern portion of the site with an electric vehicle charging hub for medium and heavy-duty trucks and light duty vehicles, including other clean energy fuels (e.g., R-CNG, renewable diesel, hydrogen [all included in the CA Low Carbon Fuel Standard program/funding, etc.]), battery storage, and a 15,000 square foot (SF) commercial building to provide food and other amenities (e.g., showers and rest areas) as trucks and cars are charging/fueling. Access would be provided from Lenwood Road. The remaining site is proposed to include three warehouse buildings of 447,144 SF each, for a total of 1,341,432 SF of light industrial warehouse, logistic, and distribution facilities.

Trip Generation

The estimated project trip generation is summarized in Table 1 (attached). Trip generation estimates for the proposed commercial and warehouse uses are based on daily and AM and PM peak hour trip generation rates obtained from the Institute of Transportation Engineers (ITE) Trip Generation Handbook, 11th Edition (2021). Since there are no industry standard rates for EV charging stations, trip rates for the charging station (by charging/fuel

type) are based on assumptions regarding the maximum charging capacity, utilization rates, and other anticipated site operations. The assumptions are outlined in detail in the trip generation table notes.

Additionally, Passenger car equivalent (PCE) factors were applied to the trip generation estimates to account for truck traffic. The San Bernardino County Congestion Management Plan (CMP) indicates that projects with high truck percentages should convert project trips to PCE. A 1.5 PCE factor was applied to 2-axle trucks, 2.0 PCE for 3-axle trucks, and a 3.0 PCE factor was applied to 4-axle trucks per the San Bernardino County CMP. As the ITE Trip Generation Handbook does not provide a breakdown of truck traffic by axle classification, vehicle mix data and percentages are also applied to the project trip generation estimates from the 2014 SCAQMD Warehouse Truck Trip Study Data Results and Usage (SCAQMD Study).

As shown in the Table 1, with the internal trip reduction applied, the project would generate 6,573 daily trips, 435 AM peak hour trips, and 480 PM peak hour trips. This is equivalent to 12,418 daily PCEs, 897 AM peak hour PCEs, and 989 PM peak hour PCEs.

Trip Distribution

Project trip distribution percentages are based on logical travel paths to and from the project site to major highway corridors and the City's designated truck routes. The preliminary project trip distribution percentages are shown in Figures 3 and 4, for passenger vehicle and truck trips, respectively. The project trip assignment through the study intersections will be provided once the distribution has been approved.

Level of Service Analysis

Per the County's TIS guidelines, an LOS analysis would be required at intersections (of Collector or higher designated streets) where projects would generate 50 or more peak hour trips. As such, the following intersection and roadway segments were selected for analysis:

Intersections

1. Lenwood Road/ SR-58 WB Ramps
2. Lenwood Road SR-58 EB Ramps
3. Lenwood Road/Community Boulevard
4. Lenwood Road/Agate Road
5. Lenwood Road/Jasper Road
6. Lenwood Road/Main Street
7. Commerce Parkway/Lenwood Road
8. I-15 SB Ramps/Lenwood Road
9. I-15 NB Ramps - High Point Parkway/Lenwood Road
10. SR-58 SB Ramps/Main Street
11. SR-58 NB Ramps/Main Street

Study Roadway Segments

1. Lenwood Road, south of Agate Road
2. Lenwood Road, north of Cam Del Sol

Analysis Scenarios

The intersection LOS analyses will be prepared for the weekday AM and PM peak hours at the study area intersections listed above for the following analysis scenarios:

- Existing conditions
- Background conditions (no Project) –Defined as Opening Year Conditions with ambient growth and traffic from approved projects
- Background conditions plus Project - Defined as background conditions plus traffic from the proposed project
- Cumulative Year (no project) - Defined as ambient growth to the Cumulative Horizon plus traffic approved and pending projects in the area
- Cumulative Year plus project - Defined as Cumulative No Project Conditions plus traffic from the proposed Project.

Project Opening Year baseline conditions will be developed from a "build-up" method based on the application of cumulative project trip generation estimates and an ambient growth rate (1%), added to the existing traffic volumes. Trip generation estimates for cumulative projects in the Opening Year condition will be based on trip rates in ITE's Trip Generation, 11th Edition, or from their respective traffic studies and/or CEQA documents (if available). Dudek will obtain a list of cumulative projects from the City of Barstow Planning Department and the County of San Bernardino Planning Division.

Horizon Year (2040) traffic volumes will be obtained from the SBCTA's San Bernardino Transportation Analysis Model. Baseline and Plus Project traffic volumes from SBTAM will be post-processed to model specifications.

LOS analyses will be prepared consistent with County's requirements which is based on the Highway Capacity Manual (HCM) methodology. The operational analysis will be conducted using Synchro/SimTraffic analysis software to reflect the effect of downstream congestion more accurately on intersection operations. In addition, queues will be determined at key storage (turn) lanes, including at the I-15 and SR-58 off-ramps.

Traffic Counts

New AM and PM peak hour and daily roadways traffic counts were collected at the study area intersections and roadways on May 11, 2023 during a non-holiday week while adjacent schools were in session. Additional counts were collected at the intersection of Lenwood Road and Jasper Road on November 16, 2023.

Vehicle Miles Traveled

Dudek will prepare a project-level VMT consistent with the County's requirements and the Governor's Office of Planning and Research's (OPR) Technical Advisory on Evaluating Transportation Impacts in CEQA (December 2018).

The Project's VMT and the forecast regional VMT will be calculated using the San Bernardino Transportation Analysis Model (SBTAM). Dudek will contract with the transportation firm authorized to run the model. The traffic analysis zone or TAZ of the Project site will be modified with the Project's proposed land uses, and a Select Zone model run will be performed to determine the Project's trip assignment. As part of the Select Zone run, the VMT estimate of the Project's TAZ will be determined. Then, the regional VMT estimate for the study area region (extent to be determined by the County) will also be provided from SBTAM. VMT estimates will be analyzed for the Baseline plus Project and Cumulative plus Project conditions.

If VMT impacts are identified, Dudek will coordinate with the County to determine the appropriate VMT reduction strategies provided in their VMT guidelines, and other resources noted in the OPR and Caltrans Technical Advisories (or other approved sources) to mitigate Project impacts.

Access, Circulation, and Safety

Dudek will qualitatively analyze the transit, pedestrian, and bicycle facilities that serve the project site. Project access and on-site circulation will be based on the County's Standard Plans/Drawings for access and on-site circulation design requirements. Vehicular queuing at the project's driveways will be analyzed for adequacy based on the 95th percentile (design) queues. For any significant project traffic impacts found, Dudek will determine appropriate and feasible mitigation measures to offset significant project impacts.

Attachments

SCOPE FOR TRAFFIC STUDY

Project Name:	Lenwood EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project

This Scope for Traffic Study acknowledges San Bernardino County Department of Public Works, Traffic Division requirements of traffic impact analysis for the project and is subject to change:
Available on the Department of Public Works Website:
http://cms.sbcounty.gov/dpw/Transportation/Traffic.aspx

Project Address/APN	Southeast of Lenwood Rd and Agate Rd..; 049-714-203, 049-714-204, 049-714-214, and 049-714-215		
Project Description	EV Truck Charging/Low Carbon Fuels Auto/Truck Stop, 15,000 SF commercial, 1.3M SF warehouse; See attached memo		
City	Near Barstow		
Project Horizon Year	2040	**Project Opening Year**	2026 to 2028 (A phasing analysis may be proposed)
Closest Intersection (Xtn) to the Project: Lenwood Road and Agate Road			
Xtn N/S Street Name	Lenwood Road		
Xtn E/W Street Name	Agate Road		
County Supervisorial District	3	**Ambient Growth Rate per Year Valley 2%, Desert 1%**	1%

	Traffic Engineer	**Owner/Developer**
Company	Dudek	EVC Partners LLC
Name	Lisa Valdez; Charles Greeley	Phil Angelides
Address	605 Third Street	725 30th Street, Suite 205
City, State, Zip Code	Encinitas, CA 92024	Sacramento, CA 95816
Phone #	805-308-8505	916-448-1998
Email address	lvaldez@dudek.com	Phil@riverviewci.com

Lisa Valdez
Dudek

Firm Preparing Study

11/16/2023

DATE

SCOPE FOR TRAFFIC STUDY

Project Name:	Lenwood EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project

Engineer of Record _____ **License Number** _____

1. Traffic Distribution: Please insert or attach Figure(s) illustrating project trip distribution in percentages and volumes at the study intersections analyzed. See attached.

2. Trip Credit: Exact amount of credit subject to approval by Traffic Division.

Transportation Demand Management (TDM)	Yes/no	No
Existing Active Land Use	Yes/no	No
Previous Land Use	Yes/no	No; vacant land
Internal Trip Reduction	Yes/no	Yes
Pass-by Trip Reduction	Yes/no	No

3. Related Projects: Consultant should check with Planning in the San Bernardino County Department of Land Use Services and planning departments of adjoining Cities. Documentation of the consultation from these agencies shall be included in the traffic study. Related projects list shall be submitted to Traffic Division for our review and approval before being incorporated in the study.

4. Freeway Analysis: The potential traffic impact on the following Freeway(s) must be considered.

Highway 58 and Interstate-15

The applicant shall consult with the State of California Department of Transportation (Caltrans) to determine the California Environmental Quality Act levels of significance with regard to traffic impacts on Caltrans' freeway facilities. This consultation shall also include a determination of Caltrans requirements for the study of traffic impacts to its facilities and the mitigation of any such impacts. This analysis must follow the most current Caltrans' Vehicle Miles Traveled-Focused Transportation Impact Study Guide (May 2020) and can be obtained from https://dot.ca.gov/-/media/dot-media/programs/transportation-planning/documents/sb-743/2020-05-20-approved-vmt-focused-tisg-a11y.pdf. If Caltrans finds that the project has a significant impact on the freeway, Caltrans shall be requested to include the basis for this finding in their response. If fees are proposed to mitigate the freeway impact, Caltrans shall be requested to identify the specific project to which the fees will apply. These written comments from Caltrans shall be included with the traffic study and submitted to Public Works for review and approval. If a documented good faith effort is made to consult with Caltrans and written comments cannot be obtained from within a reasonable amount of time, an analysis of the freeway impact shall be made using HCM procedures. Appendix A of the San Bernardino County Transportation Authority CMP outlines allowable modifications to these procedures. The San Bernardino County Transportation Authority CMP can be viewed online at: https://www.gosbcta.com/planning-sustainability/?term=249

SCOPE FOR TRAFFIC STUDY

Project Name:	Lenwood EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project

5. Trip Generation-

See Table 1 (attached)

Trip Generation Rate(s) Source: ITE Trip Generation		**I – Institute of Transportation Engineers; S – San Diego Traffic Generators; C – County; O – Other:**													
Land Use Code	**Land Use**	**Rate Based on**	**QTY**	**AVTE Units***	**Daily Trips**	Weekday A.M. Peak			Weekday P.M. Peak			Weekend peak hour			**Edition:** 11th
						In	Out	Total	In	Out	Total	In	Out	Total	

* - Average Vehicle Trip Ends.
For ITE Land Uses provide number and name of Land Use. e.g. LU 814 - Variety Store. Units include ksf, employee, GLA, etc.

SCOPE FOR TRAFFIC STUDY

Project Name:	Lenwood EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project

6. Study Intersections: At minimum, the study shall include the following intersections. The list is subject to change after related projects, trip generation and distribution are determined. Consultant should check with adjoining Cities regarding their requirements in addition to the following County/City intersections. Documentation of the consultation from these agencies shall be included in the traffic study.

Xtn #	% County	% City	N-S/E-W Street Name	City Name/Caltrans	Signalized	CMP
1	100%		Lenwood Road/ SR-58 WB Ramps	County/Caltrans	No	Yes
2	100%		Lenwood Road SR-58 EB Ramps	County/Caltrans	No	Yes
3	100%		Lenwood Road/Community Boulevard	County	No	No
4	50%	50%	Lenwood Road/Agate Road	Barstow/County	No	No
5		100%	Lenwood Road/Jasper Road	Barstow	No	No
6		100%	Lenwood Road/Main Street	Barstow	Yes	No
7		100%	Commerce Parkway/Lenwood Road	Barstow	Yes	No
8		100%	I-15 SB Ramps/Lenwood Road	Barstow/Caltrans	Yes	Yes
9		100%	I-15 NB Ramps - High Point Parkway/Lenwood Road	Barstow/Caltrans	Yes	Yes
10		100%	SR-58 SB Ramps/Main Street	Barstow/Caltrans	Yes	Yes
11		100%	SR-58 NB Ramps/Main Street	Barstow/Caltrans	Yes	Yes

Cities/agencies to be consulted: City of Barstow; Caltrans

SCOPE FOR TRAFFIC STUDY

Project Name:	

7. Other:

Traffic counts may be conducted immediately per the following:
• Must be taken on Tuesdays, Wednesdays or Thursdays. • Certain projects may need to collect traffic counts on Friday or Sunday
• Must exclude holidays, and the first weekdays before and after the holiday.
• Must be taken on days when local schools or colleges are in session.
• Must be taken on days of good weather, and avoid atypical conditions (e.g., road construction, detours, or major traffic incidents).
• Traffic counts used for other traffic studies in the area shall **NOT** be reused again, unless 25% of the counts conducted for that particular traffic study are validated with new counts. The difference in volumes between the old and new counts at each corresponding movement should not be more than 10%.
• New traffic counts shall be checked to ensure the difference in volumes at corresponding approaches, if applicable, between two adjacent intersections is no more than 10% unless the difference can be justified.
• For all proposed mitigation measures, a conceptual plan for the improvements shall be submitted to our Traffic Studies section for review and approval prior to the approval of the Traffic Impact Analysis. All proposed improvements shall be within the right-of-way.
• For all cumulative mitigation measures, a cost estimate for the improvement shall be submitted.
• Raw traffic counts data must be included with traffic analysis study
• Traffic Counts must not be older than 1 year prior to submittal unless approved by County Traffic.

This analysis must follow the most current Traffic Impact Study Guidelines for the County as stated in the County's Road Planning and Design Standards.

8. Fees

The County charges on an actual cost basis for review of traffic studies. An initial deposit of $1,802 is required at the time that a land use application is filed with the Department of Land Use Services If the review costs exceed the initial deposit, the applicant will be expected to provide additional funds and the review will be suspended until the additional funds are deposited.

Project Name:	

9. Contact Information:

Please submit a signed copy of this scope for approval by the Traffic Division. Draft scopes may be sent electronically. Final scope with signature should be submitted in person or by US Mail to:

San Bernardino County
Dept. of Public Works, Traffic Division
825 E. 3rd Street, Rm 115
San Bernardino, CA 92415-0835

Phone: 909-387-8186
Fax: 909-387-7809
Email: Eric.Valencia@dpw.sbcounty.gov or Osvaldo.Roque@dpw.sbcounty.gov

Table 1 - EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project Trip Generation Summary

Land Use	ITE Code	Size/Units	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
TRIP RATES [1]									
Truck Stop	950	pumps	224.00	6.85	7.12	13.97	8.17	7.25	15.42
EV Charging Station	N/A	see assumptions below[7]							
High-Cube Fulfillment Center Warehouse (non-sort)	155	TSF	1.81	0.12	0.03	0.15	0.06	0.10	0.16
TRIP GENERATION									
Commercial[2]	950	15 TSF	N/A						
Renewable Diesel (RD)[3]	950	12 lanes	2,688	82	85	167	98	87	185
R-CNG	N/A	4 lanes	161	5	5	10	6	6	12
Hydrogen	N/A	4 pumps	198	6	6	12	7	7	14
EV Charging- Autos	N/A	8 fast chargers	439	13	13	26	15	15	30
EV Charging- Trucks[7]	N/A	30+15 fast chargers	658	10	10	20	12	12	24
Warehouse	155	1341.432 TSF	2,428	163	38	201	84	131	215
Subtotal RD, R-CNG, Hydrogen Truck Trips			3,047	93	96	189	111	100	211
Subtotal EV Charger Auto Trips			439	13	13	26	15	15	30
Subtotal EV Charger Truck Trips			658	10	10	20	12	12	24
Subtotal Warehouse Trips			2,428	163	38	201	84	131	215
		Subtotal (Non-PCE)	**6,572**	**279**	**157**	**436**	**222**	**258**	**480**
TRIP GENERATION SUMMARY (Non-PCE)									
Vehicle Mix- RD, R-CNG, Hydrogen, Auto Chargers [4]									
Passenger Vehicles	100% per auto charger		439	13	13	26	15	15	30
2-Axle Trucks	40.0%		1,219	37	38	75	44	40	84
3-Axle Trucks	10.0%		305	9	10	19	11	10	21
4+-Axle Trucks	50.0%		1,524	46	48	94	56	50	106
RD, R-CNG, Hydrogen, Auto Chargers Total (Non-PCE)			**3,487**	**105**	**109**	**214**	**126**	**115**	**241**
Vehicle Mix- EV Truck Chargers [4]									
2-Axle Trucks	40.0%		263	4	4	8	5	5	10
3-Axle Trucks	10.0%		66	1	1	2	1	1	2
4+-Axle Trucks	50.0%		329	5	5	10	6	6	12
EV Truck Chargers Total (Non-PCE)			**658**	**10**	**10**	**20**	**12**	**12**	**24**
Vehicle Mix- Warehouse [5]									
Passenger Vehicles	72.5%		1,760	118	28	146	61	95	156
2-Axle Trucks	4.6%		112	7	2	9	4	6	10
3-Axle Trucks	5.7%		138	9	2	11	5	7	12
4+-Axle Trucks	17.2%		418	28	7	35	14	23	37
Warehouse Total (Non-PCE)			***2,428***	***162***	***39***	***201***	***84***	***131***	***215***

EV Charging Truck Stop and Distribution Center Project Trip Generation Summary

Total Site								
	Total Passenger Vehicles	2,199	131	41	172	76	110	186
	Total Trucks	4,374	147	116	263	146	148	294
Total Trip Generation (Non-PCE)		**6,573**	**278**	**157**	**435**	**222**	**258**	**480**
TRIP GENERATION SUMMARY (PCE)								
RD, R-CNG, Hydrogen, Auto Chargers Total (PCE)								
Vehicle Mix	**PCE[6]**							
Passenger Vehicles	1.0	439	13	13	26	15	15	30
2-Axle Trucks	1.5	1,828	56	57	113	67	60	127
3-Axle Trucks	2.0	609	19	19	38	22	20	42
4+-Axle Trucks	3.0	4,571	223	164	387	210	219	429
	Total Passenger Vehicles	439	13	13	26	15	15	30
	Total Trucks	7,008	298	240	538	299	299	598
	RD, R-CNG, Hydrogen, Auto Chargers Total (PCE)	**7,447**	**311**	**253**	**564**	**314**	**314**	**628**
EV Truck Chargers Total (PCE)								
Vehicle Mix	**PCE[6]**							
Passenger Vehicles	n/a							
2-Axle Trucks	1.5	395	6	6	12	7	7	14
3-Axle Trucks	2.0	132	2	2	4	2	2	4
4+-Axle Trucks	3.0	986	15	15	30	18	18	36
	Total Passenger Vehicles	0	0	0	0	0	0	0
	Total Trucks	1,513	23	23	46	27	27	54
	EV Charging Total (PCE)	**1,513**	**23**	**23**	**46**	**27**	**27**	**54**
Warehouse (PCE, by Vehicle Classification)								
Vehicle Mix	**PCE[6]**							
Passenger Vehicles	1.0	1,760	118	28	146	61	95	156
2-Axle Trucks	1.5	168	11	3	14	6	9	15
3-Axle Trucks	2.0	277	19	4	23	10	15	25
4+-Axle Trucks	3.0	1,253	84	20	104	43	68	111
	Total Passenger Vehicles	1,760	118	28	146	61	95	156
	Total Trucks	1,698	114	27	141	59	92	151
	Warehouse Total (PCE)	**3,458**	**232**	**55**	**287**	**120**	**187**	**307**
Total Site Trip Generation (PCE)		**12,418**	**566**	**331**	**897**	**461**	**528**	**989**

NOTES: Rounding discrepancies may occur. TSF = Thousand Square Feet; PCE = Passenger Car Equivalent

[1]Trip rates from the Institute of Transportation Engineers (ITE), *Trip Generation, 11th Edition, 2021.*

[2]Trips captured in Truck Stop rate

[3]Assumes diesel pumps function similar to gas station/truck stop

[4]Vehicle mix and percent assumed to be the same as warehouse and based on the SCAQMD Warehouse Truck Trip Study.

[5]Vehicle mix and percent from SCAQMD Warehouse Truck Trip Study Data Results and Usage, July 17, 2014.

[6]Passenger Car Equivalent (PCE) factors from the San Bernardino County CMP, Appendix B - Guidelines for CMP Traffic Impact Analysis Reports in San Bernardino County, 2016.

[7]Charging Station Assumptions:

EV Charging Truck Stop and Distribution Center Project Trip Generation Summary

Assumptions for the EV Charging/Low Carbon Fuels Auto/Truck Stop

R-CNG- 4 lanes (8 pumps)					
Trucks per hour per pump	3.5				
Pumps used at one time	4				
Total Trucks per hour	14				
Max trucks per day	336				
Average Utilization	24%	https://www.upside.com/blog/why-measuring-capacity-utilization-is-essential-for-fuel-retailers			
Average Daily Trucks	80.64	161.28	daily trips	16.128	daily rate per pump
AM Peak, equal split, 6% of daily total occurs during AM peak	6%				
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	7%				

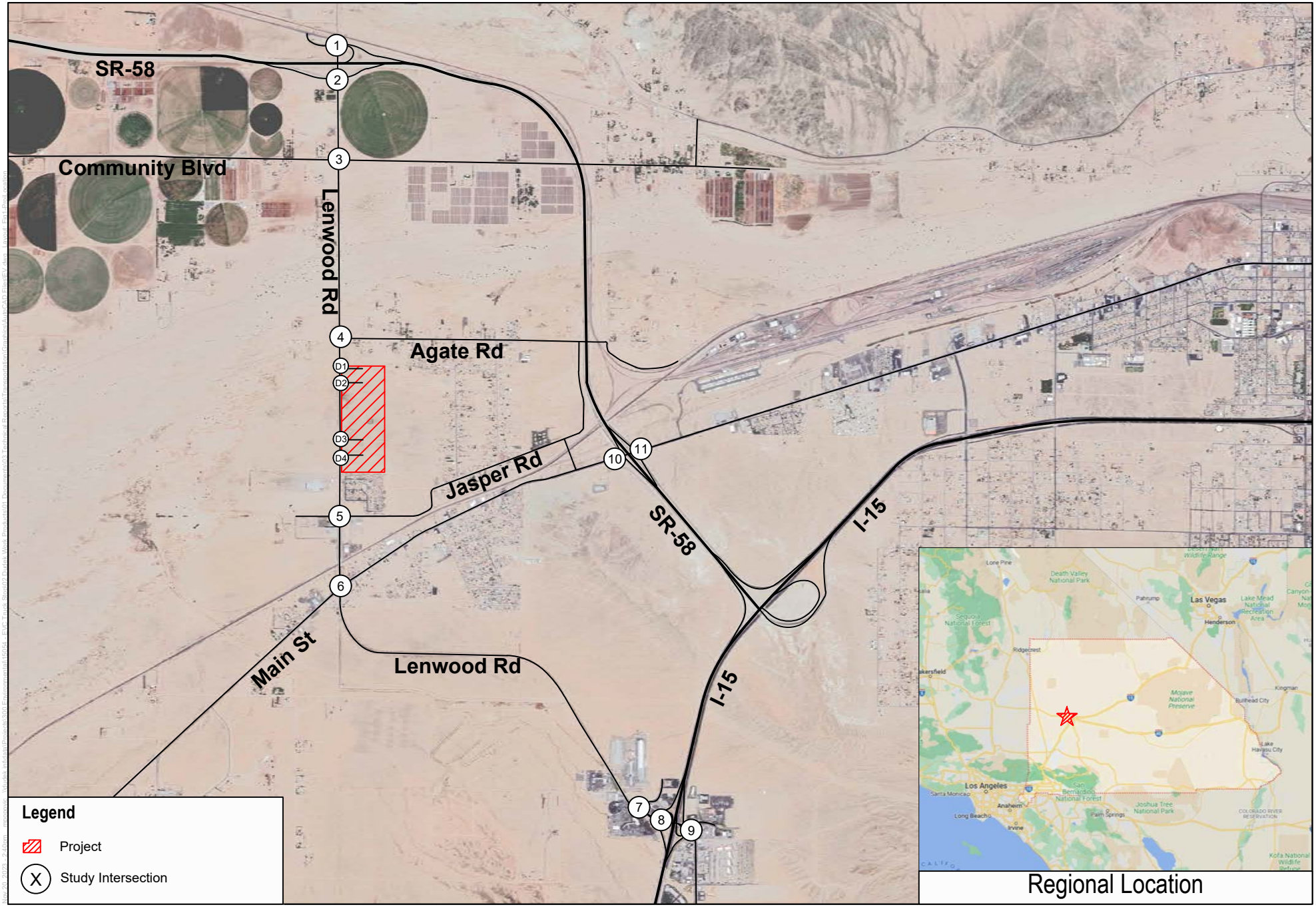
Hydrogen- 4 pumps					
Trucks per hour per pump	4.3				
Pumps used at one time	4				
Total Trucks per hour	17.2				
Max trucks per day	412.8				
Average Utilization	24%	https://www.upside.com/blog/why-measuring-capacity-utilization-is-essential-for-fuel-retailers			
Average Daily Trucks	99.07	198.14	daily trips	99.07	daily rate per pump
AM Peak, equal split, 6% of daily total occurs during AM peak	6%				
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	7%				
Conservative estimate, trips could be as few as 2-3 per week					

EV Autos- 8 DC Fast chargers			
Count	8		
Max rate (kw)	250		
Avg Battery Capacity (kWh)	75		
Avg Amount Charged	70%		
kWh Charged / Visit	52.5		
Fast Charger Dwell Time (hrs)	0.21		
Theoretical Max (auto/hr)	38.10		
Theoretical Maximum (vehicle/day)	914.29		
Average Utilization	24%	https://www.upside.com/blog/why-measuring-capacity-utilization-is-essential-for-fuel-retailers	
Average vehicles per day	219.43	438.86	daily trips
AM Peak, equal split, 6% of daily total occurs during AM peak	6%		
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	7%		

EV Trucks- 30 DC Fast chargers (slower) + 15 DC Fast chargers			
See EV Charging Calculator tab for details	LD Trucks	MD Trucks	HD Trucks
Total Theoretical Max / Hour	102.9	51.4	21.4
Theoretical Maximum (vehicle/day)	2469.6	1233.6	513.6
Average Utilization	40%	40%	40%

EV Charging Truck Stop and Distribution Center Project Trip Generation Summary

Utilization Rate Avg Vehicle/Day	987.8	493.4	205.4	1686.7	
Percent of Truck Traffic (same as warehouse vehicle mix)	40.0%	10.0%	50.0%		
Vehicles/Day Based on % of Traffic	132	33	164	329	daily trips
Average Daily Trucks	263	66	329	658	daily trips
AM Peak, equal split, 6% of daily total occurs during AM peak	6%				
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	7%				



SOURCE: Google Earth 2023

DUDEK

Not to Scale

FIGURE 1

Project Location and Study Area

EV Charging Truck Stop & Distribution Center

SITE INFORMATION

APN : 049-714-203, 049-714-204, 049-716-214, 049-714-219
ZONING: CURRENT : RL - RURAL LIVING
PROPOSED : IC - COMMUNITY INDUSTRIAL
TOTAL GROSS SITE AREA: 4,347,927 G.S.F. = 99.81 ACRES
NET SITE AREA: 4,216,977 N.S.F. = 96.79 ACRES
BUILDING AREA: 1,341,432 S.F. OF INDUSTRIAL, AND UP TO 15,000 S.F COMMERCIAL USES
SITE COVERAGE: 30.17%
CONSTRUCTION TYPE: II-B, II-B OR V-B
BUILDING HEIGHT: 60'-0" TO UNDER SIDE OF ROOF DECK, MAXIMUM OVERALL ALLOWABLE 70'-0"
NUMBER OF STORIES: 1
PARKING: 1259 STALLS TOTAL

LOT COVERAGE / FLOOR AREA RATIO ANALYSIS:

LAND USE ZONING	PROPOSED LOT COVERAGE	LOT SIZE	MAXIMUM LOT COVERAGE ALLOWED	TOTAL LOT COVERAGE
PROPOSED IC - COMMUNITY INDUSTRIAL	3,970,486 SQ. FT.	4,216,977 N.S.F.	85%	3,970,486 / 4,216,977 = 0.9419

LAND USE ZONING	FLOOR AREA RATIO MAXIMUM COVERAGE	TOTAL BUILDING AREA	TOTAL LOT AREA	TOTAL FAR
PROPOSED IC - COMMUNITY INDUSTRIAL	.45 / 1	1,356,432 SQ. FT.	4,216,977 N.S.F.	1,356,432 / 4,216,977 = .32

LANDSCAPING STANDARDS ANALYSIS:

LAND USE ZONING	MINIMUM LANDSCAPE AREA	
	AS A % OF LOT AREA	AREA IN SQ. FT.
PREDOMINANTLY INDUSTRIAL / WAREHOUSE	10 %	1,059 SQ. FT.

TOTAL LANDSCAPED AREA = ± 827,041 SQ. FT. = 19%

TOTAL BIO-RETENTION AREA = ± 163,237 SQ. FT.

EV CHARGING / LOW CARBON FUELS HUB

TOTAL GROSS SITE AREA: 933,604 G.S.F. = 20.72 ACRES
NET SITE AREA: 876,170 N.S.F. = 20.11 ACRES
HD / MD EV CHARGING AREA: 411,499 N.S.F. = 9.45 ACRES
LOW CARBON FUELS AREA: 464,191 N.S.F. = 10.67 ACRES
BUILDING AREA: UP TO 15,000 SQ.FT. COMMERCIAL USES
SITE COVERAGE: 3.35%
CONSTRUCTION TYPE: II-B OR V-B
BUILDING HEIGHT: ±45'-0"
NUMBER OF STORES: 1
PARKING: 69 STALLS TOTAL
TRUCK PARKING: 64 STALLS TOTAL

PARKING STANDARDS: RIVPA COUNTY ZONING CODE TABLE 18.110.030)
- GENERAL RETAIL 1059 S.F.
  (15,000 S.F. @ 1/250 S.F.) = 60 TOTAL STALLS
- ** REQUIRED: 63 STALLS
- ** PROVIDED: 69 STALLS
- STANDARD STALLS: 90 9' X 18' (17' WITH A 2'-0" OVERHANG)
- COMPACT STALLS: 0 8' X 16' (14' WITH A 2'-0" OVERHANG) 6% OF TOTAL STALLS

ACCESSIBLE & DESIGNATED PARKING STALLS (REQUIRED AND PROVIDED) :

PER 2022 CBC TABLE 11B-208.2: 70 TO 100 STALLS, 4 STALLS REQUIRED TO BE ACCESSIBLE STALLS. EVERY 6 OR FRACTION OF SIX, AT LEAST ONE SHALL BE VAN PARKING.
6 ADA STALLS (INCLUDING 1 VAN ACCESSIBLE STALLS) PROVIDED.

PER 2019 CALIFORNIA GREEN BUILDING CODE TABLE 6.106.5.3: 70 TO 100 STALLS, 17 REQUIRED EV CAPABLE SPACES. OF THESE 4 ARE REQUIRED TO BE PROVIDED WITH EVSE.
22 EVSTALLS PROVIDED ALL TO HAVE EVSE

PER CBC TABLE 11B-228.3.2.1, 4 TO 25 EVCS STALLS: 1 VAN ACCESSIBLE EVCS, 1 STANDARD ACCESSIBLE EVCS AND 2 AMBULATORY EVCS ARE REQUIRED.
OF THE 22 EVCS REQUIRED, 1 VAN EVCS, 1 STANDARD ADA EVCS, AND 4 AMBULATORY EVCS ARE PROVIDED AS SHOWN.

TYPICAL WAREHOUSE BUILDING (BUILDING A)

TOTAL GROSS SITE AREA: 1,137,962 G.S.F. = 26.12 ACRES
NET SITE AREA: 1,103,259 N.S.F. = 25.33 ACRES
BUILDING AREA: 447,144 S.F.
SITE COVERAGE: 43.03%
CONSTRUCTION TYPE: II-B OR V-B
BUILDING HEIGHT: 59'-0" TO UNDER SIDE OF ROOF DECK, MAXIMUM OVERALL ALLOWABLE 70'-0"
CLEAR HEIGHT: 36'-0"
NUMBER OF STORES: 1
PARKING: 430 STALLS TOTAL
TRAILER PARKING: 110 STALLS TOTAL

PARKING STANDARDS: (SAN BERNARDINO COUNTY ZONING CODE TABLE 83-13)
- WAREHOUSING 171,000 S.F. FOR THE FIRST 40,000 S.F. 1/4,000 S.F. FOR ALL WAREHOUSE EXCEEDING 40,000 S.F.
  (40,000 S.F. @ 1/1,000 S.F. = 40 STALLS + (373,305 S.F @ 1/4,000 S.F. = 94 STALLS) = 134 TOTAL STALLS
- POTENTIAL OFFICE SPACE @ 19.5% OF BUILDING AREA = 1059 S.F.
  (73,779 S.F. @ 1/250) = 296 TOTAL STALLS
- ** REQUIRED: 430 STALLS
- ** PROVIDED: 430 STALLS
- STANDARD STALLS: 430 9' X 19' (17' WITH A 2'-0" OVERHANG)
- COMPACT STALLS: 0 8' X 19' (14' WITH A 2'-0" OVERHANG) 0% OF TOTAL STALLS

ACCESSIBLE & DESIGNATED PARKING STALLS (REQUIRED AND PROVIDED) :

PER 2022 CBC TABLE 11B-208.2: 401 TO 500 STALLS, 9 STALLS REQUIRED TO BE ACCESSIBLE STALLS. EVERY 6 OR FRACTION OF SIX, AT LEAST ONE SHALL BE VAN PARKING.
9 ADA STALLS (INCLUDING 2 VAN ACCESSIBLE STALLS) PROVIDED.

PER 2019 CALIFORNIA GREEN BUILDING CODE TABLE 6.106.5.3.1: OVER 201 STALLS, 20% OF TOTAL REQUIRED TO BE EV CAPABLE SPACES. 430 X 0.2 = 84. OF THESE, 20% ARE TO BE PROVIDED WITH EVSE. 84 X 0.20 = 21. 84 EV STALLS PROVIDED AND 22 TO HAVE EVSE INSTALLED

PER CBC TABLE 11B-228.3.2.1, 76 TO 100 EVCS STALLS: 1 VAN ACCESSIBLE EVCS, 1 STANDARD ACCESSIBLE EVCS AND 3 AMBULATORY EVCS ARE REQUIRED.
OF THE 22 EVCS REQUIRED, 1 VAN EVCS, 1 STANDARD ADA EVCS, AND 3 AMBULATORY EVCS ARE PROVIDED AS SHOWN.

KEYNOTES:

1. EXISTING PROPERTY LINES
2. PROPOSED NEW PARCEL LINES
3. TYPICAL LANDSCAPE AREAS
4. TYPICAL BIO--RETENTION AREA
5. PROPOSED LOCATION OF NEW SITE ACCESS DRIVE CURB CUT
6. TYPICAL DRIVE ISLE
7. TYPICAL PARKING:
   A. STANDARD STALLS: 9' X 19' OR 9' X 17' WITH 2' PARKING OVERHANG.
   B. COMPACT STALLS: 8' X 18' OR 8' X 14' WITH 2' PARKING OVERHANG (33% MAX).
   C. ACCESSIBLE PARKING STALLS: 9' X 18' MIN. WITH 2' PARKING OVERHANG WITH 5' OR 8' WIDE LOADING ZONE
   D. ELECTRIC VEHICLE CHARGING SPACES (STALLS LABELED "ELECTRIC VEHICLE CHARGING"). TO FOLLOW REQUIREMENTS PER CBSC 5.106.5.3.1.
   E. ACCESSIBLE ELECTRIC VEHICLE CHARGING STALLS, VAN, STANDARD, AND AMBULATORY.
8. NEW CONCRETE PEDESTRIAN WALKS. ASSUME ALL SIDEWALKS TO BE ACCESSIBLE PATH OF TRAVEL. SLOPE NOT TO EXCEED 1:20 (5%) IN DIRECTION OF TRAVEL. CROSS SLOPE NOT TO EXCEED 1:50 (2%) WHERE PARKING OVERHANG OCCURS, INCREASE WIDTH OF SIDEWALK TO 6'--0" MIN.
9. SEMI TRACTOR TRAILER TEMPLATE SHOWN FOR REFERENCE ONLY
10. 60' DEPRESSED CONCRETE TRUCK DOCK WITH CURB AND GUARDRAIL AT EACH SIDE
11. LOADING DOCK ROLL UP DOOR, TYPICAL
12. GRADE LEVEL ROLL UP DOOR, TYPICAL
13. PREFABRICATED PAINTED STEEL DOCK STAIR AND BOLLARDS
14. TRAILER PARKING STALLS WITH CONCRETE DOLLY PADS
15. DASHED LINE INDICATES 2'--0" PARKING OVERHANG
16. SEMI TRUCK AND TRAILER PARKING STALLS
17. POTENTIAL ELECTRICAL VEHICLE SERVICE EQUIPMENT (EVSE)
18. POTENTIAL SOLAR CANOPY -- MAY BE PLACED ABOVE ANY PARKING SPACE ON SITE
19. POTENTIAL SOLAR STORAGE BATTERIES
20. OMITTED
21. LIGHT DUTY PULL THROUGH CHARGING
22. MEDIUM DUTY / HEAVY DUTY TRUCK CHARGING
23. RENEWABLE DIESEL FUELING
24. RENEWABLE COMPRESSED NATURAL GAS FUELING
25. HYDROGEN FUELING
26. UP TO 15,000 SQ. FT. COMMERCIAL BUILDING WITH DRIVE THRU WINDOW

SITE LEGEND:

- BUILDING AREA
- SITE CONCRETE
- COMMERCIAL AREA
- STORM WATER RETENTION AREA
- ASPHALT AREA
- LANDSCAPE AREA
- EXISTING PROPERTY LINE
- NEW PARCEL LINE
- 9' X 10' OVERHEAD DOCK LEVEL DOOR
- 12' X 14' OVERHEAD GRADE LEVEL DOOR

0 50' 100' 200' TRUE NORTH

PRELIMINARY SITE MASTER PLAN
SCALE: 1" = 100'-0"
1

RMW
RMW Architecture Interiors
1718 Third Street Suite 101 Sacramento California 95811
Office 916 449--1400
rmw.com

OWNER / DEVELOPER:

PRELIMINARY DESIGN DRAWINGS FOR:

EV CHARGING / LOW CARBON FUELS HUB AND INDUSTRIAL BUILDINGS
SAN BERNARDINO, CALIFORNIA

approved for the owner by :
approved for the architect by :

issue :	description :	date :
A	ISSUED FOR DESIGN REVIEW	08-09-2023

GENERAL CONTRACTOR:

drawn by : TLG plot date : 08-09-2023
checked by : JDL
stamp

scale : AS NOTED
project number : 2230406.00

PRELIMINARY MASTER SITE PLAN

sheet no. :
A01.0

SOURCE: RMW Architecture Interiors, 2023

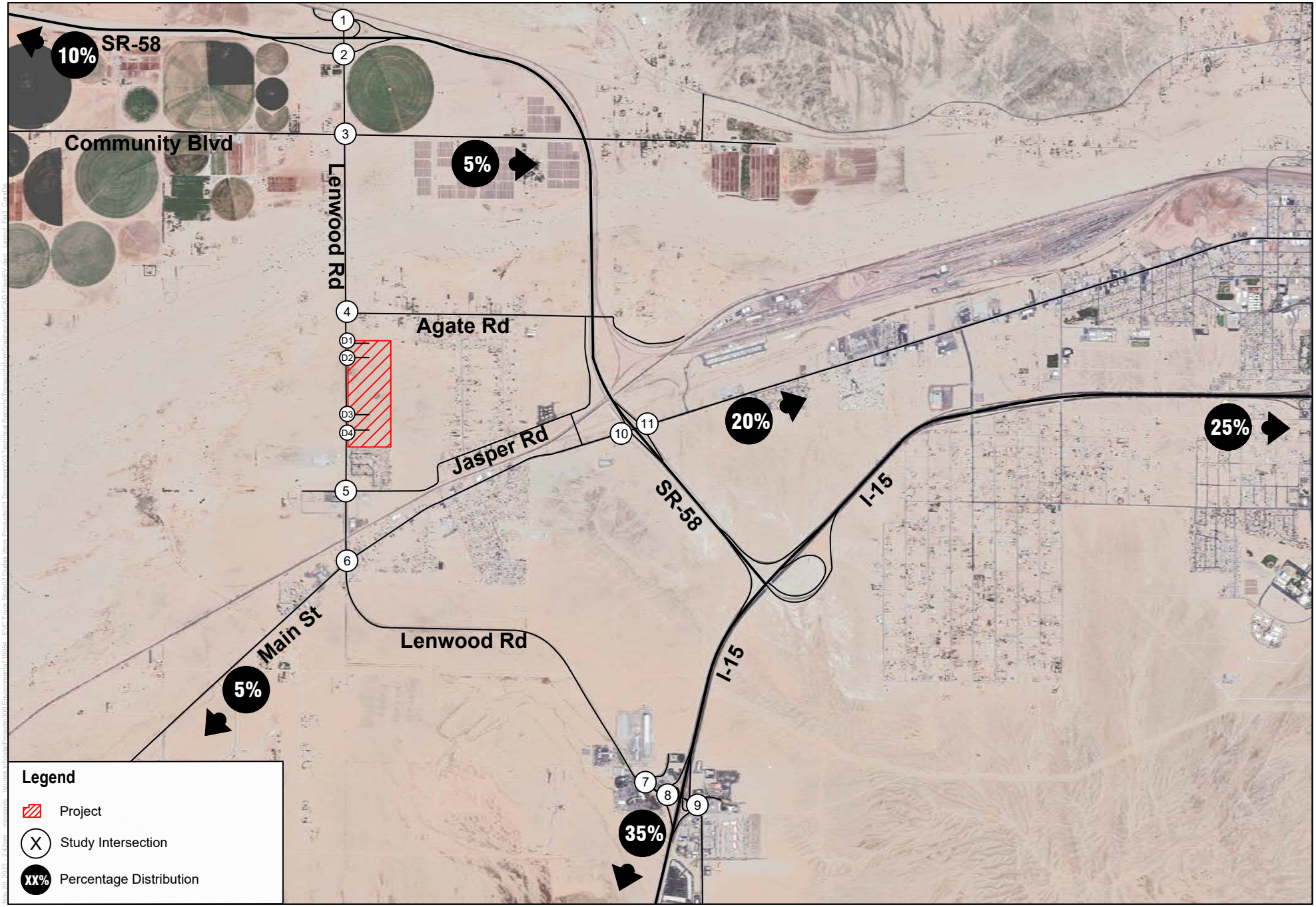
FIGURE 2

Project Site Plan

EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project

DUDEK

Not to Scale



SOURCE: Google Earth 2023

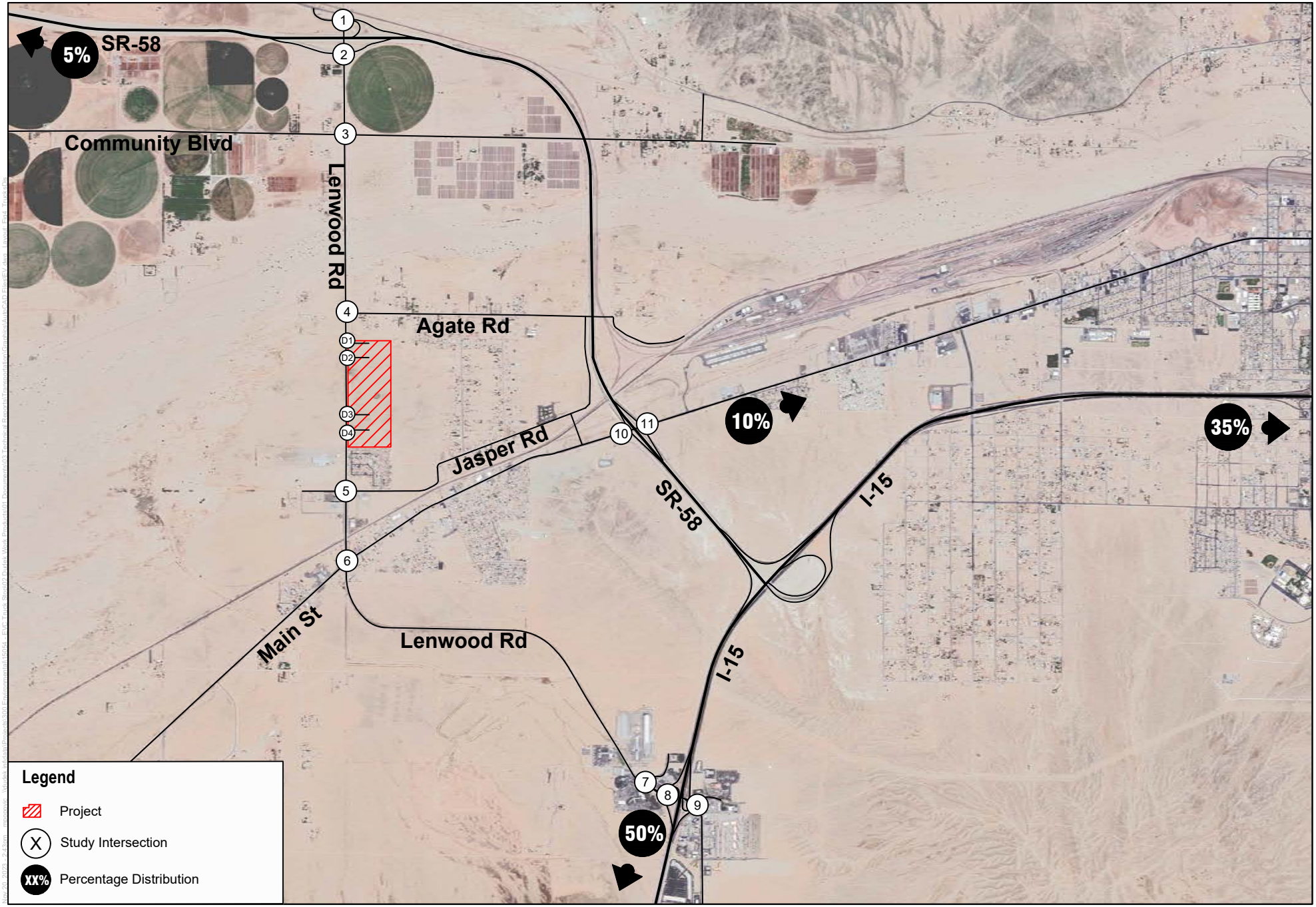
DUDEK

Not to Scale

FIGURE 3

Project Passenger Vehicle Trip Distribution

EV Charging Truck Stop & Distribution Center



SOURCE: Google Earth 2023

DUDEK

Not to Scale

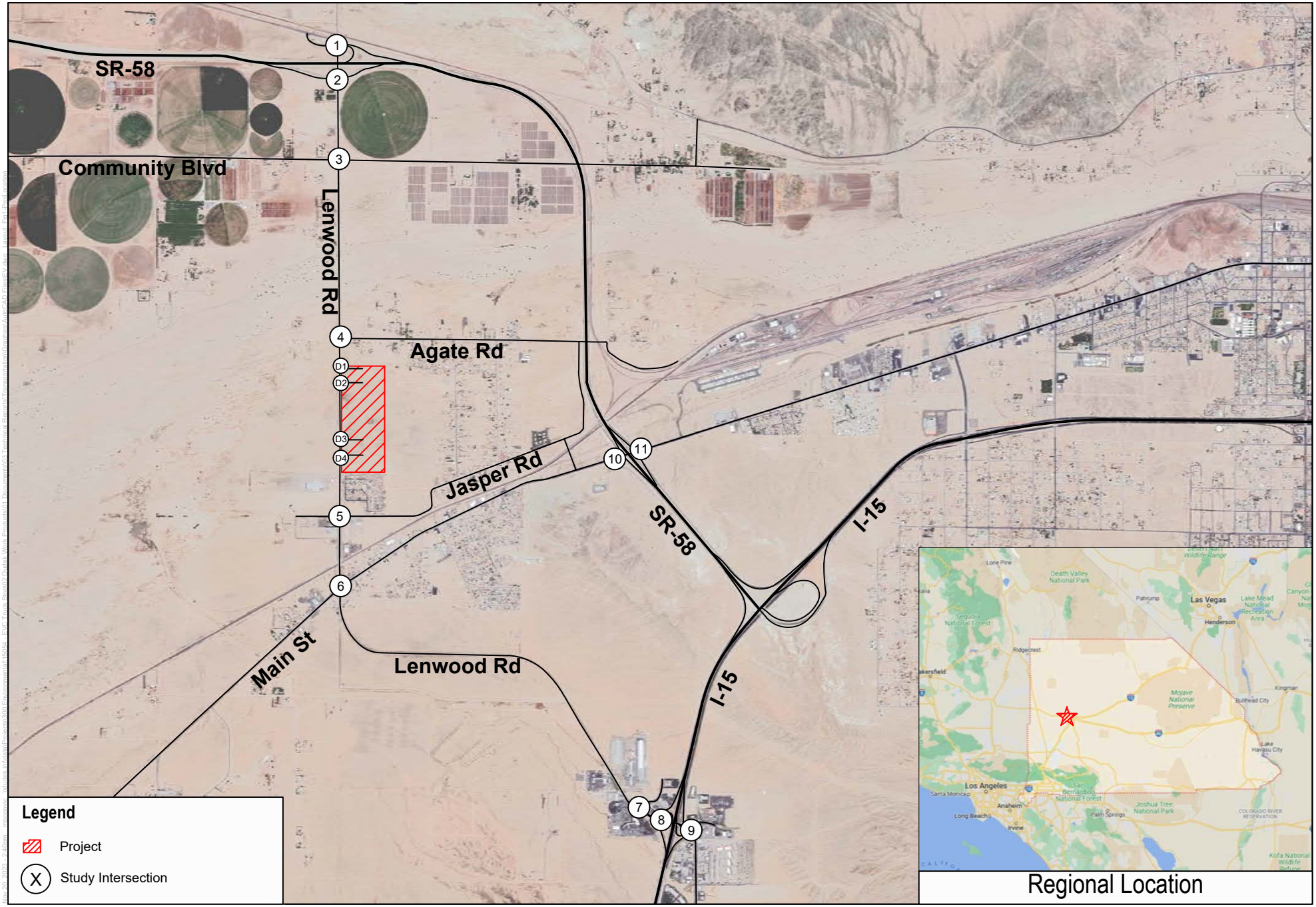
FIGURE 4

Project Truck Trip Distribution

EV Charging Truck Stop & Distribution Center

EV Charging Truck Stop and Distribution Center Project Trip Generation Summary

Utilization Rate Avg Vehicle/Day	987.8	493.4	205.4	1686.7	
Percent of Truck Traffic (same as warehouse vehicle mix)	40.0%	10.0%	50.0%		
Vehicles/Day Based on % of Traffic	132	33	164	329	daily trips
Average Daily Trucks	263	66	329	658	daily trips
AM Peak, equal split, 6% of daily total occurs during AM peak	6%				
PM Peak, equal split, assumes 7% of daily total occurs during PM peak	7%				



SOURCE: Google Earth 2023

DUDEK

Not to Scale

FIGURE 1

Project Location and Study Area

EV Charging Truck Stop & Distribution Center

SITE INFORMATION

APN : 049-714-203, 049-714-204, 049-716-214, 049-714-219
ZONING: CURRENT : RL - RURAL LIVING
PROPOSED : IC - COMMUNITY INDUSTRIAL
TOTAL GROSS SITE AREA: 4,347,927 G.S.F. = 99.81 ACRES
NET SITE AREA: 4,216,977 N.S.F. = 96.79 ACRES
BUILDING AREA: 1,341,432 S.F. OF INDUSTRIAL, AND UP TO 15,000 S.F COMMERCIAL USES
SITE COVERAGE: 30.17%
CONSTRUCTION TYPE: II-B, II-B OR V-B
BUILDING HEIGHT: 60'-0" TO UNDER SIDE OF ROOF DECK, MAXIMUM OVERALL ALLOWABLE 70'-0"
NUMBER OF STORIES: 1
PARKING: 1259 STALLS TOTAL

LOT COVERAGE / FLOOR AREA RATIO ANALYSIS:

LAND USE ZONING	PROPOSED LOT COVERAGE	LOT SIZE	MAXIMUM LOT COVERAGE ALLOWED	TOTAL LOT COVERAGE
PROPOSED IC - COMMUNITY INDUSTRIAL	3,970,486 SQ. FT.	4,216,977 N.S.F.	85%	3,970,486 / 4,216,977 = 0.9419

LAND USE ZONING	FLOOR AREA RATIO MAXIMUM COVERAGE	TOTAL BUILDING AREA	TOTAL LOT AREA	TOTAL FAR
PROPOSED IC - COMMUNITY INDUSTRIAL	.45 / 1	1,356,432 SQ. FT.	4,216,977 N.S.F.	1,356,432 / 4,216,977 = .32

LANDSCAPING STANDARDS ANALYSIS:

LAND USE ZONING	MINIMUM LANDSCAPE AREA	
	AS A % OF LOT AREA	AREA IN SQ. FT.
PREDOMINANTLY INDUSTRIAL / WAREHOUSE	10 %	1,059 SQ. FT.

TOTAL LANDSCAPED AREA = ± 827,041 SQ. FT. = 19%

TOTAL BIO-RETENTION AREA = ± 163,237 SQ. FT.

EV CHARGING / LOW CARBON FUELS HUB

TOTAL GROSS SITE AREA: 933,604 G.S.F. = 20.72 ACRES
NET SITE AREA: 876,170 N.S.F. = 20.11 ACRES
HD / MD EV CHARGING AREA: 411,499 N.S.F. = 9.45 ACRES
LOW CARBON FUELS AREA: 464,191 N.S.F. = 10.67 ACRES
BUILDING AREA: UP TO 15,000 SQ.FT. COMMERCIAL USES
SITE COVERAGE: 3.35%
CONSTRUCTION TYPE: II-B OR V-B
BUILDING HEIGHT: ±45'-0"
NUMBER OF STORES: 1
PARKING: 69 STALLS TOTAL
TRUCK PARKING: 64 STALLS TOTAL

PARKING STANDARDS: RIVPA COUNTY ZONING CODE TABLE 18.110.030)
- GENERAL RETAIL 1059 S.F.
  (15,000 S.F. @ 1/250 S.F.) = 60 TOTAL STALLS
- ** REQUIRED: 63 STALLS
- ** PROVIDED: 69 STALLS
- STANDARD STALLS: 90 9' X 18' (17' WITH A 2'-0" OVERHANG)
- COMPACT STALLS: 0 8' X 16' (14' WITH A 2'-0" OVERHANG) 6% OF TOTAL STALLS

ACCESSIBLE & DESIGNATED PARKING STALLS (REQUIRED AND PROVIDED) :

PER 2022 CBC TABLE 11B-208.2: 70 TO 100 STALLS, 4 STALLS REQUIRED TO BE ACCESSIBLE STALLS. EVERY 6 OR FRACTION OF SIX, AT LEAST ONE SHALL BE VAN PARKING.
6 ADA STALLS (INCLUDING 1 VAN ACCESSIBLE STALLS) PROVIDED.

PER 2019 CALIFORNIA GREEN BUILDING CODE TABLE 6.106.5.3: 70 TO 100 STALLS, 17 REQUIRED EV CAPABLE SPACES. OF THESE 4 ARE REQUIRED TO BE PROVIDED WITH EVSE.
22 EVSTALLS PROVIDED ALL TO HAVE EVSE

PER CBC TABLE 11B-228.3.2.1, 4 TO 25 EVCS STALLS: 1 VAN ACCESSIBLE EVCS, 1 STANDARD ACCESSIBLE EVCS AND 2 AMBULATORY EVCS ARE REQUIRED.
OF THE 22 EVCS REQUIRED, 1 VAN EVCS, 1 STANDARD ADA EVCS, AND 4 AMBULATORY EVCS ARE PROVIDED AS SHOWN.

TYPICAL WAREHOUSE BUILDING (BUILDING A)

TOTAL GROSS SITE AREA: 1,137,962 G.S.F. = 26.12 ACRES
NET SITE AREA: 1,103,259 N.S.F. = 25.33 ACRES
BUILDING AREA: 447,144 S.F.
SITE COVERAGE: 43.03%
CONSTRUCTION TYPE: II-B OR V-B
BUILDING HEIGHT: 59'-0" TO UNDER SIDE OF ROOF DECK, MAXIMUM OVERALL ALLOWABLE 70'-0"
CLEAR HEIGHT: 36'-0"
NUMBER OF STORES: 1
PARKING: 430 STALLS TOTAL
TRAILER PARKING: 110 STALLS TOTAL

PARKING STANDARDS: (SAN BERNARDINO COUNTY ZONING CODE TABLE 83-13)
- WAREHOUSING 171,000 S.F. FOR THE FIRST 40,000 S.F. 1/4,000 S.F. FOR ALL WAREHOUSE EXCEEDING 40,000 S.F.
  (40,000 S.F. @ 1/1,000 S.F. = 40 STALLS + (373,305 S.F @ 1/4,000 S.F. = 94 STALLS) = 134 TOTAL STALLS
- POTENTIAL OFFICE SPACE @ 19.5% OF BUILDING AREA = 1059 S.F.
  (73,779 S.F. @ 1/250) = 296 TOTAL STALLS
- ** REQUIRED: 430 STALLS
- ** PROVIDED: 430 STALLS
- STANDARD STALLS: 430 9' X 19' (17' WITH A 2'-0" OVERHANG)
- COMPACT STALLS: 0 8' X 19' (14' WITH A 2'-0" OVERHANG) 0% OF TOTAL STALLS

ACCESSIBLE & DESIGNATED PARKING STALLS (REQUIRED AND PROVIDED) :

PER 2022 CBC TABLE 11B-208.2: 401 TO 500 STALLS, 9 STALLS REQUIRED TO BE ACCESSIBLE STALLS. EVERY 6 OR FRACTION OF SIX, AT LEAST ONE SHALL BE VAN PARKING.
9 ADA STALLS (INCLUDING 2 VAN ACCESSIBLE STALLS) PROVIDED.

PER 2019 CALIFORNIA GREEN BUILDING CODE TABLE 6.106.5.3.1: OVER 201 STALLS, 20% OF TOTAL REQUIRED TO BE EV CAPABLE SPACES. 430 X 0.2 = 84. OF THESE, 20% ARE TO BE PROVIDED WITH EVSE. 84 X 0.20 = 21. 84 EV STALLS PROVIDED AND 22 TO HAVE EVSE INSTALLED

PER CBC TABLE 11B-228.3.2.1, 76 TO 100 EVCS STALLS: 1 VAN ACCESSIBLE EVCS, 1 STANDARD ACCESSIBLE EVCS AND 3 AMBULATORY EVCS ARE REQUIRED.
OF THE 22 EVCS REQUIRED, 1 VAN EVCS, 1 STANDARD ADA EVCS, AND 3 AMBULATORY EVCS ARE PROVIDED AS SHOWN.

KEYNOTES:

1. EXISTING PROPERTY LINES
2. PROPOSED NEW PARCEL LINES
3. TYPICAL LANDSCAPE AREAS
4. TYPICAL BIO--RETENTION AREA
5. PROPOSED LOCATION OF NEW SITE ACCESS DRIVE CURB CUT
6. TYPICAL DRIVE ISLE
7. TYPICAL PARKING:
   A. STANDARD STALLS: 9' X 19' OR 9' X 17' WITH 2' PARKING OVERHANG.
   B. COMPACT STALLS: 8' X 18' OR 8' X 14' WITH 2' PARKING OVERHANG (33% MAX).
   C. ACCESSIBLE PARKING STALLS: 9' X 18' MIN. WITH 2' PARKING OVERHANG WITH 5' OR 8' WIDE LOADING ZONE
   D. ELECTRIC VEHICLE CHARGING SPACES (STALLS LABELED "ELECTRIC VEHICLE CHARGING"). TO FOLLOW REQUIREMENTS PER CBSC 5.106.5.3.1.
   E. ACCESSIBLE ELECTRIC VEHICLE CHARGING STALLS, VAN, STANDARD, AND AMBULATORY.
8. NEW CONCRETE PEDESTRIAN WALKS. ASSUME ALL SIDEWALKS TO BE ACCESSIBLE PATH OF TRAVEL. SLOPE NOT TO EXCEED 1:20 (5%) IN DIRECTION OF TRAVEL. CROSS SLOPE NOT TO EXCEED 1:50 (2%) WHERE PARKING OVERHANG OCCURS, INCREASE WIDTH OF SIDEWALK TO 6'--0" MIN.
9. SEMI TRACTOR TRAILER TEMPLATE SHOWN FOR REFERENCE ONLY
10. 60' DEPRESSED CONCRETE TRUCK DOCK WITH CURB AND GUARDRAIL AT EACH SIDE
11. LOADING DOCK ROLL UP DOOR, TYPICAL
12. GRADE LEVEL ROLL UP DOOR, TYPICAL
13. PREFABRICATED PAINTED STEEL DOCK STAIR AND BOLLARDS
14. TRAILER PARKING STALLS WITH CONCRETE DOLLY PADS
15. DASHED LINE INDICATES 2'--0" PARKING OVERHANG
16. SEMI TRUCK AND TRAILER PARKING STALLS
17. POTENTIAL ELECTRICAL VEHICLE SERVICE EQUIPMENT (EVSE)
18. POTENTIAL SOLAR CANOPY -- MAY BE PLACED ABOVE ANY PARKING SPACE ON SITE
19. POTENTIAL SOLAR STORAGE BATTERIES
20. OMITTED
21. LIGHT DUTY PULL THROUGH CHARGING
22. MEDIUM DUTY / HEAVY DUTY TRUCK CHARGING
23. RENEWABLE DIESEL FUELING
24. RENEWABLE COMPRESSED NATURAL GAS FUELING
25. HYDROGEN FUELING
26. UP TO 15,000 SQ. FT. COMMERCIAL BUILDING WITH DRIVE THRU WINDOW

SITE LEGEND:

- BUILDING AREA
- SITE CONCRETE
- COMMERCIAL AREA
- STORM WATER RETENTION AREA
- ASPHALT AREA
- LANDSCAPE AREA
- EXISTING PROPERTY LINE
- NEW PARCEL LINE
- 9' X 10' OVERHEAD DOCK LEVEL DOOR
- 12' X 14' OVERHEAD GRADE LEVEL DOOR

0 50' 100' 200' TRUE NORTH

PRELIMINARY SITE MASTER PLAN
SCALE: 1" = 100'-0"
1

RMW
RMW Architecture Interiors
1718 Third Street Suite 101 Sacramento California 95811
Office 916 449--1400
rmw.com

OWNER / DEVELOPER:

PRELIMINARY DESIGN DRAWINGS FOR:

EV CHARGING / LOW CARBON FUELS HUB AND INDUSTRIAL BUILDINGS
SAN BERNARDINO, CALIFORNIA

approved for the owner by :
approved for the architect by :

issue :	description :	date :
A	ISSUED FOR DESIGN REVIEW	08-09-2023

GENERAL CONTRACTOR:

drawn by : TLG plot date : 08-09-2023
checked by : JDL
stamp

scale : AS NOTED
project number : 2230406.00

PRELIMINARY MASTER SITE PLAN

sheet no. :
A01.0

SOURCE: RMW Architecture Interiors, 2023

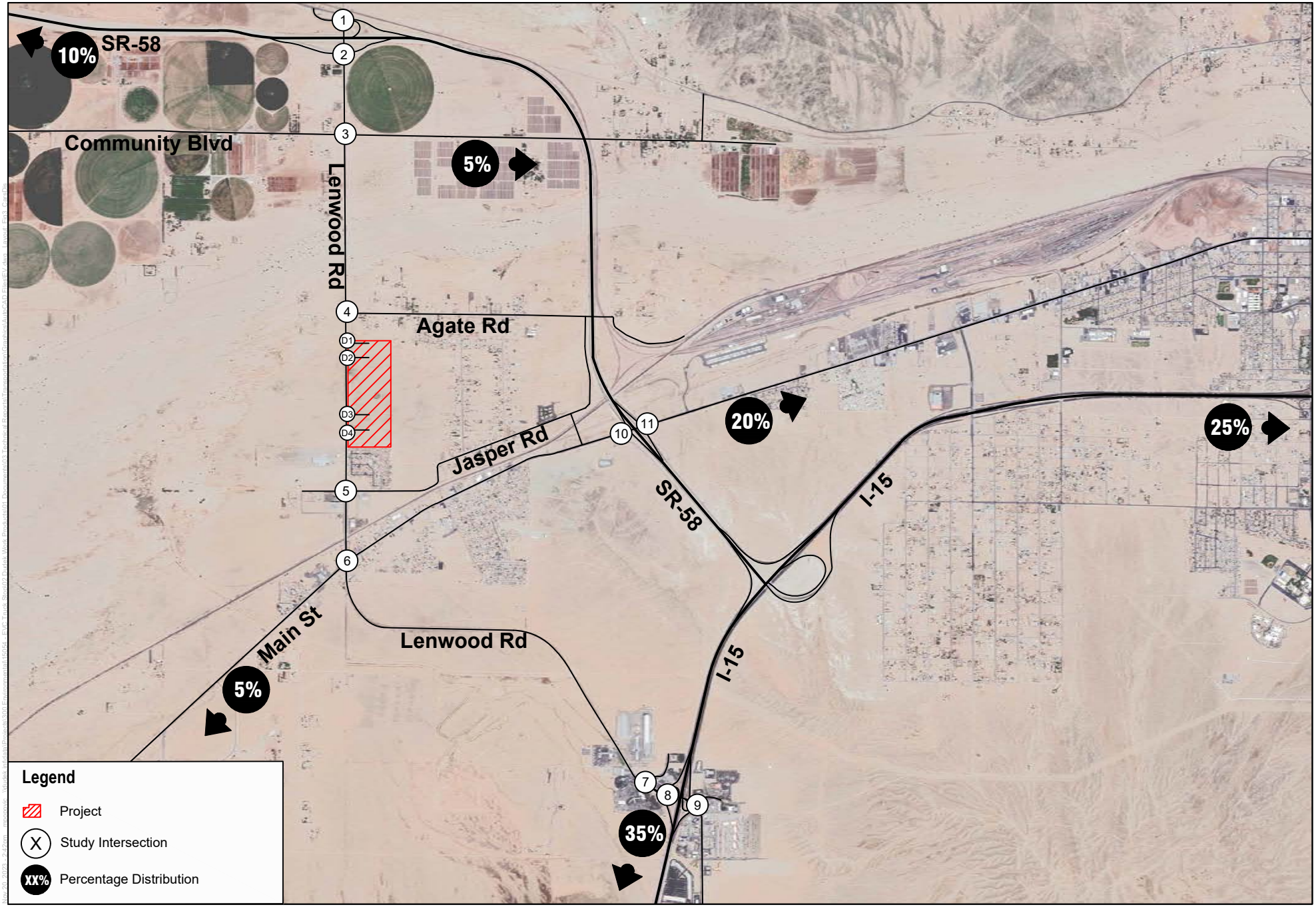
FIGURE 2

Project Site Plan

EV Charging/Low Carbon Fuels Auto/Truck Stop and Distribution Center Project

DUDEK

Not to Scale



SOURCE: Google Earth 2023

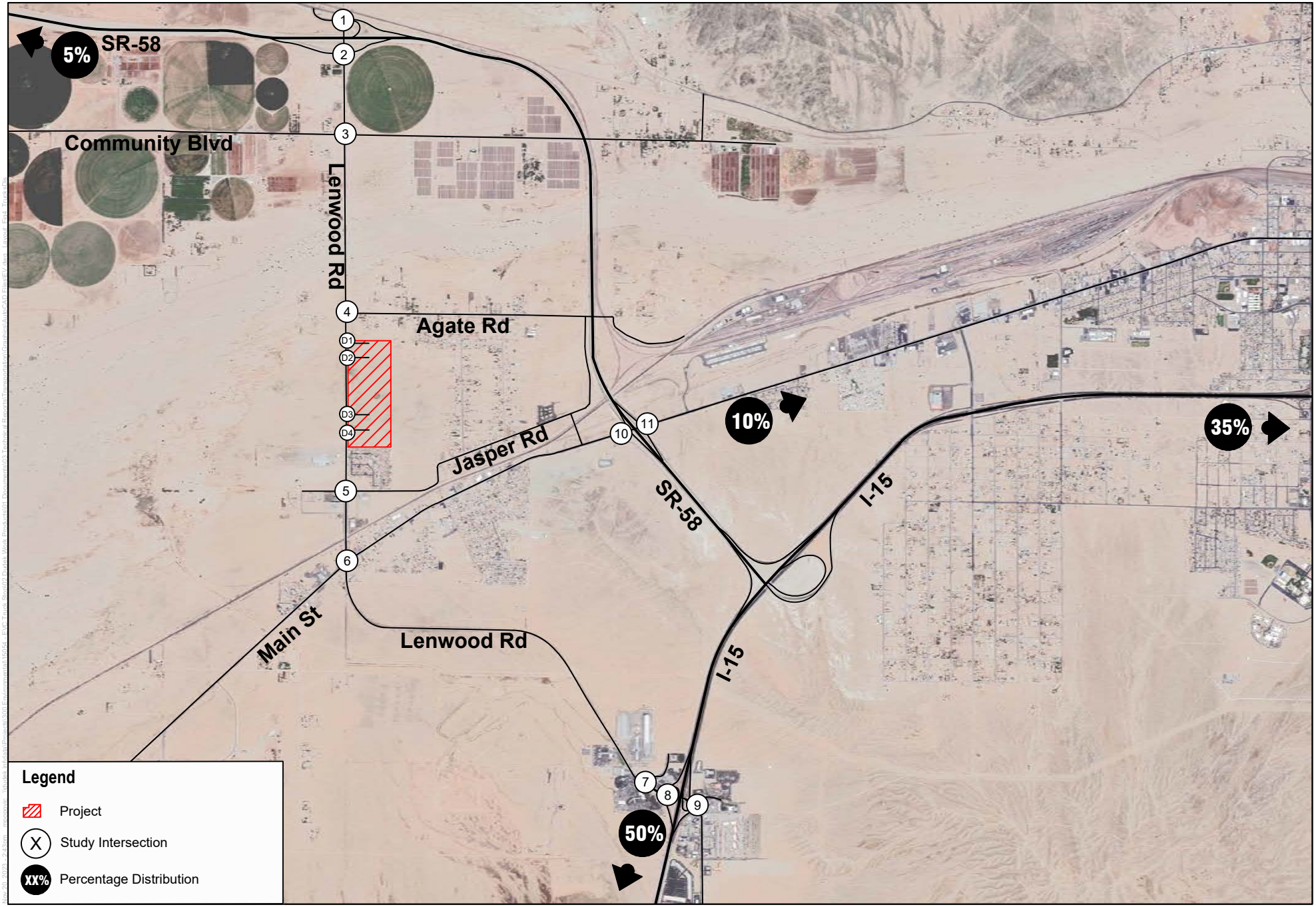
DUDEK

Not to Scale

FIGURE 3

Project Passenger Vehicle Trip Distribution

EV Charging Truck Stop & Distribution Center



SOURCE: Google Earth 2023

DUDEK

Not to Scale

FIGURE 4

Project Truck Trip Distribution

EV Charging Truck Stop & Distribution Center

Appendix B
Raw Traffic Counts

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Thu, May 11, 23

LOCATION: Barstow
NORTH & SOUTH: Lenwood
EAST & WEST: SR-58 WB Ramps

PROJECT #: SC4025
LOCATION #: 1
CONTROL: STOP ALL

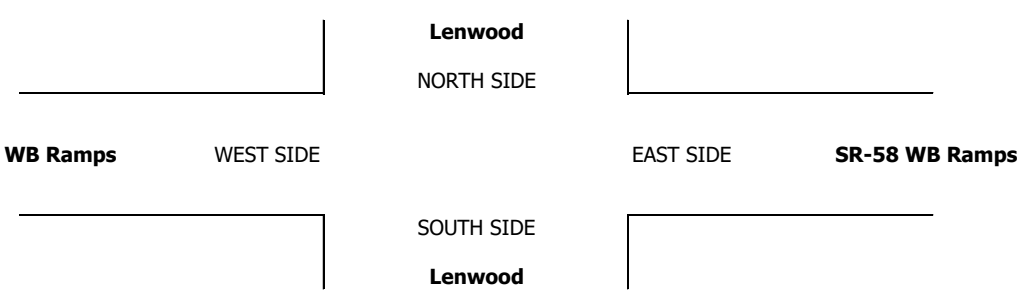
NOTES:

AM
PM
MD
OTHER
OTHER

N
◄ W
E ►
S

☑ Add U-Turns to Left Turns

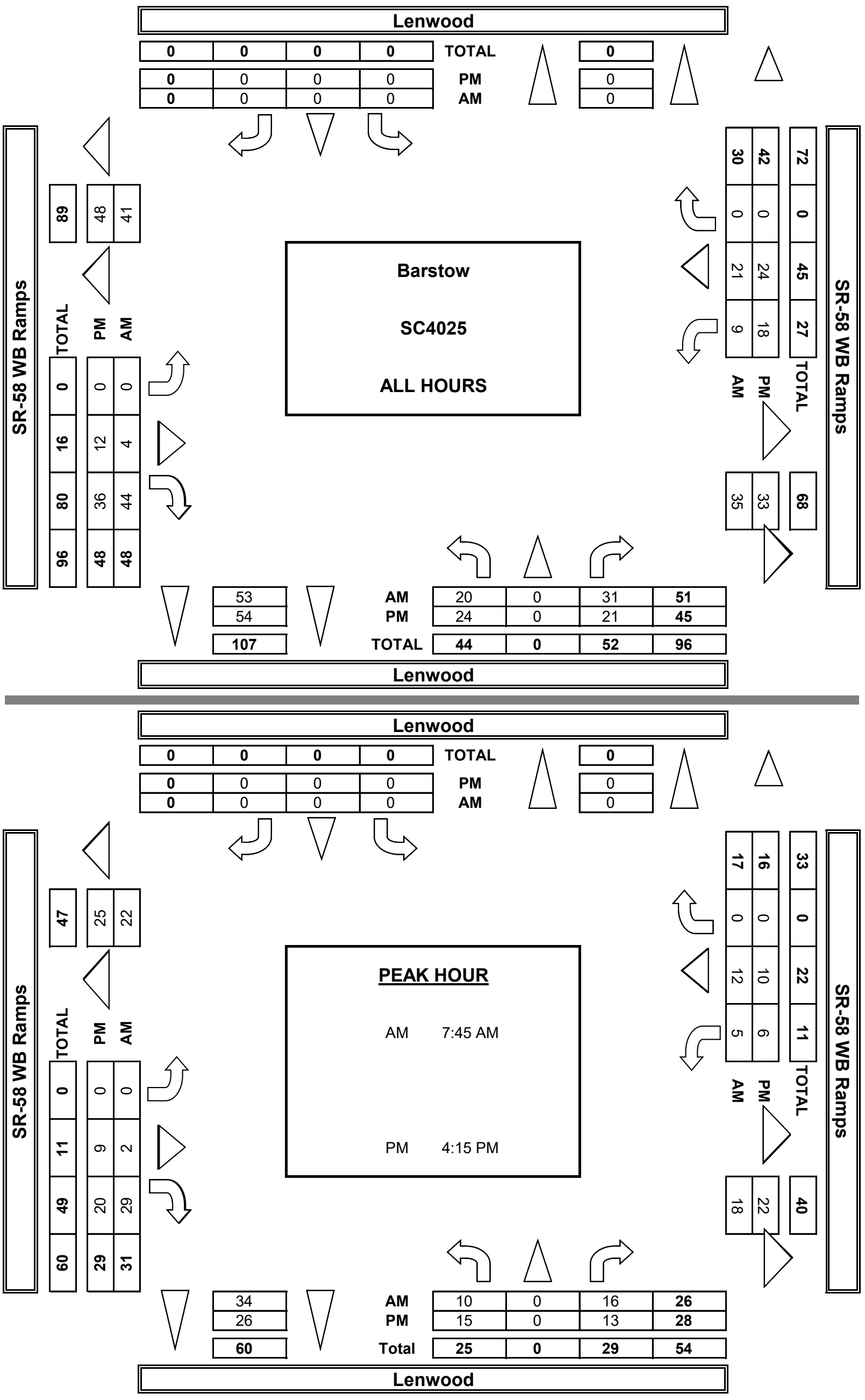
		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 WB Ramps			WESTBOUND SR-58 WB Ramps				U-TURNS				
	LANES:	NL 1	NT X	NR 1	SL X	ST X	SR X	EL X	ET 1	ER 1	WL 1	WT 1	WR X	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	2	0	6	0	0	0	0	1	4	1	0	0	14	0	0	0	0	0
	7:15 AM	2	0	1	0	0	0	0	1	5	1	2	0	12	0	0	0	0	0
	7:30 AM	5	0	2	0	0	0	0	0	2	1	4	0	14	0	0	0	0	0
	7:45 AM	2	0	5	0	0	0	0	0	9	3	4	0	23	0	0	0	0	0
	8:00 AM	3	0	2	0	0	0	0	1	6	2	0	0	14	0	0	0	0	0
	8:15 AM	3	0	2	0	0	0	0	0	10	0	5	0	20	0	0	0	0	0
	8:30 AM	2	0	7	0	0	0	0	1	4	0	3	0	17	0	0	0	0	0
	8:45 AM	1	0	6	0	0	0	0	0	4	1	3	0	15	0	0	0	0	0
	VOLUMES	20	0	31	0	0	0	0	4	44	9	21	0	129	0	0	0	0	0
	APPROACH %	39%	0%	61%	0%	0%	0%	0%	8%	92%	30%	70%	0%						
	APP/DEPART	51	/	0	0	/	53	48	/	35	30	/	41	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	10	0	16	0	0	0	0	2	29	5	12	0	74					
	APPROACH %	38%	0%	62%	0%	0%	0%	0%	6%	94%	29%	71%	0%						
	PEAK HR FACTOR		0.722			0.000			0.775			0.607		0.804					
	APP/DEPART	26	/	0	0	/	34	31	/	18	17	/	22	0					
PM	4:00 PM	3	0	4	0	0	0	0	2	1	4	2	0	16	0	0	0	0	0
	4:15 PM	4	0	5	0	0	0	0	0	8	0	5	0	22	0	0	0	0	0
	4:30 PM	6	0	4	0	0	0	0	2	2	1	0	0	15	0	0	0	0	0
	4:45 PM	4	0	2	0	0	0	0	3	4	2	4	0	19	0	0	0	0	0
	5:00 PM	1	0	2	0	0	0	0	4	6	3	1	0	17	0	0	0	0	0
	5:15 PM	2	0	2	0	0	0	0	0	5	2	5	0	16	0	0	0	0	0
	5:30 PM	4	0	1	0	0	0	0	0	3	2	5	0	15	0	0	0	0	0
	5:45 PM	0	0	1	0	0	0	0	1	7	4	2	0	15	0	0	0	0	0
	VOLUMES	24	0	21	0	0	0	0	12	36	18	24	0	135	0	0	0	0	0
	APPROACH %	53%	0%	47%	0%	0%	0%	0%	25%	75%	43%	57%	0%						
	APP/DEPART	45	/	0	0	/	54	48	/	33	42	/	48	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	15	0	13	0	0	0	0	9	20	6	10	0	73					
	APPROACH %	54%	0%	46%	0%	0%	0%	0%	31%	69%	38%	63%	0%						
	PEAK HR FACTOR		0.700			0.000			0.725			0.667		0.830					
	APP/DEPART	28	/	0	0	/	26	29	/	22	16	/	25	0					



		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS



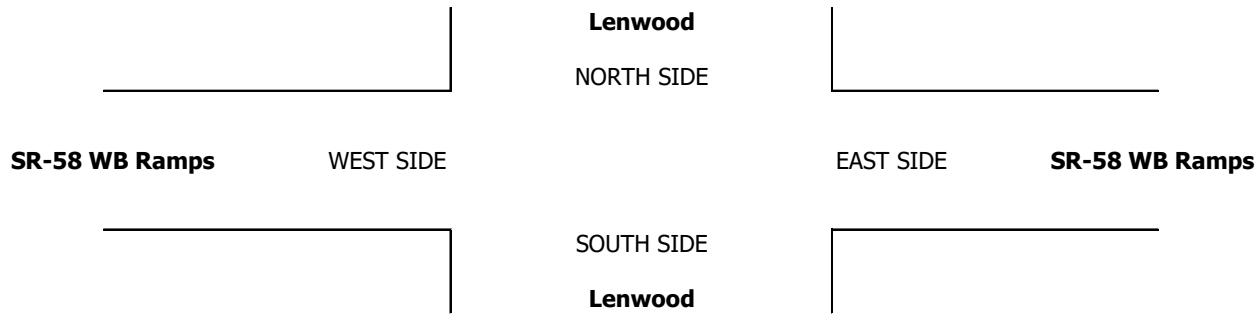
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	1
	EAST & WEST:	SR-58 WB Ramps	CONTROL:	STOP ALL

	NOTES:									AM		▲ N	
PCE Adjusted	Class	1	2	3	4	5	6			PM			
	Factor	1	1.5	2	3	2	2			MD	◄ W		E ►
										OTHER		S ▼	
										OTHER			

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 WB Ramps			WESTBOUND SR-58 WB Ramps				U-TURNS				
	LANES:	NL 1	NT X	NR 1	SL X	ST X	SR X	EL X	ET 1	ER 1	WL 1	WT 1	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	3	0	11	0	0	0	0	1	6	1	0	0	22					0
	7:15 AM	2	0	1	0	0	0	0	1	5	1	3	0	13					0
	7:30 AM	7	0	3	0	0	0	0	0	2	1	4	0	17					0
	7:45 AM	2	0	7	0	0	0	0	0	10	5	4	0	27					0
	8:00 AM	3	0	2	0	0	0	0	3	6	4	0	0	18					0
	8:15 AM	4	0	4	0	0	0	0	0	11	0	6	0	24					0
	8:30 AM	2	0	17	0	0	0	0	2	4	0	4	0	28					0
	8:45 AM	1	0	13	0	0	0	0	0	4	1	4	0	23					0
	VOLUMES	24	0	56	0	0	0	0	7	47	13	24	0	170	0	0	0	0	0
	APPROACH %	30%	0%	70%	0%	0%	0%	0%	12%	88%	35%	65%	0%						
	APP/DEPART	80	/	0	0	/	60	54	/	63	37	/	48	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	11	0	29	0	0	0	0	5	30	9	13	0	96					
	APPROACH %	27%	0%	73%	0%	0%	0%	0%	13%	87%	41%	59%	0%						
	PEAK HR FACTOR		0.534			0.000			0.821			0.611		0.873					
	APP/DEPART	40	/	0	0	/	39	35	/	34	22	/	24	0					
PM	4:00 PM	3	0	6	0	0	0	0	2	1	4	2	0	18					0
	4:15 PM	4	0	10	0	0	0	0	0	11	0	7	0	32					0
	4:30 PM	6	0	8	0	0	0	0	2	2	1	0	0	19					0
	4:45 PM	4	0	4	0	0	0	0	3	4	3	4	0	22					0
	5:00 PM	1	0	4	0	0	0	0	4	7	3	1	0	20					0
	5:15 PM	2	0	6	0	0	0	0	0	5	2	7	0	22					0
	5:30 PM	4	0	1	0	0	0	0	0	3	2	5	0	15					0
	5:45 PM	0	0	1	0	0	0	0	2	7	4	2	0	16					0
	VOLUMES	24	0	40	0	0	0	0	13	40	19	28	0	163	0	0	0	0	0
	APPROACH %	38%	0%	63%	0%	0%	0%	0%	24%	76%	40%	60%	0%						
	APP/DEPART	64	/	0	0	/	58	52	/	53	47	/	52	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	15	0	26	0	0	0	0	9	24	7	12	0	92					
	APPROACH %	37%	0%	63%	0%	0%	0%	0%	28%	72%	35%	65%	0%						
	PEAK HR FACTOR		0.732			0.000			0.739			0.661		0.730					
	APP/DEPART	41	/	0	0	/	30	33	/	35	19	/	27	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

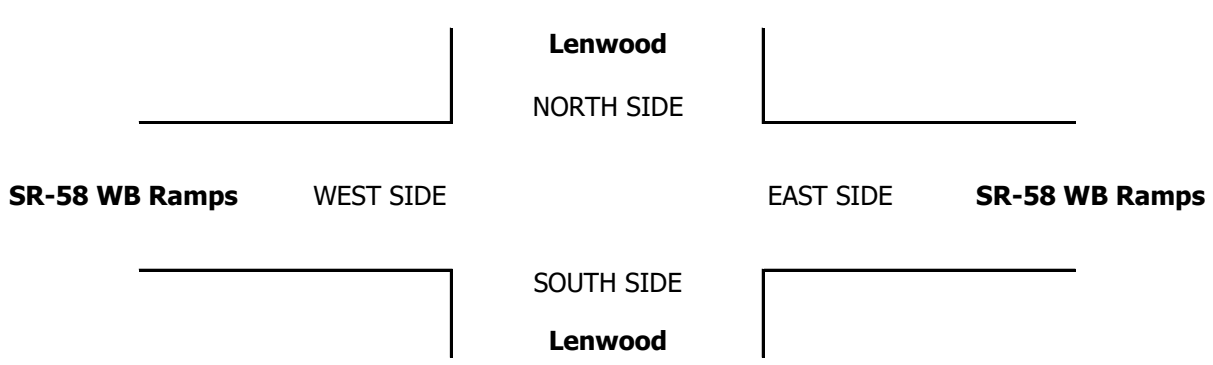
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	1
	EAST & WEST:	SR-58 WB Ramps	CONTROL:	STOP ALL

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 WB Ramps			WESTBOUND SR-58 WB Ramps				U-TURNS				
LANES:	NL 1	NT X	NR 1	SL X	ST X	SR X	EL X	ET 1	ER 1	WL 1	WT 1	WR X	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	1	0	3	0	0	0	0	1	3	1	0	0	9	0	0	0	0	0
7:15 AM	2	0	1	0	0	0	0	1	5	1	1	0	11	0	0	0	0	0
7:30 AM	4	0	0	0	0	0	0	0	2	1	4	0	11	0	0	0	0	0
7:45 AM	2	0	2	0	0	0	0	0	8	2	4	0	18	0	0	0	0	0
8:00 AM	3	0	2	0	0	0	0	0	6	1	0	0	12	0	0	0	0	0
8:15 AM	2	0	1	0	0	0	0	0	9	0	4	0	16	0	0	0	0	0
8:30 AM	2	0	1	0	0	0	0	0	4	0	2	0	9	0	0	0	0	0
8:45 AM	1	0	2	0	0	0	0	0	4	1	2	0	10	0	0	0	0	0
VOLUMES	17	0	12	0	0	0	0	2	41	7	17	0	96	0	0	0	0	0
APPROACH %	59%	0%	41%	0%	0%	0%	0%	5%	95%	29%	71%	0%						
APP/DEPART	29	/	0	0	/	48	43	/	14	24	/	34	0					
BEGIN PEAK HR		7:45 AM																
VOLUMES	9	0	6	0	0	0	0	0	27	3	10	0	55					
APPROACH %	60%	0%	40%	0%	0%	0%	0%	0%	100%	23%	77%	0%						
PEAK HR FACTOR		0.750			0.000			0.750			0.542		0.764					
APP/DEPART	15	/	0	0	/	30	27	/	6	13	/	19	0					
PM 4:00 PM	3	0	3	0	0	0	0	2	1	4	2	0	15	0	0	0	0	0
4:15 PM	4	0	2	0	0	0	0	0	6	0	2	0	14	0	0	0	0	0
4:30 PM	6	0	2	0	0	0	0	2	2	1	0	0	13	0	0	0	0	0
4:45 PM	4	0	1	0	0	0	0	3	4	1	4	0	17	0	0	0	0	0
5:00 PM	1	0	1	0	0	0	0	4	4	3	1	0	14	0	0	0	0	0
5:15 PM	2	0	0	0	0	0	0	0	5	2	4	0	13	0	0	0	0	0
5:30 PM	4	0	1	0	0	0	0	0	3	2	5	0	15	0	0	0	0	0
5:45 PM	0	0	1	0	0	0	0	0	7	4	2	0	14	0	0	0	0	0
VOLUMES	24	0	11	0	0	0	0	11	32	17	20	0	115	0	0	0	0	0
APPROACH %	69%	0%	31%	0%	0%	0%	0%	26%	74%	46%	54%	0%						
APP/DEPART	35	/	0	0	/	49	43	/	22	37	/	44	0					
BEGIN PEAK HR		4:15 PM																
VOLUMES	15	0	6	0	0	0	0	9	16	5	7	0	58					
APPROACH %	71%	0%	29%	0%	0%	0%	0%	36%	64%	42%	58%	0%						
PEAK HR FACTOR		0.656			0.000			0.781			0.600		0.853					
APP/DEPART	21	/	0	0	/	21	25	/	15	12	/	22	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

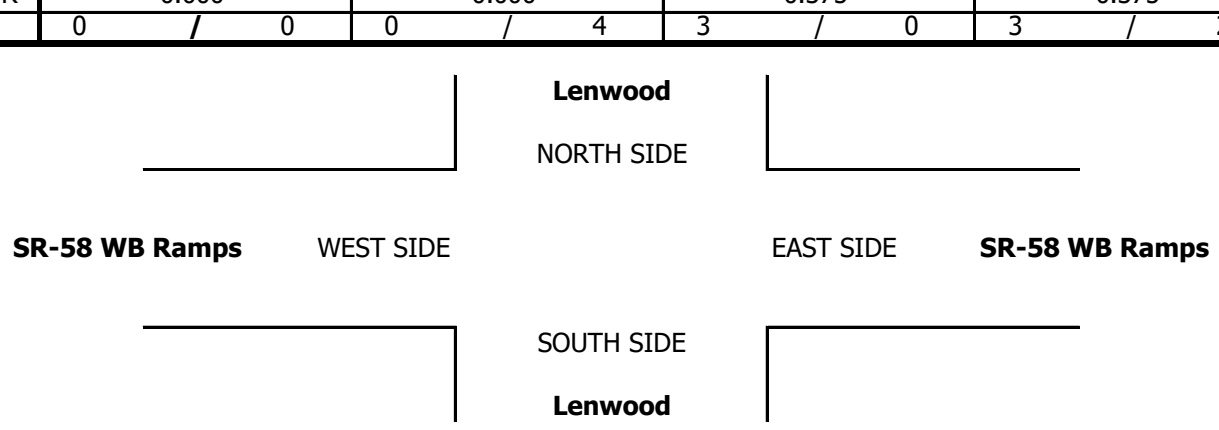
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	1
	EAST & WEST:	SR-58 WB Ramps	CONTROL:	STOP ALL

CLASS 2:	NOTES:
2-AXLE WORK VEHICLES/ TRUCKS	

AM PM MD OTHER OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 WB Ramps			WESTBOUND SR-58 WB Ramps				U-TURNS				
LANES:	NL 1	NT X	NR 1	SL X	ST X	SR X	EL X	ET 1	ER 1	WL 1	WT 1	WR X	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
7:45 AM	0	0	3	0	0	0	0	0	1	0	0	0	4	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	1	0	0	0	0	0	0	0	1	0	1	0	3	0	0	0	0	0
8:30 AM	0	0	1	0	0	0	0	1	0	0	1	0	3	0	0	0	0	0
8:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
VOLUMES	1	0	8	0	0	0	0	1	2	0	2	0	14	0	0	0	0	0
APPROACH %	11%	0%	89%	0%	0%	0%	0%	33%	67%	0%	100%	0%						
APP/DEPART	9	/	0	0	/	2	3	/	9	2	/	3	0					
BEGIN PEAK HR		7:45 AM																
VOLUMES	1	0	4	0	0	0	0	1	2	0	2	0	10					
APPROACH %	20%	0%	80%	0%	0%	0%	0%	33%	67%	0%	100%	0%						
PEAK HR FACTOR		0.417			0.000			0.750			0.500		0.625					
APP/DEPART	5	/	0	0	/	2	3	/	5	2	/	3	0					
PM 4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	1	0	2	0	3	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	1	3	1	2	0	7	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	25%	75%	33%	67%	0%						
APP/DEPART	0	/	0	0	/	4	4	/	1	3	/	2	0					
BEGIN PEAK HR		4:15 PM																
VOLUMES	0	0	0	0	0	0	0	0	3	1	2	0	6					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	100%	33%	67%	0%						
PEAK HR FACTOR		0.000			0.000			0.375			0.375		0.500					
APP/DEPART	0	/	0	0	/	4	3	/	0	3	/	2	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

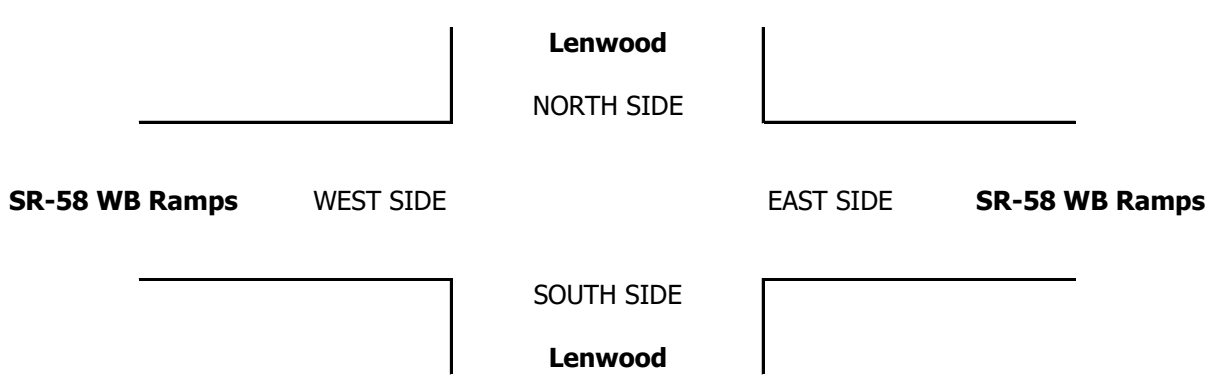
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	1
	EAST & WEST:	SR-58 WB Ramps	CONTROL:	STOP ALL

CLASS 3:	NOTES:
3-AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 WB Ramps			WESTBOUND SR-58 WB Ramps				U-TURNS				
	LANES:	NL 1	NT X	NR 1	SL X	ST X	SR X	EL X	ET 1	ER 1	WL 1	WT 1	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	VOLUMES	1	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%						
	APP/DEPART	1	/	0	0	/	0	0	/	0	1	/	2	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	1	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	1	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	100%	0%						
	APP/DEPART	1	/	0	0	/	0	0	/	1	1	/	1	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	1	0	0	0	0	0	0	0	1	0	2					
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.250			0.000			0.000			0.250		0.250					
	APP/DEPART	1	/	0	0	/	0	0	/	1	1	/	1	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

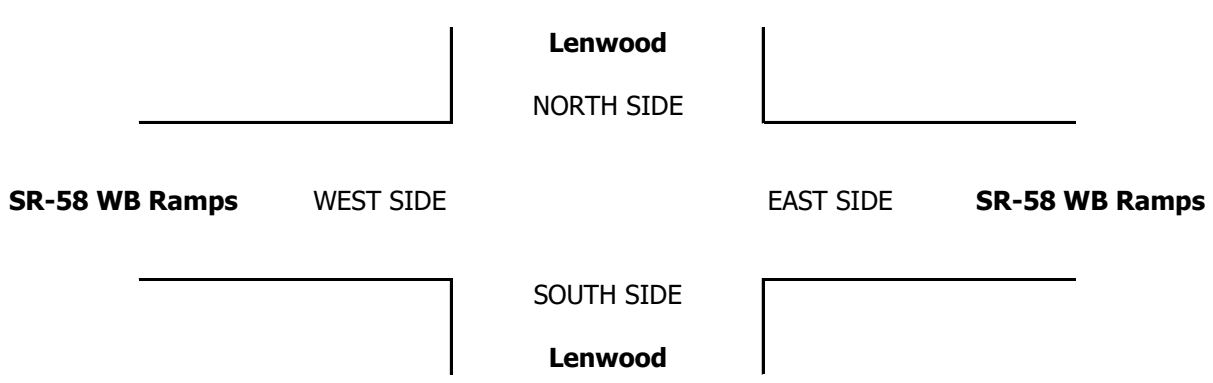
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	1
	EAST & WEST:	SR-58 WB Ramps	CONTROL:	STOP ALL

CLASS 4:	NOTES:
4 OR MORE AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 WB Ramps			WESTBOUND SR-58 WB Ramps				U-TURNS				
	LANES:	NL 1	NT X	NR 1	SL X	ST X	SR X	EL X	ET 1	ER 1	WL 1	WT 1	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	2	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	0	0
	8:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:30 AM	0	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
	8:45 AM	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
	VOLUMES	1	0	10	0	0	0	0	1	1	2	0	0	15	0	0	0	0	0
	APPROACH %	9%	0%	91%	0%	0%	0%	0%	50%	50%	100%	0%	0%						
	APP/DEPART	11	/	0	0	/	3	2	/	11	2	/	1	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	5	0	0	0	0	1	0	2	0	0	8					
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	100%	0%	100%	0%	0%						
	PEAK HR FACTOR		0.313			0.000			0.250			0.500		0.500					
	APP/DEPART	5	/	0	0	/	2	1	/	6	2	/	0	0					
PM	4:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:15 PM	0	0	2	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0
	4:30 PM	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	4:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	5:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	5:15 PM	0	0	2	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	9	0	0	0	0	0	1	0	1	0	11	0	0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	100%	0%	100%	0%						
	APP/DEPART	9	/	0	0	/	1	1	/	9	1	/	1	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	6	0	0	0	0	0	1	0	0	0	7					
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%						
	PEAK HR FACTOR		0.750			0.000			0.250			0.000		0.583					
	APP/DEPART	6	/	0	0	/	1	1	/	6	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

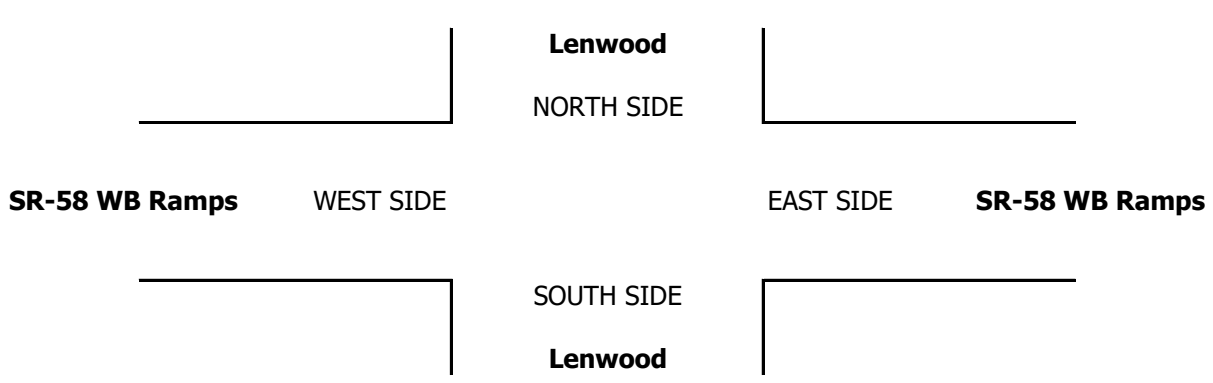
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	1
	EAST & WEST:	SR-58 WB Ramps	CONTROL:	STOP ALL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

	NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 WB Ramps			WESTBOUND SR-58 WB Ramps				U-TURNS				
LANES:	NL 1	NT X	NR 1	SL X	ST X	SR X	EL X	ET 1	ER 1	WL 1	WT 1	WR X	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		7:45 AM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM 4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		4:15 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

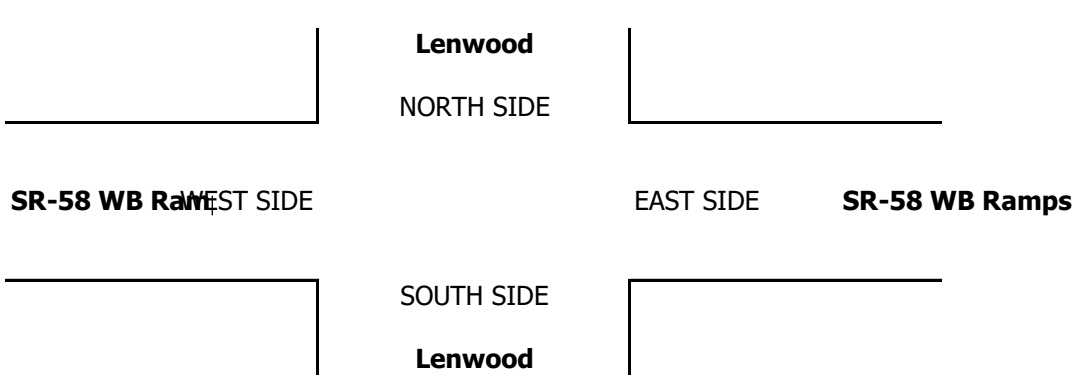
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	1
	EAST & WEST:	SR-58 WB Ramps	CONTROL:	STOP ALL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 WB Ramps			WESTBOUND SR-58 WB Ramps				U-TURNS				
	LANES:	NL 1	NT X	NR 1	SL X	ST X	SR X	EL X	ET 1	ER 1	WL 1	WT 1	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	1	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	100%	0%						
	APP/DEPART	1	/	0	0	/	0	0	/	1	1	/	1	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	1	0	0	0	0	0	0	0	0	0	1					
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.250			0.000			0.000			0.000		0.250					
	APP/DEPART	1	/	0	0	/	0	0	/	1	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
Thu, May 11, 23	LOCATION:	Barstow	PROJECT #:	SC4025
	NORTH & SOUTH:	Lenwood	LOCATION #:	2
	EAST & WEST:	SR-58 EB Ramps	CONTROL:	STOP ALL

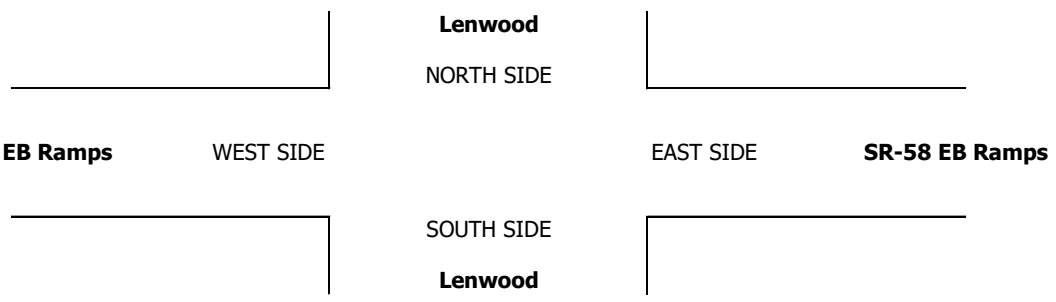
NOTES:

AM
PM
MD
OTHER
OTHER

▲ N
◄ W
E ►
S ▼

☑ Add U-Turns to Left Turns

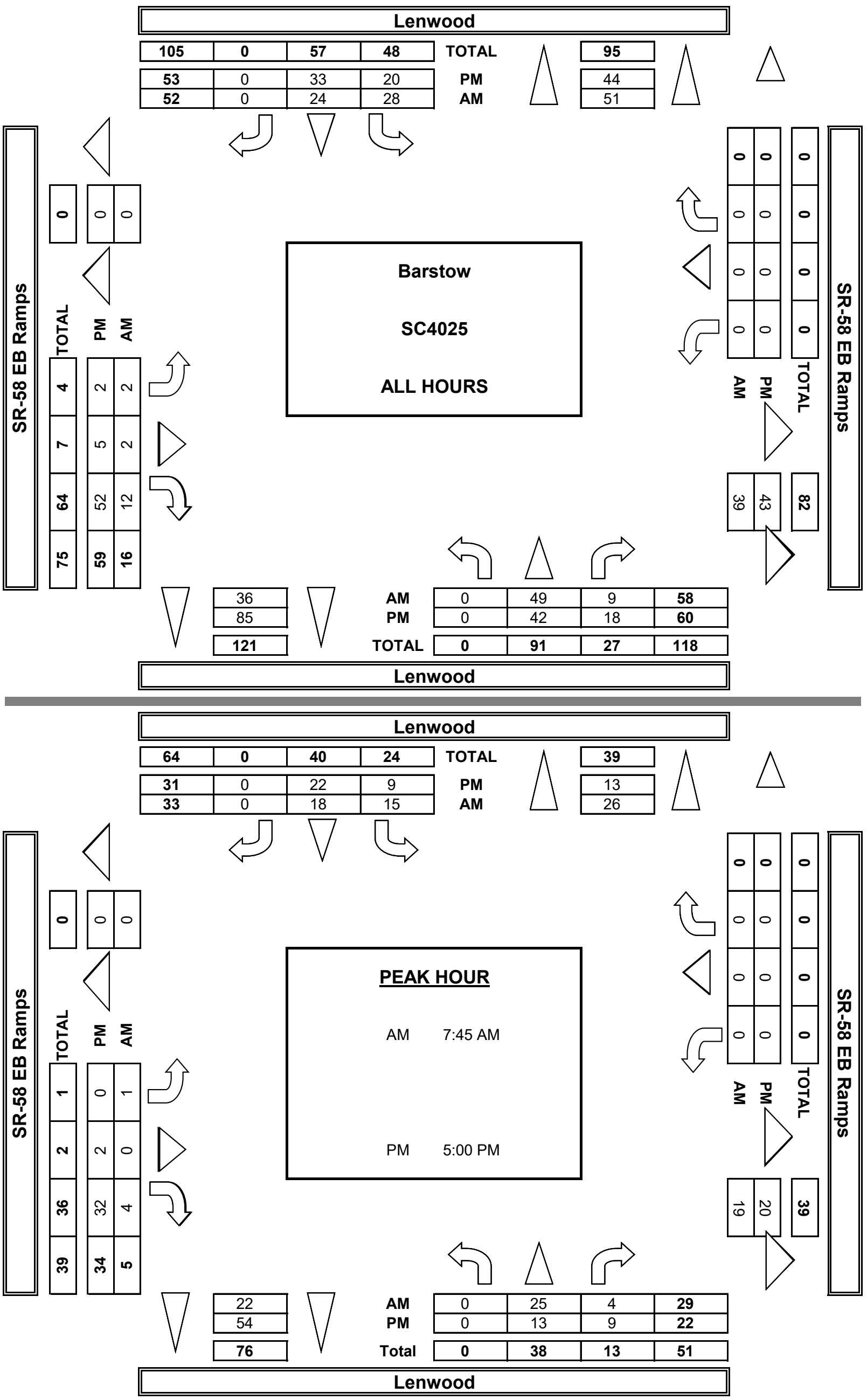
		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 EB Ramps			WESTBOUND SR-58 EB Ramps				U-TURNS				
	LANES:	NL X	NT 1	NR 0	SL 1	ST 1	SR X	EL 1	ET 0.5	ER 0.5	WL X	WT X	WR X	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	0	8	3	4	1	0	0	1	3	0	0	0	20	0	0	0	0	0
	7:15 AM	0	2	0	4	2	0	1	1	1	0	0	0	11	0	0	0	0	0
	7:30 AM	0	7	0	1	2	0	0	0	2	0	0	0	12	0	0	0	0	0
	7:45 AM	0	7	2	5	7	0	0	0	0	0	0	0	21	0	0	0	0	0
	8:00 AM	0	4	1	2	6	0	1	0	4	0	0	0	18	0	0	0	0	0
	8:15 AM	0	5	0	6	4	0	0	0	0	0	0	0	15	0	0	0	0	0
	8:30 AM	0	9	1	2	1	0	0	0	0	0	0	0	13	0	0	0	0	0
	8:45 AM	0	7	2	4	1	0	0	0	2	0	0	0	16	0	0	0	0	0
	VOLUMES	0	49	9	28	24	0	2	2	12	0	0	0	126	0	0	0	0	0
	APPROACH %	0%	84%	16%	54%	46%	0%	13%	13%	75%	0%	0%	0%						
	APP/DEPART	58	/	51	52	/	36	16	/	39	0	/	0	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	25	4	15	18	0	1	0	4	0	0	0	67					
	APPROACH %	0%	86%	14%	45%	55%	0%	20%	0%	80%	0%	0%	0%						
	PEAK HR FACTOR		0.725			0.688			0.250			0.000		0.798					
	APP/DEPART	29	/	26	33	/	22	5	/	19	0	/	0	0					
PM	4:00 PM	0	5	4	1	4	0	1	0	3	0	0	0	18	0	0	0	0	0
	4:15 PM	0	8	1	5	3	0	1	1	5	0	0	0	24	0	0	0	0	0
	4:30 PM	0	10	3	2	1	0	0	1	2	0	0	0	19	0	0	0	0	0
	4:45 PM	0	6	1	3	3	0	0	1	10	0	0	0	24	0	0	0	0	0
	5:00 PM	0	3	0	3	6	0	0	0	7	0	0	0	19	0	0	0	0	0
	5:15 PM	0	4	3	3	3	0	0	0	5	0	0	0	18	0	0	0	0	0
	5:30 PM	0	5	3	1	5	0	0	0	10	0	0	0	24	0	0	0	0	0
	5:45 PM	0	1	3	2	8	0	0	2	10	0	0	0	26	0	0	0	0	0
	VOLUMES	0	42	18	20	33	0	2	5	52	0	0	0	172	0	0	0	0	0
	APPROACH %	0%	70%	30%	38%	62%	0%	3%	8%	88%	0%	0%	0%						
	APP/DEPART	60	/	44	53	/	85	59	/	43	0	/	0	0					
	BEGIN PEAK HR		5:00 PM																
	VOLUMES	0	13	9	9	22	0	0	2	32	0	0	0	87					
	APPROACH %	0%	59%	41%	29%	71%	0%	0%	6%	94%	0%	0%	0%						
	PEAK HR FACTOR		0.688			0.775			0.708			0.000		0.837					
	APP/DEPART	22	/	13	31	/	54	34	/	20	0	/	0	0					



		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
	TOTAL	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	2
	EAST & WEST:	SR-58 EB Ramps	CONTROL:	STOP ALL

	NOTES:													
PCE Adjusted	Class	1	2	3	4	5	6			AM		▲ N		
	Factor	1	1.5	2	3	2	2			PM	◄ W		E ►	
										MD				
										OTHER		S ▼		
										OTHER				

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 EB Ramps			WESTBOUND SR-58 EB Ramps				U-TURNS				
	LANES:	NL X	NT 1	NR 0	SL 1	ST 1	SR X	EL 1	ET 0.5	ER 0.5	WL X	WT X	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	14	3	6	1	0	0	3	7	0	0	0	34					0
	7:15 AM	0	2	0	4	2	0	1	1	3	0	0	0	13					0
	7:30 AM	0	10	0	1	2	0	0	0	6	0	0	0	19					0
	7:45 AM	0	9	2	5	10	0	0	0	0	0	0	0	25					0
	8:00 AM	0	4	1	2	8	0	1	0	4	0	0	0	20					0
	8:15 AM	0	8	0	7	4	0	0	0	0	0	0	0	18					0
	8:30 AM	0	19	2	2	1	0	0	0	0	0	0	0	24					0
	8:45 AM	0	14	4	4	1	0	0	0	5	0	0	0	28					0
	VOLUMES	0	78	12	31	29	0	2	4	25	0	0	0	180	0	0	0	0	0
	APPROACH %	0%	87%	13%	52%	48%	0%	6%	13%	81%	0%	0%	0%						
	APP/DEPART	90	/	80	59	/	54	31	/	47	0	/	0	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	39	5	16	23	0	1	0	4	0	0	0	87					
	APPROACH %	0%	89%	11%	41%	59%	0%	20%	0%	80%	0%	0%	0%						
	PEAK HR FACTOR		0.530			0.655			0.250			0.000		0.865					
	APP/DEPART	44	/	40	38	/	27	5	/	21	0	/	0	0					
PM	4:00 PM	0	7	7	1	4	0	1	0	5	0	0	0	25					0
	4:15 PM	0	13	1	8	3	0	1	3	9	0	0	0	38					0
	4:30 PM	0	14	3	2	1	0	0	3	2	0	0	0	25					0
	4:45 PM	0	8	1	4	3	0	0	1	18	0	0	0	35					0
	5:00 PM	0	5	0	4	6	0	0	0	7	0	0	0	22					0
	5:15 PM	0	8	3	3	3	0	0	0	7	0	0	0	24					0
	5:30 PM	0	5	3	1	5	0	0	0	17	0	0	0	31					0
	5:45 PM	0	1	3	2	8	0	0	4	20	0	0	0	38					0
	VOLUMES	0	61	21	24	33	0	2	11	85	0	0	0	237	0	0	0	0	0
	APPROACH %	0%	74%	26%	42%	58%	0%	2%	11%	87%	0%	0%	0%						
	APP/DEPART	82	/	63	57	/	118	98	/	56	0	/	0	0					
	BEGIN PEAK HR		5:00 PM																
	VOLUMES	0	19	9	10	22	0	0	4	51	0	0	0	115					
	APPROACH %	0%	68%	32%	31%	69%	0%	0%	7%	93%	0%	0%	0%						
	PEAK HR FACTOR		0.636			0.800			0.568			0.000		0.753					
	APP/DEPART	28	/	19	32	/	73	55	/	23	0	/	0	0					

Lenwood

NORTH SIDE

SR-58 EB Ramps WEST SIDE EAST SIDE **SR-58 EB Ramps**

SOUTH SIDE

Lenwood

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

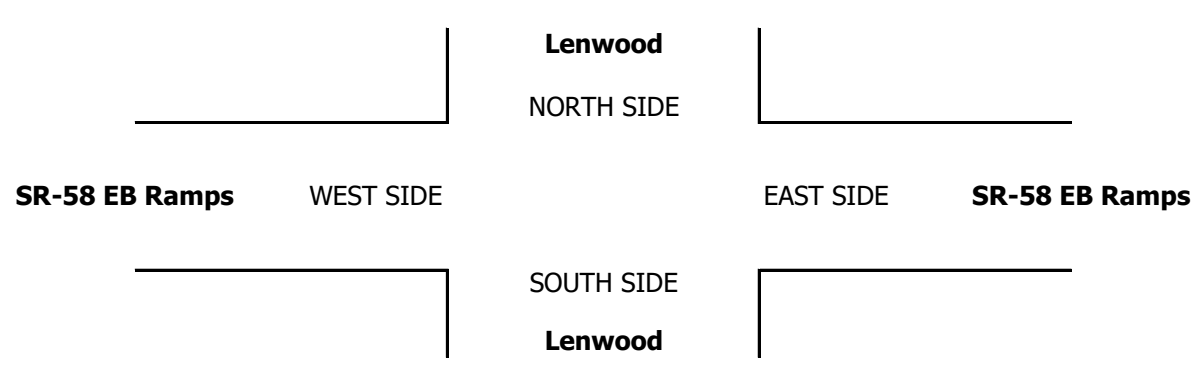
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	2
	EAST & WEST:	SR-58 EB Ramps	CONTROL:	STOP ALL

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 EB Ramps			WESTBOUND SR-58 EB Ramps				U-TURNS				
LANES:	NL X	NT 1	NR 0	SL 1	ST 1	SR X	EL 1	ET 0.5	ER 0.5	WL X	WT X	WR X	TOTAL	NB	SB	EB	WB	TTL
7:00 AM	0	4	3	3	1	0	0	0	1	0	0	0	12	0	0	0	0	0
7:15 AM	0	2	0	4	2	0	1	1	0	0	0	0	10	0	0	0	0	0
7:30 AM	0	4	0	1	2	0	0	0	0	0	0	0	7	0	0	0	0	0
7:45 AM	0	4	2	5	5	0	0	0	0	0	0	0	16	0	0	0	0	0
8:00 AM	0	4	1	2	5	0	1	0	4	0	0	0	17	0	0	0	0	0
8:15 AM	0	3	0	5	4	0	0	0	0	0	0	0	12	0	0	0	0	0
8:30 AM	0	3	0	2	1	0	0	0	0	0	0	0	6	0	0	0	0	0
8:45 AM	0	3	1	4	1	0	0	0	0	0	0	0	9	0	0	0	0	0
AM VOLUMES	0	27	7	26	21	0	2	1	5	0	0	0	89	0	0	0	0	0
AM APPROACH %	0%	79%	21%	55%	45%	0%	25%	13%	63%	0%	0%	0%						
AM APP/DEPART	34	/	29	47	/	26	8	/	34	0	/	0	0					
AM BEGIN PEAK HR		7:45 AM																
AM VOLUMES	0	14	3	14	15	0	1	0	4	0	0	0	51					
AM APPROACH %	0%	82%	18%	48%	52%	0%	20%	0%	80%	0%	0%	0%						
AM PEAK HR FACTOR		0.708			0.725			0.250			0.000		0.750					
AM APP/DEPART	17	/	15	29	/	19	5	/	17	0	/	0	0					
4:00 PM	0	4	2	1	4	0	1	0	2	0	0	0	14	0	0	0	0	0
4:15 PM	0	5	1	3	3	0	1	0	3	0	0	0	16	0	0	0	0	0
4:30 PM	0	8	3	2	1	0	0	0	2	0	0	0	16	0	0	0	0	0
4:45 PM	0	5	1	2	3	0	0	1	6	0	0	0	18	0	0	0	0	0
5:00 PM	0	2	0	1	6	0	0	0	7	0	0	0	16	0	0	0	0	0
5:15 PM	0	2	3	3	3	0	0	0	4	0	0	0	15	0	0	0	0	0
5:30 PM	0	5	3	1	5	0	0	0	6	0	0	0	20	0	0	0	0	0
5:45 PM	0	1	3	2	8	0	0	1	5	0	0	0	20	0	0	0	0	0
PM VOLUMES	0	32	16	15	33	0	2	2	35	0	0	0	135	0	0	0	0	0
PM APPROACH %	0%	67%	33%	31%	69%	0%	5%	5%	90%	0%	0%	0%						
PM APP/DEPART	48	/	34	48	/	68	39	/	33	0	/	0	0					
PM BEGIN PEAK HR		5:00 PM																
PM VOLUMES	0	10	9	7	22	0	0	1	22	0	0	0	71					
PM APPROACH %	0%	53%	47%	24%	76%	0%	0%	4%	96%	0%	0%	0%						
PM PEAK HR FACTOR		0.594			0.725			0.821			0.000		0.888					
PM APP/DEPART	19	/	10	29	/	44	23	/	17	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

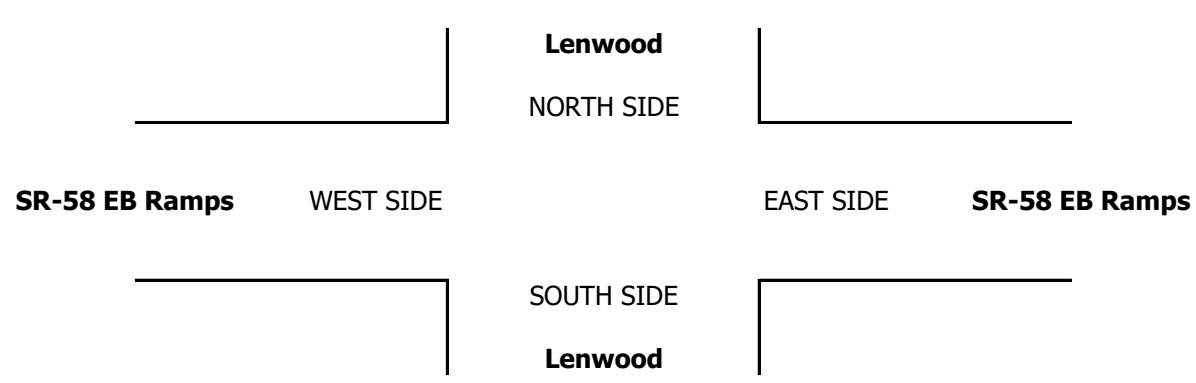
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	2
	EAST & WEST:	SR-58 EB Ramps	CONTROL:	STOP ALL

CLASS 2:	NOTES:
2-AXLE WORK VEHICLES/ TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 EB Ramps			WESTBOUND SR-58 EB Ramps				U-TURNS				
	LANES:	NL X	NT 1	NR 0	SL 1	ST 1	SR X	EL 1	ET 0.5	ER 0.5	WL X	WT X	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	7:45 AM	0	3	0	0	1	0	0	0	0	0	0	0	4	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	8:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	VOLUMES	0	9	0	1	1	0	0	0	0	0	0	0	11	0	0	0	0	0
	APPROACH %	0%	100%	0%	50%	50%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	9	/	9	2	/	1	0	/	1	0	/	0	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	5	0	1	1	0	0	0	0	0	0	0	7					
	APPROACH %	0%	100%	0%	50%	50%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.417			0.500			0.000			0.000		0.438					
	APP/DEPART	5	/	5	2	/	1	0	/	1	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	5:00 PM	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	4	0	0	0	0	1	0	0	0	5	0	0	0	0	0
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%						
	APP/DEPART	0	/	0	4	/	1	1	/	4	0	/	0	0					
	BEGIN PEAK HR		5:00 PM																
	VOLUMES	0	0	0	2	0	0	0	0	1	0	0	0	3					
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.250			0.250			0.000		0.375					
	APP/DEPART	0	/	0	2	/	1	1	/	2	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

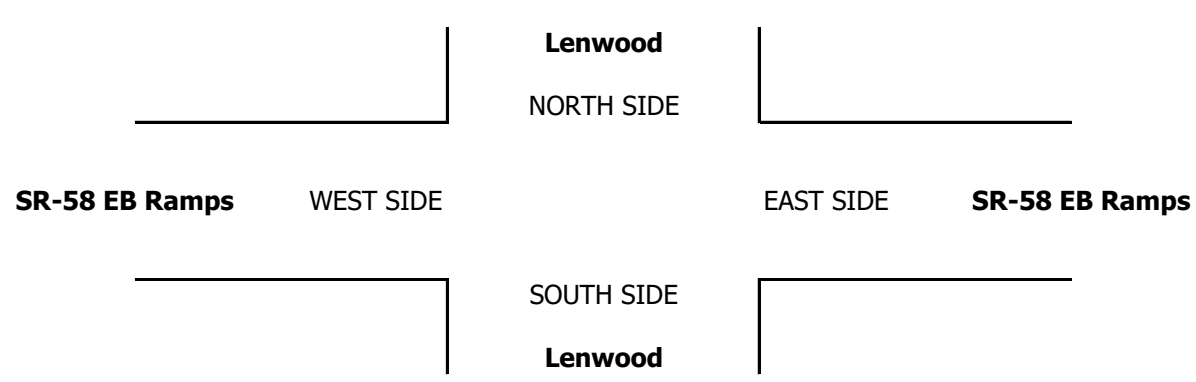
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	2
	EAST & WEST:	SR-58 EB Ramps	CONTROL:	STOP ALL

CLASS 3:	NOTES:
3-AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 EB Ramps			WESTBOUND SR-58 EB Ramps				U-TURNS				
LANES:	NL X	NT 1	NR 0	SL 1	ST 1	SR X	EL 1	ET 0.5	ER 0.5	WL X	WT X	WR X	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
APPROACH %	0%	50%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	2	/	1	0	/	0	0	/	1	0	/	0	0					
BEGIN PEAK HR		7:45 AM																
VOLUMES	0	0	1	0	0	0	0	0	0	0	0	0	1					
APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.250			0.000			0.000			0.000		0.250					
APP/DEPART	1	/	0	0	/	0	0	/	1	0	/	0	0					
PM 4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	1	/	1	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		5:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



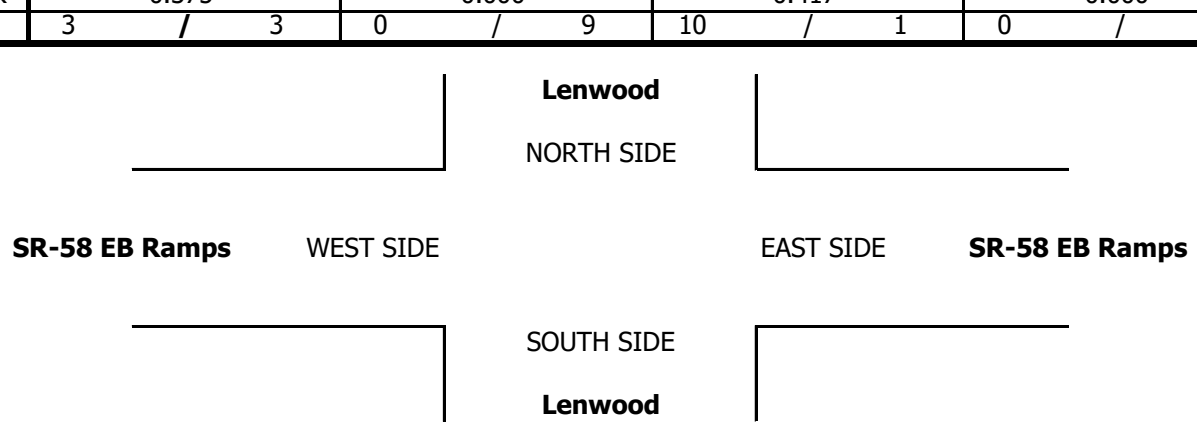
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	2
	EAST & WEST:	SR-58 EB Ramps	CONTROL:	STOP ALL

CLASS 4:	NOTES:
4 OR MORE AXLE TRUCKS	

	NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 EB Ramps			WESTBOUND SR-58 EB Ramps				U-TURNS				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB	TTL
LANES:	X	1	0	1	1	X	1	0.5	0.5	X	X	X						
AM 7:00 AM	0	2	0	1	0	0	0	1	2	0	0	0	6	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
7:30 AM	0	1	0	0	0	0	0	0	2	0	0	0	3	0	0	0	0	0
7:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
8:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
8:30 AM	0	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
8:45 AM	0	3	1	0	0	0	0	0	1	0	0	0	5	0	0	0	0	0
VOLUMES	0	11	1	1	2	0	0	1	6	0	0	0	22	0	0	0	0	0
APPROACH %	0%	92%	8%	33%	67%	0%	0%	14%	86%	0%	0%	0%						
APP/DEPART	12	/	11	3	/	8	7	/	3	0	/	0	0					
BEGIN PEAK HR		7:45 AM																
VOLUMES	0	5	0	0	2	0	0	0	0	0	0	0	7					
APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.313			0.500			0.000			0.000		0.438					
APP/DEPART	5	/	5	2	/	2	0	/	0	0	/	0	0					
PM 4:00 PM	0	1	1	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0
4:15 PM	0	2	0	1	0	0	0	1	2	0	0	0	6	0	0	0	0	0
4:30 PM	0	2	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0
4:45 PM	0	1	0	0	0	0	0	0	4	0	0	0	5	0	0	0	0	0
5:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
5:15 PM	0	2	0	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	1	5	0	0	0	6	0	0	0	0	0
VOLUMES	0	9	1	1	0	0	0	3	16	0	0	0	30	0	0	0	0	0
APPROACH %	0%	90%	10%	100%	0%	0%	0%	16%	84%	0%	0%	0%						
APP/DEPART	10	/	9	1	/	16	19	/	5	0	/	0	0					
BEGIN PEAK HR		5:00 PM																
VOLUMES	0	3	0	0	0	0	0	1	9	0	0	0	13					
APPROACH %	0%	100%	0%	0%	0%	0%	0%	10%	90%	0%	0%	0%						
PEAK HR FACTOR		0.375			0.000			0.417			0.000		0.542					
APP/DEPART	3	/	3	0	/	9	10	/	1	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

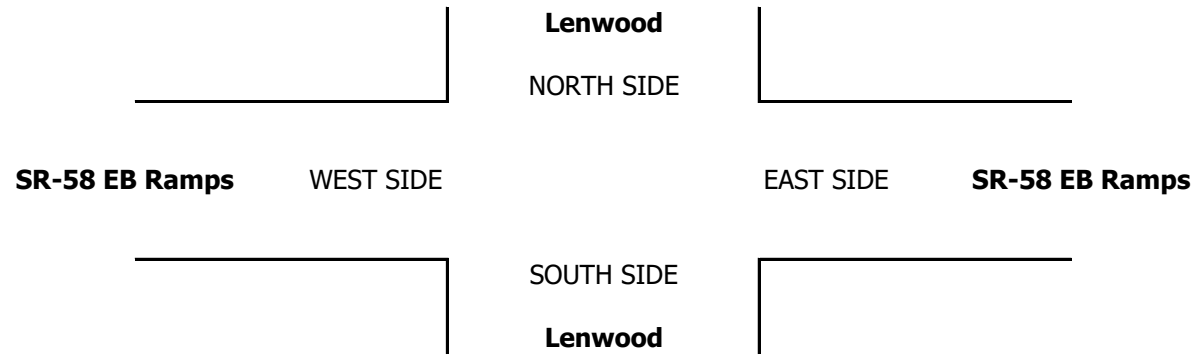
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	2
	EAST & WEST:	SR-58 EB Ramps	CONTROL:	STOP ALL

CLASS 5:	NOTES:
RV	

AM		▲ N	
PM			
MD	◄ W		E ►
OTHER		S ▼	
OTHER			

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 EB Ramps			WESTBOUND SR-58 EB Ramps				U-TURNS				
	LANES:	NL X	NT 1	NR 0	SL 1	ST 1	SR X	EL 1	ET 0.5	ER 0.5	WL X	WT X	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		5:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

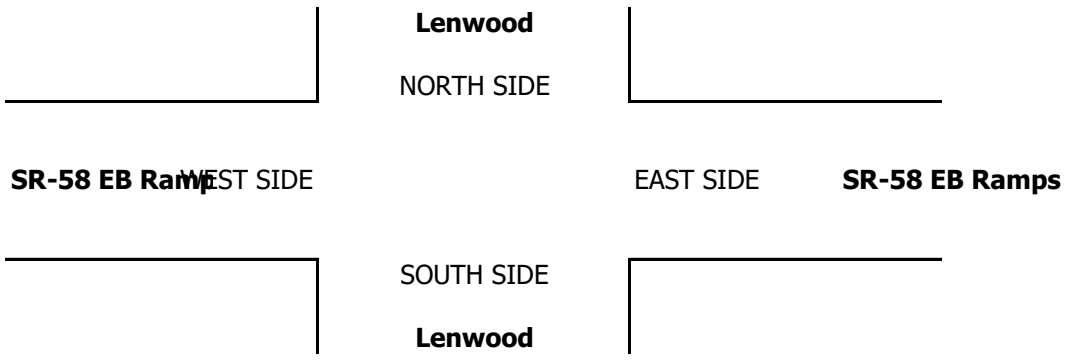
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	2
	EAST & WEST:	SR-58 EB Ramps	CONTROL:	STOP ALL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER

▲ N S ▼ ◄ W E ►

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND SR-58 EB Ramps			WESTBOUND SR-58 EB Ramps				U-TURNS				
	LANES:	NL X	NT 1	NR 0	SL 1	ST 1	SR X	EL 1	ET 0.5	ER 0.5	WL X	WT X	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	VOLUMES	0	1	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%						
	APP/DEPART	1	/	1	0	/	1	1	/	0	0	/	0	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	1	0	0	0	0	0	0	0	0	0	0	1					
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.250			0.000			0.000			0.000		0.250					
	APP/DEPART	1	/	1	0	/	0	0	/	0	0	/	0	0					
PM	4:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	1	/	0	0	/	0	0	/	1	0	/	0	0					
	BEGIN PEAK HR		5:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Thu, May 11, 23

LOCATION: Barstow
NORTH & SOUTH: Lenwood
EAST & WEST: Community

PROJECT #: SC4025
LOCATION #: 3
CONTROL: STOP E/W

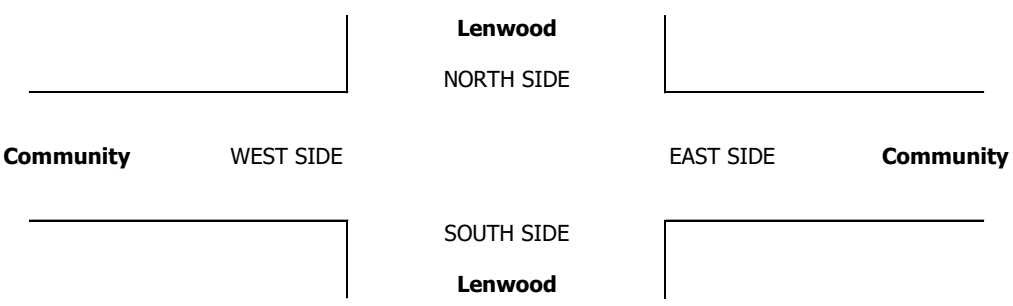
NOTES:

AM
PM
MD
OTHER
OTHER

▲ N
◄ W
E ►
S ▼

☑ Add U-Turns to Left Turns

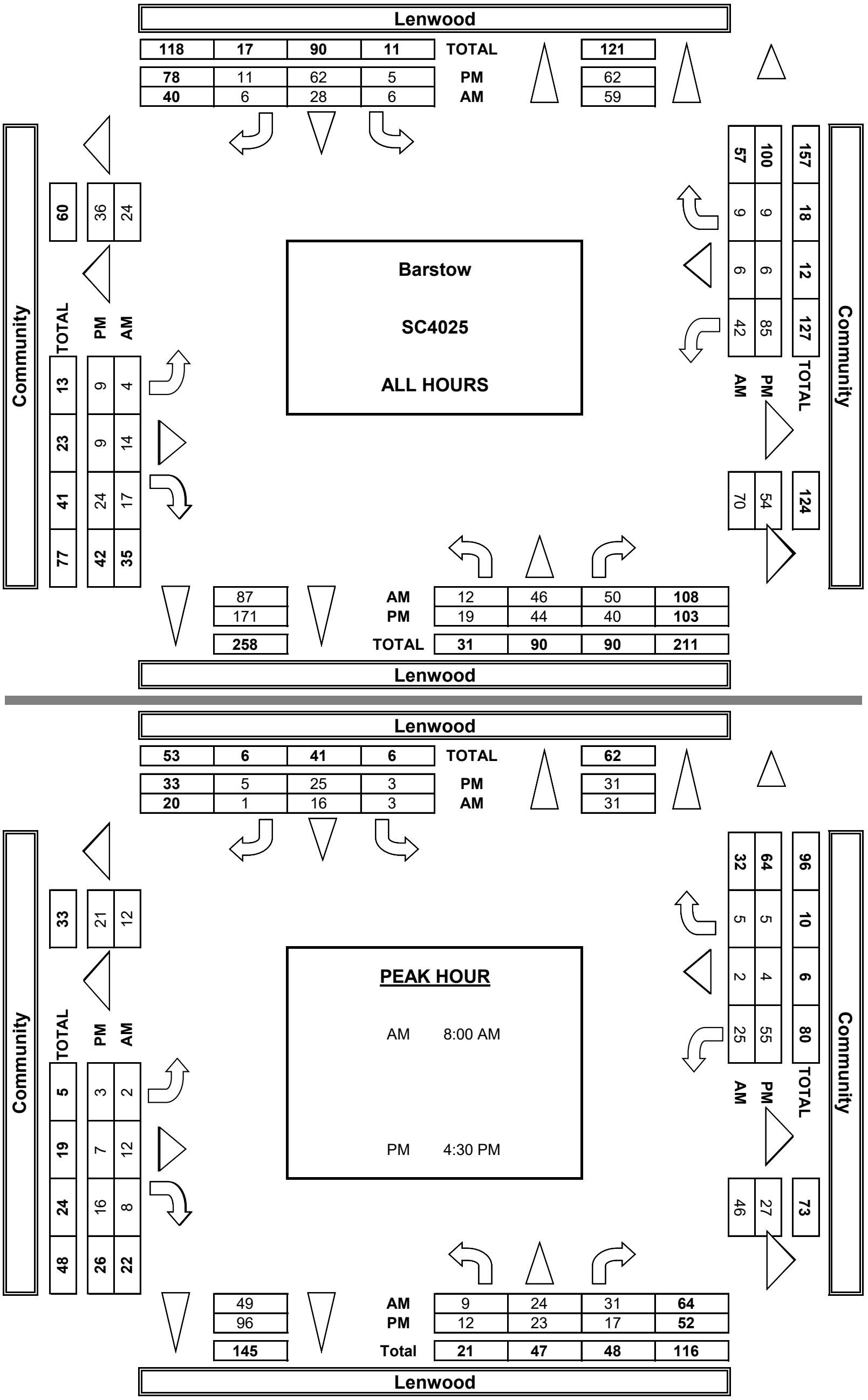
	NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Community			WESTBOUND Community				U-TURNS				
LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
7:00 AM	0	8	6	1	2	1	1	0	3	5	1	2	30	0	0	0	0	0
7:15 AM	1	2	7	0	2	1	0	1	3	3	0	0	20	0	0	0	0	0
7:30 AM	1	7	3	1	3	0	0	0	2	4	2	0	23	0	0	0	0	0
7:45 AM	1	5	3	1	5	3	1	1	1	5	1	2	29	0	0	0	0	0
8:00 AM	1	4	6	2	8	1	0	5	0	6	1	1	35	0	0	0	0	0
8:15 AM	3	6	12	0	4	0	1	5	2	8	0	1	42	0	0	0	0	0
8:30 AM	3	8	8	0	1	0	1	1	3	3	1	1	30	0	0	0	0	0
8:45 AM	2	6	5	1	3	0	0	1	3	8	0	2	31	0	0	0	0	0
AM VOLUMES	12	46	50	6	28	6	4	14	17	42	6	9	240	0	0	0	0	0
AM APPROACH %	11%	43%	46%	15%	70%	15%	11%	40%	49%	74%	11%	16%						
AM APP/DEPART	108	/	59	40	/	87	35	/	70	57	/	24	0					
AM BEGIN PEAK HR		8:00 AM																
AM VOLUMES	9	24	31	3	16	1	2	12	8	25	2	5	138					
AM APPROACH %	14%	38%	48%	15%	80%	5%	9%	55%	36%	78%	6%	16%						
AM PEAK HR FACTOR		0.762			0.455			0.688			0.800		0.821					
AM APP/DEPART	64	/	31	20	/	49	22	/	46	32	/	12	0					
4:00 PM	0	7	3	1	4	1	2	1	3	5	1	2	30	0	0	0	0	0
4:15 PM	4	7	9	0	8	1	0	0	2	12	0	1	44	0	0	0	0	0
4:30 PM	4	11	3	0	2	1	3	3	1	13	1	0	42	0	0	0	0	0
4:45 PM	3	5	3	1	7	0	0	4	5	16	1	2	47	0	0	0	0	0
5:00 PM	2	3	5	1	10	3	0	0	4	11	0	0	39	0	0	0	0	0
5:15 PM	3	4	6	1	6	1	0	0	6	15	2	3	47	0	0	0	0	0
5:30 PM	1	6	4	0	11	2	2	0	2	5	1	0	34	0	0	0	0	0
5:45 PM	2	1	7	1	14	2	2	1	1	8	0	1	40	0	0	0	0	0
PM VOLUMES	19	44	40	5	62	11	9	9	24	85	6	9	323	0	0	0	0	0
PM APPROACH %	18%	43%	39%	6%	79%	14%	21%	21%	57%	85%	6%	9%						
PM APP/DEPART	103	/	62	78	/	171	42	/	54	100	/	36	0					
PM BEGIN PEAK HR		4:30 PM																
PM VOLUMES	12	23	17	3	25	5	3	7	16	55	4	5	175					
PM APPROACH %	23%	44%	33%	9%	76%	15%	12%	27%	62%	86%	6%	8%						
PM PEAK HR FACTOR		0.722			0.589			0.722			0.800		0.931					
PM APP/DEPART	52	/	31	33	/	96	26	/	27	64	/	21	0					



		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS



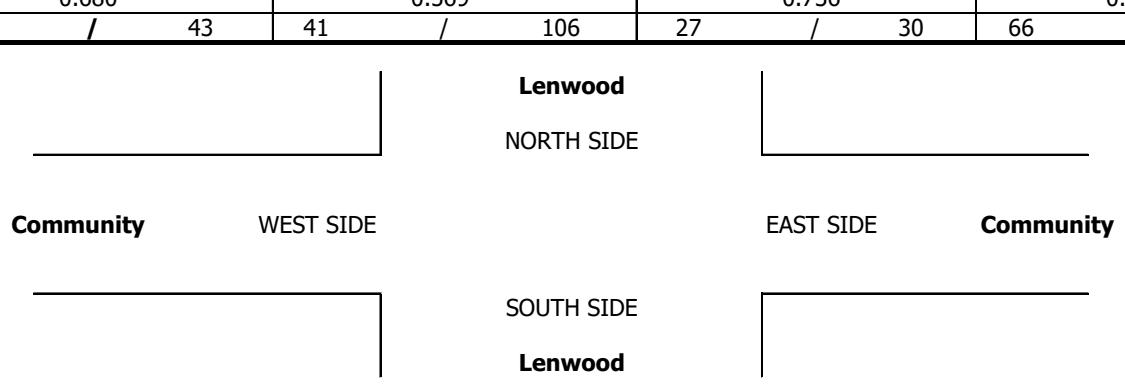
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	3
	EAST & WEST:	Community	CONTROL:	STOP E/W

	NOTES:									AM		▲ N	
PCE Adjusted	Class	1	2	3	4	5	6			PM			
	Factor	1	1.5	2	3	2	2			MD	◄ W		E ►
										OTHER		S ▼	
										OTHER			

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Community			WESTBOUND Community				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	14	9	1	6	1	1	0	4	7	1	2	45					0
	7:15 AM	1	2	9	0	4	1	0	1	4	7	0	0	29					0
	7:30 AM	1	10	3	1	7	0	0	0	3	5	3	0	32					0
	7:45 AM	1	6	3	1	6	5	1	2	1	7	1	3	36					0
	8:00 AM	1	4	9	2	8	3	0	6	0	8	2	1	43					0
	8:15 AM	3	9	13	0	4	0	1	6	4	8	0	1	49					0
	8:30 AM	5	19	8	0	1	0	2	1	3	4	1	3	47					0
	8:45 AM	2	11	6	1	8	0	0	1	3	8	0	4	44					0
	VOLUMES	14	74	60	6	44	10	5	17	22	53	7	14	324	0	0	0	0	0
	APPROACH %	9%	50%	40%	10%	73%	17%	11%	39%	49%	72%	10%	18%						
	APP/DEPART	148	/	93	60	/	118	44	/	83	73	/	31	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	11	43	36	3	21	3	3	14	10	28	3	9	182					
	APPROACH %	12%	48%	40%	11%	78%	11%	11%	52%	37%	71%	6%	23%						
	PEAK HR FACTOR		0.695			0.519			0.614			0.813		0.929					
	APP/DEPART	89	/	55	27	/	59	27	/	53	39	/	17	0					
PM	4:00 PM	0	10	3	1	8	1	4	1	3	5	1	2	39					0
	4:15 PM	4	12	9	0	12	1	0	0	2	12	0	1	53					0
	4:30 PM	5	15	5	0	2	1	3	3	2	14	1	0	50					0
	4:45 PM	3	7	4	1	11	0	0	4	5	17	1	2	55					0
	5:00 PM	2	5	5	1	14	3	0	0	4	11	0	0	45					0
	5:15 PM	3	8	7	1	6	1	0	0	6	15	2	3	52					0
	5:30 PM	1	6	5	0	19	2	2	0	2	6	1	0	43					0
	5:45 PM	2	1	7	1	25	2	2	1	1	8	0	1	51					0
	VOLUMES	20	64	44	5	97	11	11	9	25	87	6	9	387	0	0	0	0	0
	APPROACH %	16%	50%	34%	4%	86%	10%	25%	20%	55%	85%	6%	9%						
	APP/DEPART	128	/	84	113	/	208	45	/	58	102	/	37	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	13	35	20	3	33	5	3	7	17	57	4	5	201					
	APPROACH %	19%	51%	29%	7%	80%	12%	11%	26%	62%	86%	6%	8%						
	PEAK HR FACTOR		0.680			0.569			0.736			0.819		0.922					
	APP/DEPART	68	/	43	41	/	106	27	/	30	66	/	22	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

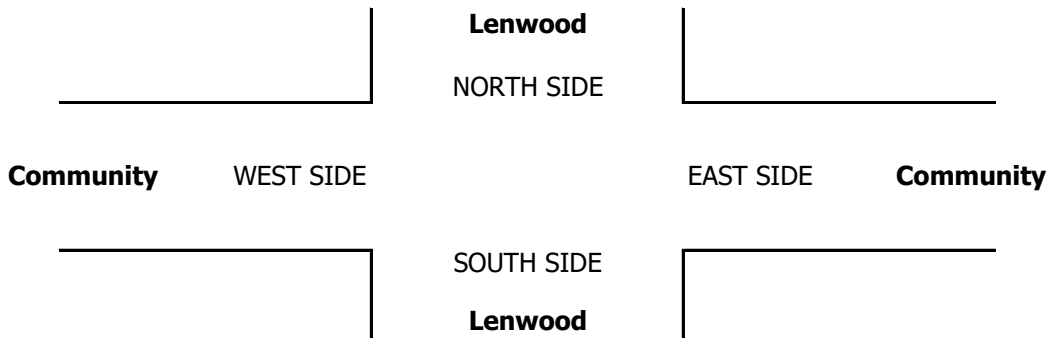
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	3
	EAST & WEST:	Community	CONTROL:	STOP E/W

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Community			WESTBOUND Community				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	4	4	1	0	1	1	0	1	3	1	2	18	0	0	0	0	0
	7:15 AM	1	2	6	0	1	1	0	1	2	1	0	0	15	0	0	0	0	0
	7:30 AM	1	4	3	1	1	0	0	0	1	3	1	0	15	0	0	0	0	0
	7:45 AM	1	3	3	1	4	2	1	0	1	4	1	1	22	0	0	0	0	0
	8:00 AM	1	4	4	2	8	0	0	4	0	4	0	1	28	0	0	0	0	0
	8:15 AM	3	3	11	0	4	0	1	3	1	8	0	1	35	0	0	0	0	0
	8:30 AM	2	2	8	0	1	0	0	1	3	2	1	0	20	0	0	0	0	0
	8:45 AM	2	3	3	1	0	0	0	1	3	8	0	1	22	0	0	0	0	0
	VOLUMES	11	25	42	6	19	4	3	10	12	33	4	6	175	0	0	0	0	0
	APPROACH %	14%	32%	54%	21%	66%	14%	12%	40%	48%	77%	9%	14%						
	APP/DEPART	78	/	34	29	/	64	25	/	58	43	/	19	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	8	12	26	3	13	0	1	9	7	22	1	3	105					
	APPROACH %	17%	26%	57%	19%	81%	0%	6%	53%	41%	85%	4%	12%						
	PEAK HR FACTOR		0.676			0.400			0.850			0.722		0.750					
	APP/DEPART	46	/	16	16	/	42	17	/	38	26	/	9	0					
PM	4:00 PM	0	5	3	1	2	1	1	1	3	5	1	2	25	0	0	0	0	0
	4:15 PM	4	4	9	0	6	1	0	0	2	12	0	1	39	0	0	0	0	0
	4:30 PM	3	9	2	0	2	1	3	3	0	12	1	0	36	0	0	0	0	0
	4:45 PM	3	4	2	1	5	0	0	4	5	15	1	2	42	0	0	0	0	0
	5:00 PM	2	2	5	1	8	3	0	0	4	11	0	0	36	0	0	0	0	0
	5:15 PM	3	2	5	1	6	1	0	0	6	15	2	3	44	0	0	0	0	0
	5:30 PM	1	6	3	0	7	2	2	0	2	4	1	0	28	0	0	0	0	0
	5:45 PM	2	1	7	1	8	2	2	1	1	8	0	1	34	0	0	0	0	0
	VOLUMES	18	33	36	5	44	11	8	9	23	82	6	9	284	0	0	0	0	0
	APPROACH %	21%	38%	41%	8%	73%	18%	20%	23%	58%	85%	6%	9%						
	APP/DEPART	87	/	50	60	/	149	40	/	50	97	/	35	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	11	17	14	3	21	5	3	7	15	53	4	5	158					
	APPROACH %	26%	40%	33%	10%	72%	17%	12%	28%	60%	85%	6%	8%						
	PEAK HR FACTOR		0.750			0.604			0.694			0.775		0.898					
	APP/DEPART	42	/	25	29	/	89	25	/	24	62	/	20	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

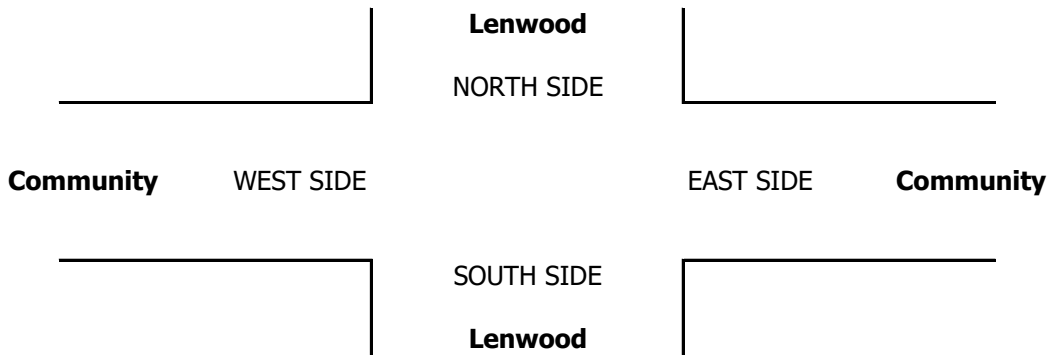
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	3
	EAST & WEST:	Community	CONTROL:	STOP E/W

CLASS 2:	NOTES:
2-AXLE WORK VEHICLES/ TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Community			WESTBOUND Community				U-TURNS				
LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	0	1	0	0	0	0	0	0	2	1	0	0	4	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
7:30 AM	0	2	0	0	0	0	0	0	0	1	1	0	4	0	0	0	0	0
7:45 AM	0	2	0	0	1	0	0	0	0	0	0	1	4	0	0	0	0	0
8:00 AM	0	0	1	0	0	0	0	0	0	1	1	0	3	0	0	0	0	0
8:15 AM	0	2	0	0	0	0	0	2	0	0	0	0	4	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	1	2	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
VOLUMES	0	8	3	0	1	0	0	2	3	3	2	1	23	0	0	0	0	0
APPROACH %	0%	73%	27%	0%	100%	0%	0%	40%	60%	50%	33%	17%						
APP/DEPART	11	/	9	1	/	7	5	/	5	6	/	2	0					
BEGIN PEAK HR		8:00 AM																
VOLUMES	0	3	3	0	0	0	0	2	0	1	1	0	10					
APPROACH %	0%	50%	50%	0%	0%	0%	0%	100%	0%	50%	50%	0%						
PEAK HR FACTOR		0.500			0.000			0.250			0.250		0.625					
APP/DEPART	6	/	3	0	/	1	2	/	5	2	/	1	0					
PM 4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0
4:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
5:30 PM	0	0	1	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0
5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
VOLUMES	0	0	3	0	1	0	0	0	1	2	0	0	7	0	0	0	0	0
APPROACH %	0%	0%	100%	0%	100%	0%	0%	0%	100%	100%	0%	0%						
APP/DEPART	3	/	0	1	/	4	1	/	3	2	/	0	0					
BEGIN PEAK HR		4:30 PM																
VOLUMES	0	0	2	0	0	0	0	0	1	1	0	0	4					
APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	100%	100%	0%	0%						
PEAK HR FACTOR		0.500			0.000			0.250			0.250		0.500					
APP/DEPART	2	/	0	0	/	2	1	/	2	1	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

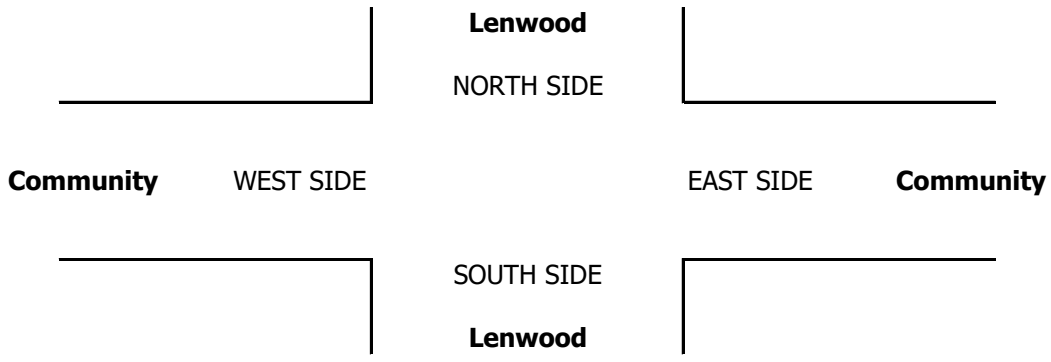
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	3
	EAST & WEST:	Community	CONTROL:	STOP E/W

CLASS 3:	NOTES:
3-AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Community			WESTBOUND Community				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	1	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	1	0	0	0	0	1	0	0	1	0	0	3	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	0%	0%	100%	0%	0%	100%	0%	0%						
	APP/DEPART	1	/	2	0	/	1	1	/	0	1	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	0	0	0	1	0	0	0	0	0	1					
	APPROACH %	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.250			0.000		0.250					
	APP/DEPART	0	/	1	0	/	0	1	/	0	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	1	/	1	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



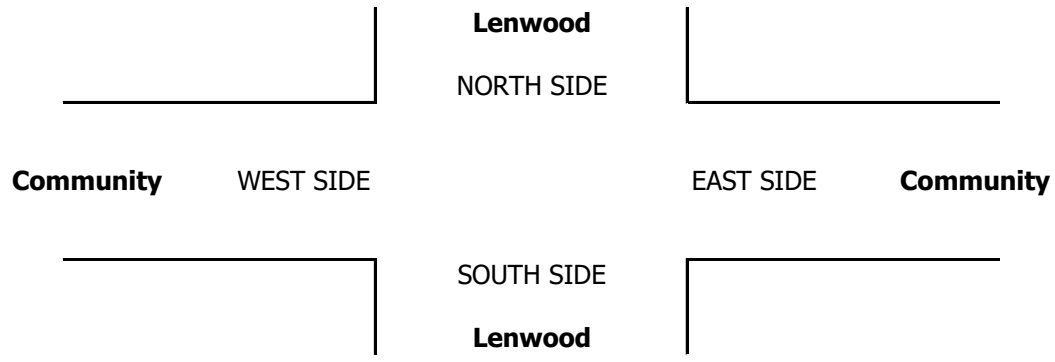
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	3
	EAST & WEST:	Community	CONTROL:	STOP E/W

CLASS 4:	NOTES:
4 OR MORE AXLE TRUCKS	

															U-TURNS				
		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Community			WESTBOUND Community								
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	2	1	0	2	0	0	0	0	0	0	0	5	0	0	0	0	0
	7:15 AM	0	0	1	0	1	0	0	0	0	2	0	0	4	0	0	0	0	0
	7:30 AM	0	1	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0
	7:45 AM	0	0	0	0	0	1	0	0	0	1	0	0	2	0	0	0	0	0
	8:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0
	8:15 AM	0	1	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0
	8:30 AM	1	5	0	0	0	0	0	0	0	0	0	1	7	0	0	0	0	0
	8:45 AM	0	2	0	0	2	0	0	0	0	0	0	1	5	0	0	0	0	0
	VOLUMES	1	11	3	0	7	2	0	0	1	3	0	2	30	0	0	0	0	0
	APPROACH %	7%	73%	20%	0%	78%	22%	0%	0%	100%	60%	0%	40%						
	APP/DEPART	15	/	13	9	/	11	1	/	3	5	/	3	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	1	8	1	0	2	1	0	0	1	0	0	2	16					
	APPROACH %	10%	80%	10%	0%	67%	33%	0%	0%	100%	0%	0%	100%						
	PEAK HR FACTOR		0.417			0.375			0.250			0.500		0.571					
	APP/DEPART	10	/	10	3	/	3	1	/	1	2	/	2	0					
PM	4:00 PM	0	1	0	0	2	0	1	0	0	0	0	0	4	0	0	0	0	0
	4:15 PM	0	2	0	0	2	0	0	0	0	0	0	0	4	0	0	0	0	0
	4:30 PM	0	2	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
	4:45 PM	0	1	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0
	5:00 PM	0	1	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0
	5:15 PM	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	5:30 PM	0	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0	0	0
	5:45 PM	0	0	0	0	5	0	0	0	0	0	0	0	5	0	0	0	0	0
	VOLUMES	0	9	1	0	17	0	1	0	0	0	0	0	28	0	0	0	0	0
	APPROACH %	0%	90%	10%	0%	100%	0%	100%	0%	0%	0%	0%	0%						
	APP/DEPART	10	/	10	17	/	17	1	/	1	0	/	0	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	0	6	1	0	4	0	0	0	0	0	0	0	11					
	APPROACH %	0%	86%	14%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.583			0.500			0.000			0.000		0.917					
	APP/DEPART	7	/	6	4	/	4	0	/	1	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

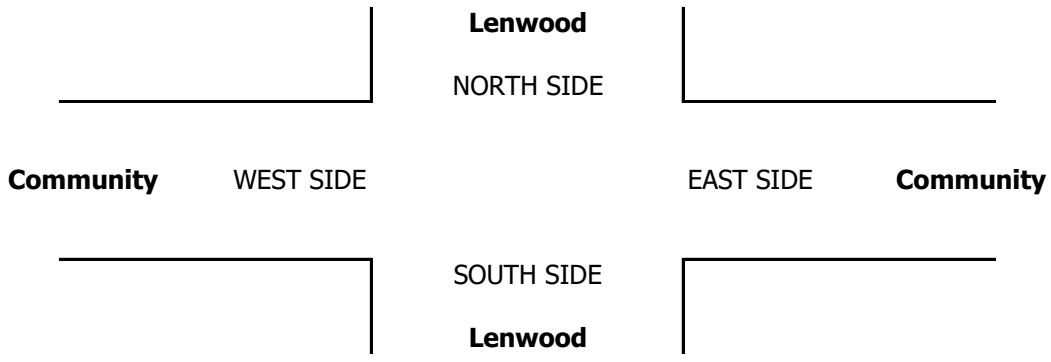
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	3
	EAST & WEST:	Community	CONTROL:	STOP E/W

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Community			WESTBOUND Community				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

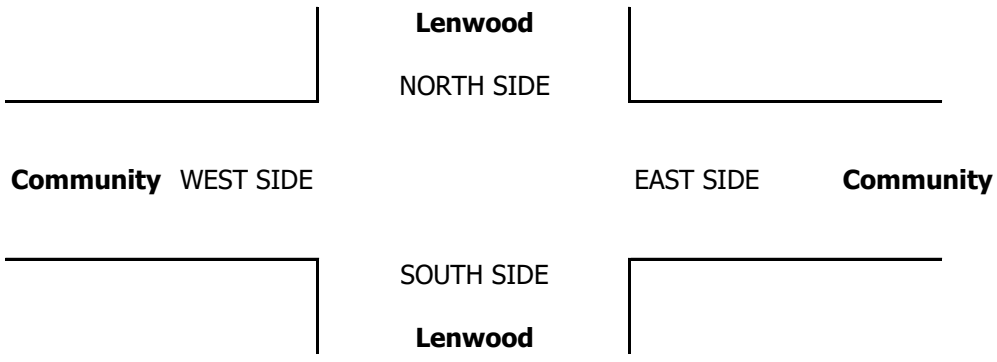
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	3
	EAST & WEST:	Community	CONTROL:	STOP E/W

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER

▲ N S ▼ ◄ W E ►

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Community			WESTBOUND Community				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	0	0
	8:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:30 AM	0	1	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0
	8:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
	VOLUMES	0	1	2	0	1	0	0	2	1	2	0	0	9	0	0	0	0	0
	APPROACH %	0%	33%	67%	0%	100%	0%	0%	67%	33%	100%	0%	0%						
	APP/DEPART	3	/	1	1	/	4	3	/	4	2	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	1	1	0	1	0	0	1	0	2	0	0	6					
	APPROACH %	0%	50%	50%	0%	100%	0%	0%	100%	0%	100%	0%	0%						
	PEAK HR FACTOR		0.500			0.250			0.250			0.500		0.750					
	APP/DEPART	2	/	1	1	/	3	1	/	2	2	/	0	0					
PM	4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	1	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	0
	APPROACH %	50%	50%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%						
	APP/DEPART	2	/	1	0	/	1	0	/	0	1	/	1	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	1	0	0	0	0	0	0	0	0	1	0	0	2					
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%						
	PEAK HR FACTOR		0.250			0.000			0.000			0.250		0.500					
	APP/DEPART	1	/	0	0	/	1	0	/	0	1	/	1	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Thu, May 11, 23

LOCATION: Barstow
NORTH & SOUTH: Lenwood
EAST & WEST: Agate

PROJECT #: SC4025
LOCATION #: 4
CONTROL: STOP E/W

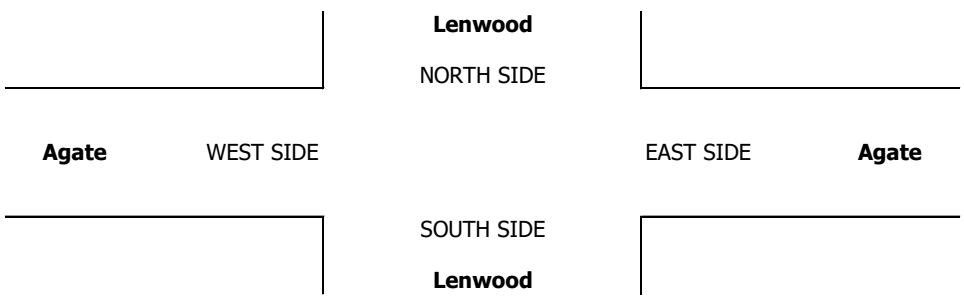
NOTES:

AM
PM
MD
OTHER
OTHER

▲ N
◄ W
E ►
S ▼

☑ Add U-Turns to Left Turns

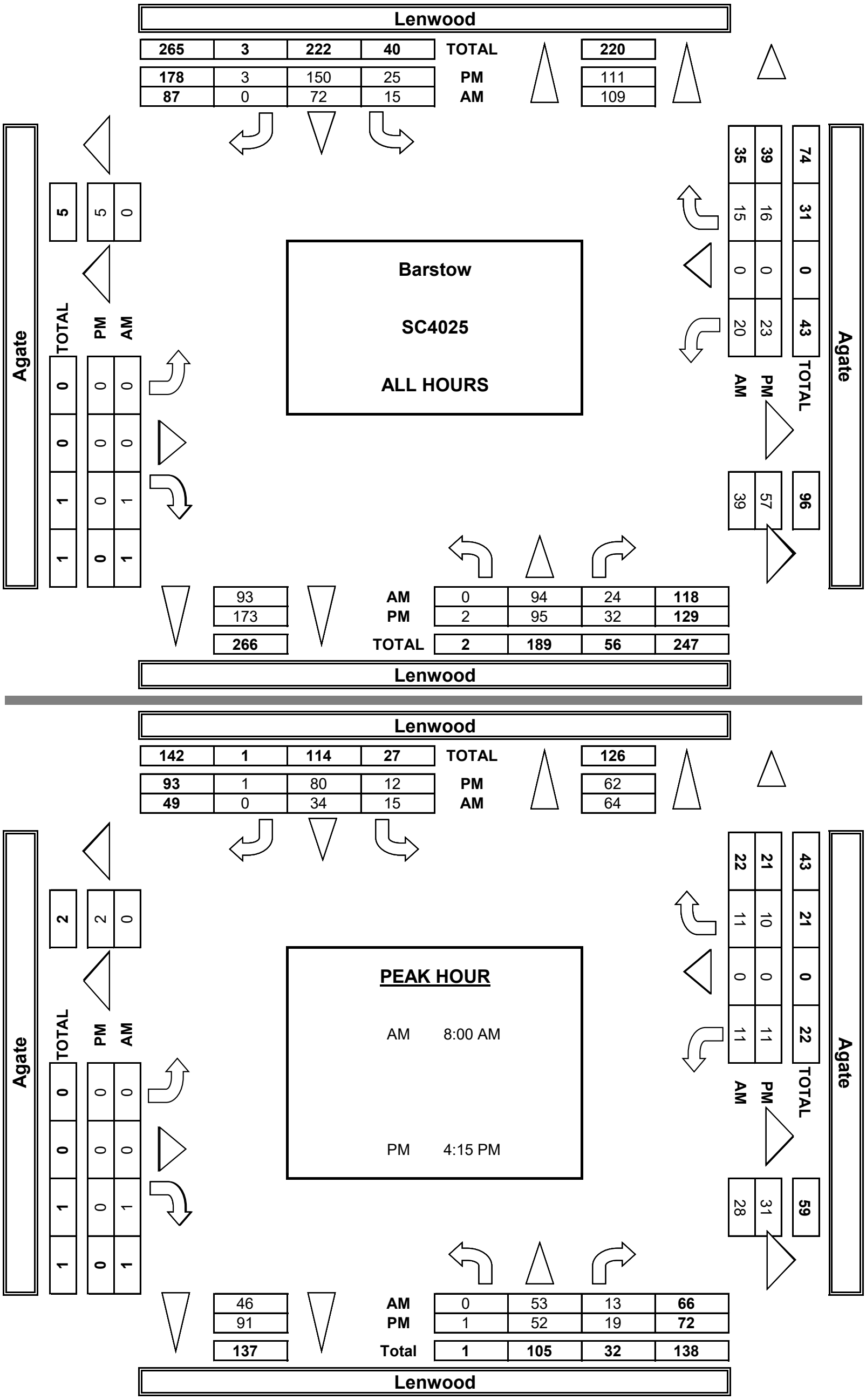
		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Agate			WESTBOUND Agate				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 0	ER 0	WL 0	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	0	13	1	0	8	0	0	0	0	2	0	2	26	0	0	0	0	0
	7:15 AM	0	9	2	0	9	0	0	0	0	4	0	0	24	0	0	0	0	0
	7:30 AM	0	11	4	0	10	0	0	0	0	0	0	1	26	0	0	0	0	0
	7:45 AM	0	8	4	0	11	0	0	0	0	3	0	1	27	0	0	0	0	0
	8:00 AM	0	8	3	3	10	0	0	0	0	5	0	3	32	0	0	0	0	0
	8:15 AM	0	20	6	7	8	0	0	0	1	2	0	3	47	0	0	0	0	0
	8:30 AM	0	12	2	1	7	0	0	0	0	4	0	4	30	0	0	0	0	0
	8:45 AM	0	13	2	4	9	0	0	0	0	0	0	1	29	0	0	0	0	0
	VOLUMES	0	94	24	15	72	0	0	0	1	20	0	15	241	0	0	0	0	0
	APPROACH %	0%	80%	20%	17%	83%	0%	0%	0%	100%	57%	0%	43%						
	APP/DEPART	118	/	109	87	/	93	1	/	39	35	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	53	13	15	34	0	0	0	1	11	0	11	138					
	APPROACH %	0%	80%	20%	31%	69%	0%	0%	0%	100%	50%	0%	50%						
	PEAK HR FACTOR		0.635			0.817			0.250			0.688		0.734					
	APP/DEPART	66	/	64	49	/	46	1	/	28	22	/	0	0					
PM	4:00 PM	0	12	2	3	13	1	0	0	0	2	0	2	35	0	0	0	0	0
	4:15 PM	0	18	4	3	21	1	0	0	0	3	0	4	54	0	0	0	0	0
	4:30 PM	0	15	4	5	8	0	0	0	0	2	0	2	36	0	0	0	0	0
	4:45 PM	0	9	5	2	26	0	0	0	0	2	0	3	47	0	0	0	0	0
	5:00 PM	1	10	6	2	25	0	0	0	0	4	0	1	49	0	0	0	0	0
	5:15 PM	0	9	7	4	25	0	0	0	0	4	0	2	51	0	0	0	0	0
	5:30 PM	0	12	4	5	11	1	0	0	0	3	0	1	37	0	0	0	0	0
	5:45 PM	1	10	0	1	21	0	0	0	0	3	0	1	37	0	0	0	0	0
	VOLUMES	2	95	32	25	150	3	0	0	0	23	0	16	346	0	0	0	0	0
	APPROACH %	2%	74%	25%	14%	84%	2%	0%	0%	0%	59%	0%	41%						
	APP/DEPART	129	/	111	178	/	173	0	/	57	39	/	5	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	1	52	19	12	80	1	0	0	0	11	0	10	186					
	APPROACH %	1%	72%	26%	13%	86%	1%	0%	0%	0%	52%	0%	48%						
	PEAK HR FACTOR		0.818			0.830			0.000			0.750		0.861					
	APP/DEPART	72	/	62	93	/	91	0	/	31	21	/	2	0					



		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	4
	EAST & WEST:	Agate	CONTROL:	STOP E/W

PCE Adjusted	NOTES:									AM / PM / MD / OTHER / OTHER
	Class	1	2	3	4	5	6			
	Factor	1	1.5	2	3	2	2			

▲ N ◄ W E ► S ▼

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Agate			WESTBOUND Agate				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 0	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	21	1	0	14	0	0	0	0	2	0	3	41					0
	7:15 AM	0	11	3	0	16	0	0	0	0	5	0	0	35					0
	7:30 AM	0	14	4	0	16	0	0	0	0	0	0	1	35					0
	7:45 AM	0	9	4	0	14	0	0	0	0	3	0	2	31					0
	8:00 AM	0	10	4	3	11	0	0	0	0	5	0	3	36					0
	8:15 AM	0	25	8	7	11	0	0	0	1	3	0	3	58					0
	8:30 AM	0	25	2	1	8	0	0	0	0	4	0	4	44					0
	8:45 AM	0	19	2	4	12	0	0	0	0	0	0	1	38					0
	VOLUMES	0	132	28	15	100	0	0	0	1	22	0	17	315	0	0	0	0	0
	APPROACH %	0%	83%	18%	13%	87%	0%	0%	0%	100%	57%	0%	43%						
	APP/DEPART	160	/	149	115	/	123	1	/	43	39	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	78	16	15	42	0	0	0	1	12	0	11	175					
	APPROACH %	0%	83%	17%	27%	73%	0%	0%	0%	100%	52%	0%	48%						
	PEAK HR FACTOR		0.712			0.807			0.250			0.719		0.759					
	APP/DEPART	94	/	89	57	/	55	1	/	31	23	/	0	0					
PM	4:00 PM	0	17	2	3	17	1	0	0	0	2	0	2	44					0
	4:15 PM	0	23	5	3	25	1	0	0	0	3	0	4	64					0
	4:30 PM	0	22	4	6	8	0	0	0	0	3	0	2	45					0
	4:45 PM	0	12	5	3	30	0	0	0	0	2	0	3	55					0
	5:00 PM	1	12	6	2	29	0	0	0	0	4	0	1	55					0
	5:15 PM	0	14	8	4	25	0	0	0	0	5	0	2	58					0
	5:30 PM	0	13	4	6	19	1	0	0	0	3	0	1	46					0
	5:45 PM	1	10	0	1	32	0	0	0	0	3	0	1	48					0
	VOLUMES	2	122	34	27	185	3	0	0	0	25	0	16	413	0	0	0	0	0
	APPROACH %	1%	77%	22%	13%	86%	1%	0%	0%	0%	61%	0%	39%						
	APP/DEPART	158	/	138	215	/	210	0	/	61	41	/	5	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	1	69	20	14	92	1	0	0	0	12	0	10	218					
	APPROACH %	1%	77%	22%	13%	86%	1%	0%	0%	0%	55%	0%	45%						
	PEAK HR FACTOR		0.799			0.807			0.000			0.786		0.852					
	APP/DEPART	90	/	79	107	/	104	0	/	34	22	/	2	0					

Lenwood

NORTH SIDE

Agate WEST SIDE

EAST SIDE **Agate**

SOUTH SIDE

Lenwood

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	4
	EAST & WEST:	Agate	CONTROL:	STOP E/W

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM
PM
MD
OTHER
OTHER

▲ N
◄ W
E ►
S ▼

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Agate			WESTBOUND Agate				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 0	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	8	1	0	3	0	0	0	0	2	0	1	15	0	0	0	0	0
	7:15 AM	0	8	1	0	5	0	0	0	0	3	0	0	17	0	0	0	0	0
	7:30 AM	0	8	4	0	6	0	0	0	0	0	0	1	19	0	0	0	0	0
	7:45 AM	0	7	4	0	9	0	0	0	0	3	0	0	23	0	0	0	0	0
	8:00 AM	0	7	2	3	9	0	0	0	0	5	0	3	29	0	0	0	0	0
	8:15 AM	0	15	4	7	6	0	0	0	1	1	0	3	37	0	0	0	0	0
	8:30 AM	0	5	2	1	6	0	0	0	0	4	0	4	22	0	0	0	0	0
	8:45 AM	0	8	2	4	7	0	0	0	0	0	0	1	22	0	0	0	0	0
	VOLUMES	0	66	20	15	51	0	0	0	1	18	0	13	184	0	0	0	0	0
	APPROACH %	0%	77%	23%	23%	77%	0%	0%	0%	100%	58%	0%	42%						
	APP/DEPART	86	/	79	66	/	70	1	/	35	31	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	35	10	15	28	0	0	0	1	10	0	11	110					
	APPROACH %	0%	78%	22%	35%	65%	0%	0%	0%	100%	48%	0%	52%						
	PEAK HR FACTOR		0.592			0.827			0.250			0.656		0.743					
	APP/DEPART	45	/	46	43	/	39	1	/	25	21	/	0	0					
PM	4:00 PM	0	9	2	3	11	1	0	0	0	2	0	2	30	0	0	0	0	0
	4:15 PM	0	15	3	3	19	1	0	0	0	3	0	4	48	0	0	0	0	0
	4:30 PM	0	11	4	4	8	0	0	0	0	1	0	2	30	0	0	0	0	0
	4:45 PM	0	7	5	1	24	0	0	0	0	2	0	3	42	0	0	0	0	0
	5:00 PM	1	9	6	2	23	0	0	0	0	4	0	1	46	0	0	0	0	0
	5:15 PM	0	6	6	4	25	0	0	0	0	3	0	2	46	0	0	0	0	0
	5:30 PM	0	11	4	4	7	1	0	0	0	3	0	1	31	0	0	0	0	0
	5:45 PM	1	10	0	1	15	0	0	0	0	3	0	1	31	0	0	0	0	0
	VOLUMES	2	78	30	22	132	3	0	0	0	21	0	16	304	0	0	0	0	0
	APPROACH %	2%	71%	27%	14%	84%	2%	0%	0%	0%	57%	0%	43%						
	APP/DEPART	110	/	94	157	/	153	0	/	52	37	/	5	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	1	42	18	10	74	1	0	0	0	10	0	10	166					
	APPROACH %	2%	69%	30%	12%	87%	1%	0%	0%	0%	50%	0%	50%						
	PEAK HR FACTOR		0.847			0.850			0.000			0.714		0.865					
	APP/DEPART	61	/	52	85	/	84	0	/	28	20	/	2	0					

Lenwood

NORTH SIDE

Agate WEST SIDE

EAST SIDE **Agate**

SOUTH SIDE

Lenwood

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	4
	EAST & WEST:	Agate	CONTROL:	STOP E/W

CLASS 2:	NOTES:
2-AXLE WORK VEHICLES/ TRUCKS	

AM PM MD OTHER OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Agate			WESTBOUND Agate				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 0	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	1	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0
	7:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
	7:30 AM	0	2	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0
	7:45 AM	0	1	0	0	1	0	0	0	0	0	0	1	3	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	2	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0
	8:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:45 AM	0	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
	VOLUMES	0	10	0	0	6	0	0	0	0	0	0	1	17	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%						
	APP/DEPART	10	/	11	6	/	6	0	/	0	1	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	6	0	0	1	0	0	0	0	0	0	0	7					
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.500			0.250			0.000			0.000		0.583					
	APP/DEPART	6	/	6	1	/	1	0	/	0	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	5:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
	VOLUMES	0	3	0	2	1	0	0	0	0	0	0	0	6	0	0	0	0	0
	APPROACH %	0%	100%	0%	67%	33%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	3	/	3	3	/	1	0	/	2	0	/	0	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	1	0	1	0	0	0	0	0	0	0	0	2					
	APPROACH %	0%	100%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.250			0.250			0.000			0.000		0.500					
	APP/DEPART	1	/	1	1	/	0	0	/	1	0	/	0	0					

Lenwood

NORTH SIDE

Agate WEST SIDE EAST SIDE **Agate**

SOUTH SIDE

Lenwood

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

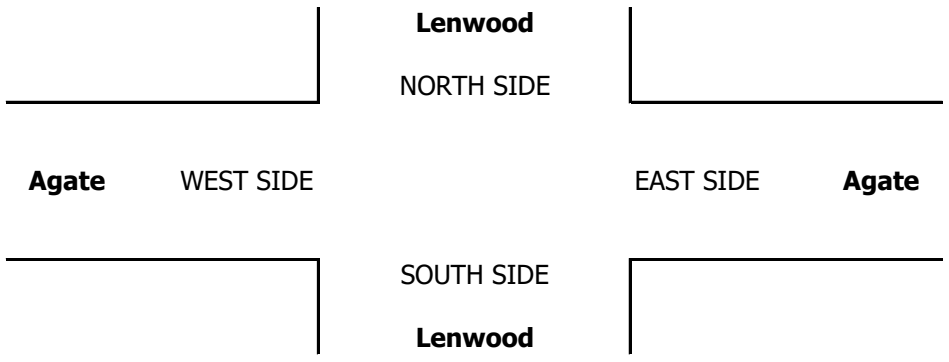
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	4
	EAST & WEST:	Agate	CONTROL:	STOP E/W

CLASS 3:	NOTES:
3-AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Agate			WESTBOUND Agate				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 0	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	1	0	0	0	0	0	0	1	2	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	1	0	0	0	0	0	0	1	2	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%						
	APP/DEPART	0	/	1	1	/	1	0	/	0	1	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	1	/	1	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	1	0	0	0	0	0	0	0	0	0	0	1					
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.250			0.000			0.000			0.000		0.250					
	APP/DEPART	1	/	1	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

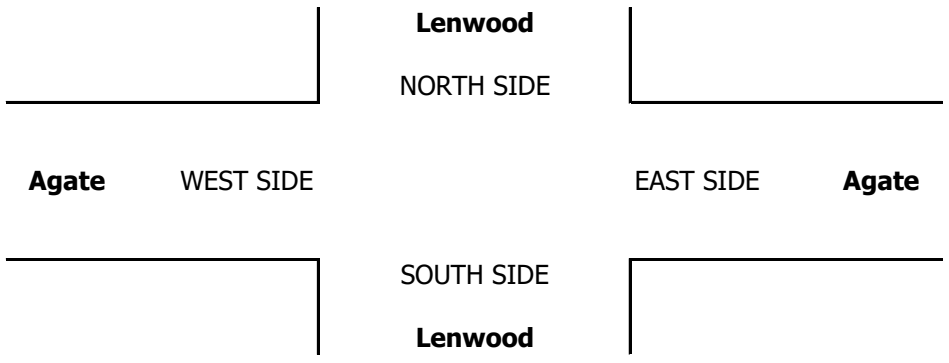
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	4
	EAST & WEST:	Agate	CONTROL:	STOP E/W

CLASS 4:	NOTES:
4 OR MORE AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Agate			WESTBOUND Agate				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 0	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	3	0	0	2	0	0	0	0	0	0	0	5	0	0	0	0	0
	7:15 AM	0	1	0	0	3	0	0	0	0	0	0	0	4	0	0	0	0	0
	7:30 AM	0	1	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0
	7:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0
	8:30 AM	0	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0
	8:45 AM	0	2	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0
	VOLUMES	0	15	0	0	10	0	0	0	0	0	0	0	25	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	15	/	15	10	/	10	0	/	0	0	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	10	0	0	2	0	0	0	0	0	0	0	12					
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.417			0.500			0.000			0.000		0.500					
	APP/DEPART	10	/	10	2	/	2	0	/	0	0	/	0	0					
PM	4:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	4	0	0	0	0	0
	4:15 PM	0	2	0	0	2	0	0	0	0	0	0	0	4	0	0	0	0	0
	4:30 PM	0	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
	4:45 PM	0	1	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0
	5:00 PM	0	1	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0
	5:15 PM	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	5:30 PM	0	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0	0	0
	5:45 PM	0	0	0	0	5	0	0	0	0	0	0	0	5	0	0	0	0	0
	VOLUMES	0	11	0	0	17	0	0	0	0	0	0	0	28	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	11	/	11	17	/	17	0	/	0	0	/	0	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	7	0	0	6	0	0	0	0	0	0	0	13					
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.583			0.750			0.000			0.000		0.813					
	APP/DEPART	7	/	7	6	/	6	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	4
	EAST & WEST:	Agate	CONTROL:	STOP E/W

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Agate			WESTBOUND Agate				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 0	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					

Lenwood

NORTH SIDE

Agate WEST SIDE EAST SIDE **Agate**

SOUTH SIDE

Lenwood

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

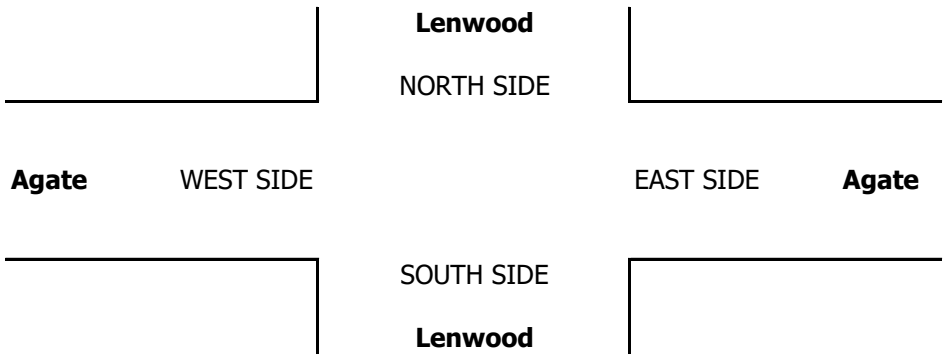
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	4
	EAST & WEST:	Agate	CONTROL:	STOP E/W

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER

▲ N S ▼ ◄ W E ►

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Agate			WESTBOUND Agate				U-TURNS				
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 0	ET 0	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	7:15 AM	0	0	1	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0
	7:30 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0
	8:15 AM	0	2	2	0	0	0	0	0	0	1	0	0	5	0	0	0	0	0
	8:30 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
	VOLUMES	0	3	4	0	4	0	0	0	0	2	0	0	13	0	0	0	0	0
	APPROACH %	0%	43%	57%	0%	100%	0%	0%	0%	0%	100%	0%	0%						
	APP/DEPART	7	/	3	4	/	6	0	/	4	2	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	2	3	0	3	0	0	0	0	1	0	0	9					
	APPROACH %	0%	40%	60%	0%	100%	0%	0%	0%	0%	100%	0%	0%						
	PEAK HR FACTOR		0.313			0.750			0.000			0.250		0.450					
	APP/DEPART	5	/	2	3	/	4	0	/	3	1	/	0	0					
PM	4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:15 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:30 PM	0	1	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0
	4:45 PM	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	1	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	2	2	1	0	0	0	0	0	2	0	0	7	0	0	0	0	0
	APPROACH %	0%	50%	50%	100%	0%	0%	0%	0%	0%	100%	0%	0%						
	APP/DEPART	4	/	2	1	/	2	0	/	3	2	/	0	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	1	1	1	0	0	0	0	0	1	0	0	4					
	APPROACH %	0%	50%	50%	100%	0%	0%	0%	0%	0%	100%	0%	0%						
	PEAK HR FACTOR		0.500			0.250			0.000			0.250		0.500					
	APP/DEPART	2	/	1	1	/	1	0	/	2	1	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

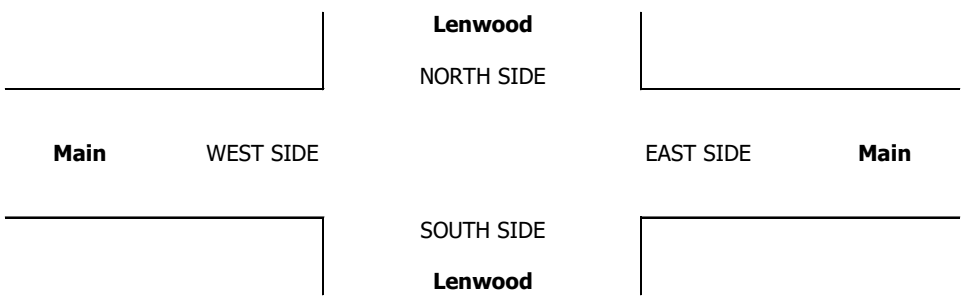
DATE:				
Thu, May 11, 23	LOCATION:	Barstow	PROJECT #:	SC4025
	NORTH & SOUTH:	Lenwood	LOCATION #:	5
	EAST & WEST:	Main	CONTROL:	SIGNAL

NOTES:

AM PM MD OTHER OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

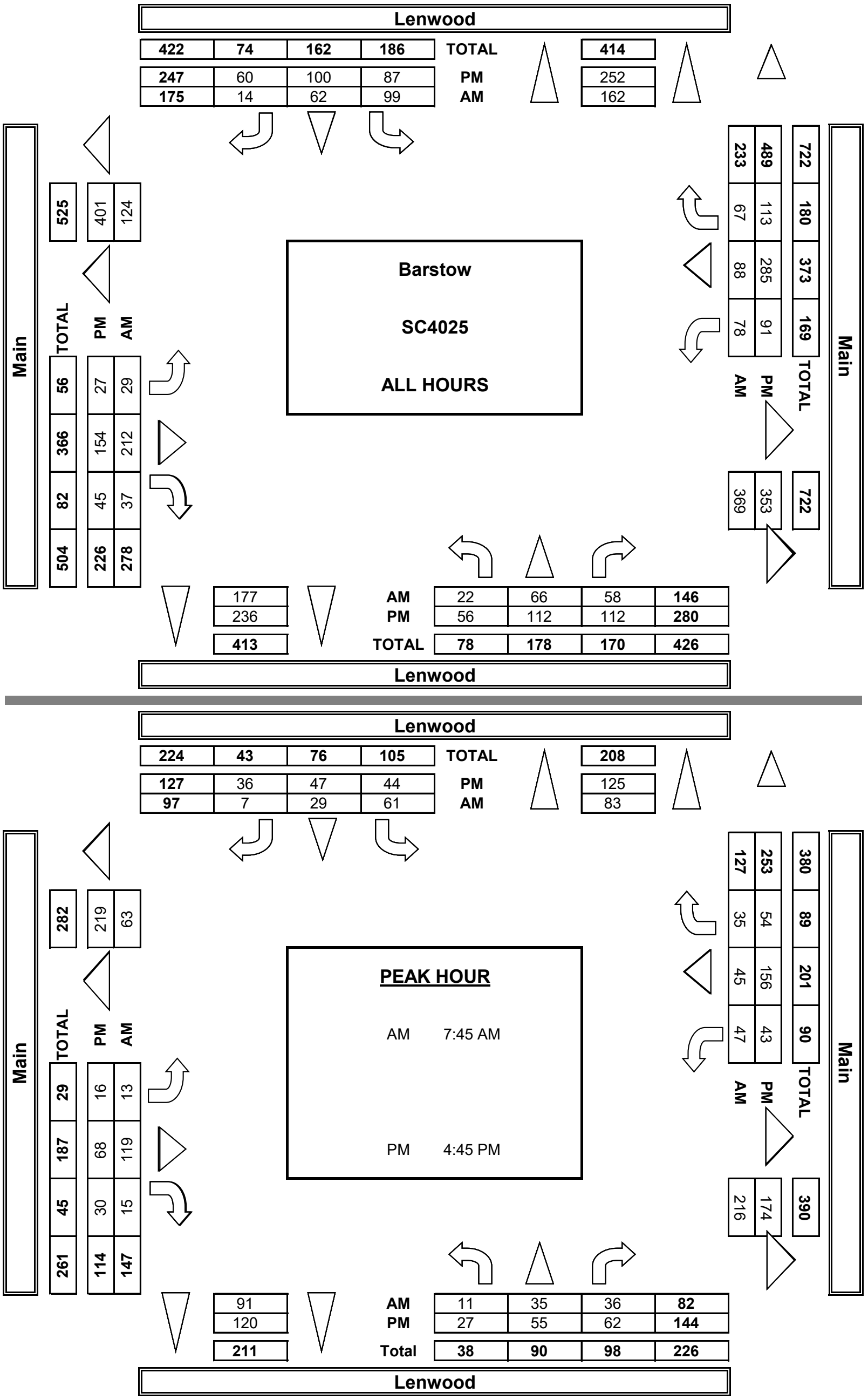
		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 1	SR 1	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	2	11	4	7	8	0	6	19	5	11	14	4	91	0	0	0	0	0
	7:15 AM	2	3	7	10	11	2	4	24	6	1	14	5	89	0	0	0	0	0
	7:30 AM	6	7	4	8	7	3	5	27	8	5	5	11	96	0	0	0	0	0
	7:45 AM	1	8	11	6	11	1	6	39	8	12	9	3	115	0	0	0	0	0
	8:00 AM	5	10	8	15	7	3	4	20	3	11	10	7	103	0	0	0	0	0
	8:15 AM	3	9	9	17	6	2	3	30	1	8	9	16	113	0	0	0	0	0
	8:30 AM	2	8	8	23	5	1	0	30	3	16	17	9	122	0	0	0	0	0
	8:45 AM	1	10	7	13	7	2	1	23	3	14	10	12	103	0	0	0	0	0
	VOLUMES	22	66	58	99	62	14	29	212	37	78	88	67	832	0	0	0	0	0
	APPROACH %	15%	45%	40%	57%	35%	8%	10%	76%	13%	33%	38%	29%						
	APP/DEPART	146	/	162	175	/	177	278	/	369	233	/	124	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	11	35	36	61	29	7	13	119	15	47	45	35	453					
	APPROACH %	13%	43%	44%	63%	30%	7%	9%	81%	10%	37%	35%	28%						
	PEAK HR FACTOR		0.891			0.836			0.693			0.756		0.928					
	APP/DEPART	82	/	83	97	/	91	147	/	216	127	/	63	0					
PM	4:00 PM	6	13	14	9	12	7	0	26	3	14	31	16	151	0	0	0	0	0
	4:15 PM	9	22	8	17	13	8	4	14	3	14	36	14	162	0	0	0	0	0
	4:30 PM	8	10	12	7	7	4	4	25	5	13	36	15	146	0	0	0	0	0
	4:45 PM	7	6	14	10	12	11	2	12	8	13	39	19	153	0	0	0	0	0
	5:00 PM	3	20	14	9	15	10	6	12	7	10	37	15	158	0	0	0	0	0
	5:15 PM	7	11	17	17	11	9	5	25	10	10	41	14	177	0	0	0	0	0
	5:30 PM	10	18	17	8	9	6	3	19	5	10	39	6	150	0	0	0	0	0
	5:45 PM	6	12	16	10	21	5	3	21	4	7	26	14	145	0	0	0	0	0
	VOLUMES	56	112	112	87	100	60	27	154	45	91	285	113	1,242	0	0	0	0	0
	APPROACH %	20%	40%	40%	35%	40%	24%	12%	68%	20%	19%	58%	23%						
	APP/DEPART	280	/	252	247	/	236	226	/	353	489	/	401	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	27	55	62	44	47	36	16	68	30	43	156	54	638					
	APPROACH %	19%	38%	43%	35%	37%	28%	14%	60%	26%	17%	62%	21%						
	PEAK HR FACTOR		0.800			0.858			0.713			0.891		0.901					
	APP/DEPART	144	/	125	127	/	120	114	/	174	253	/	219	0					



		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0
	5:30 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	2	0	0	2	0	2	0	0	2	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	5
	EAST & WEST:	Main	CONTROL:	SIGNAL

PCE Adjusted	NOTES:									AM / PM / MD / OTHER / OTHER
	Class	1	2	3	4	5	6			
	Factor	1	1.5	2	3	2	2			

▲ N ◄ W E ► S ▼

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 1	SR 1	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	2	16	5	10	9	0	8	21	5	12	14	5	106					0
	7:15 AM	2	3	10	15	16	2	4	29	7	1	16	8	112					0
	7:30 AM	9	8	4	10	9	3	5	30	9	6	6	13	111					0
	7:45 AM	1	8	13	7	13	2	6	45	10	16	10	4	134					0
	8:00 AM	7	14	10	17	7	5	4	22	3	13	12	9	122					0
	8:15 AM	3	15	10	19	6	2	3	33	1	12	10	18	130					0
	8:30 AM	2	19	9	23	5	1	0	33	5	17	24	10	147					0
	8:45 AM	1	13	9	15	7	4	1	26	3	19	11	13	121					0
	VOLUMES	27	95	68	114	72	19	31	238	42	96	102	78	980	0	0	0	0	0
	APPROACH %	14%	50%	36%	56%	35%	9%	10%	77%	14%	35%	37%	28%						
	APP/DEPART	189	/	204	204	/	210	311	/	420	276	/	147	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	13	56	41	65	31	10	13	132	19	58	56	40	531					
	APPROACH %	12%	51%	37%	61%	30%	9%	8%	80%	12%	38%	36%	26%						
	PEAK HR FACTOR		0.893			0.905			0.672			0.765		0.906					
	APP/DEPART	109	/	108	105	/	108	164	/	237	153	/	78	0					
PM	4:00 PM	8	15	16	10	16	7	0	29	3	14	33	17	167					0
	4:15 PM	9	30	8	18	18	8	4	15	3	15	38	15	179					0
	4:30 PM	10	14	14	8	7	4	6	26	9	14	37	16	164					0
	4:45 PM	7	7	14	10	16	11	2	13	9	13	42	19	162					0
	5:00 PM	3	24	15	10	19	10	6	14	7	10	41	15	173					0
	5:15 PM	7	13	19	17	11	9	5	28	10	10	42	14	184					0
	5:30 PM	10	18	18	8	18	6	4	19	6	13	40	6	164					0
	5:45 PM	8	12	16	10	31	6	3	23	4	8	27	14	161					0
	VOLUMES	62	132	119	90	136	61	30	165	50	96	298	116	1,352	0	0	0	0	0
	APPROACH %	20%	42%	38%	31%	47%	21%	12%	67%	20%	19%	58%	23%						
	APP/DEPART	313	/	277	286	/	282	245	/	373	510	/	421	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	27	62	65	45	64	36	17	73	31	46	164	54	682					
	APPROACH %	18%	40%	42%	31%	44%	25%	14%	61%	26%	17%	62%	20%						
	PEAK HR FACTOR		0.843			0.935			0.709			0.898		0.927					
	APP/DEPART	154	/	132	144	/	141	121	/	183	264	/	227	0					

Lenwood

NORTH SIDE

Main WEST SIDE

EAST SIDE **Main**

SOUTH SIDE

Lenwood

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	5
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 1	SR 1	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	2	8	3	5	7	0	5	16	5	10	14	3	78	0	0	0	0	0
	7:15 AM	2	3	5	7	7	2	4	17	5	1	12	3	68	0	0	0	0	0
	7:30 AM	4	5	4	5	6	3	5	24	7	4	4	10	81	0	0	0	0	0
	7:45 AM	1	8	9	5	10	0	6	34	7	10	8	2	100	0	0	0	0	0
	8:00 AM	4	8	6	13	7	2	4	18	3	10	9	5	89	0	0	0	0	0
	8:15 AM	3	4	8	15	6	2	3	27	1	6	8	14	97	0	0	0	0	0
	8:30 AM	2	2	7	23	5	1	0	26	2	15	13	8	104	0	0	0	0	0
	8:45 AM	1	8	6	11	7	1	1	21	3	11	9	11	90	0	0	0	0	0
	VOLUMES	19	46	48	84	55	11	28	183	33	67	77	56	707	0	0	0	0	0
	APPROACH %	17%	41%	42%	56%	37%	7%	11%	75%	14%	34%	39%	28%						
	APP/DEPART	113	/	130	150	/	155	244	/	315	200	/	107	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	10	22	30	56	28	5	13	105	13	41	38	29	390					
	APPROACH %	16%	35%	48%	63%	31%	6%	10%	80%	10%	38%	35%	27%						
	PEAK HR FACTOR		0.861			0.767			0.697			0.750		0.938					
	APP/DEPART	62	/	64	89	/	82	131	/	191	108	/	53	0					
PM	4:00 PM	5	12	12	8	10	7	0	22	3	14	28	15	136	0	0	0	0	0
	4:15 PM	9	17	8	16	9	8	4	13	3	13	33	13	146	0	0	0	0	0
	4:30 PM	7	8	11	6	7	4	3	24	3	12	35	14	134	0	0	0	0	0
	4:45 PM	7	5	14	10	10	11	2	11	7	13	37	19	146	0	0	0	0	0
	5:00 PM	3	18	13	8	13	10	6	10	7	10	33	15	146	0	0	0	0	0
	5:15 PM	7	10	15	17	11	9	5	22	10	10	39	14	169	0	0	0	0	0
	5:30 PM	10	18	16	8	4	6	2	19	4	6	37	6	136	0	0	0	0	0
	5:45 PM	5	12	16	10	16	4	3	20	4	6	25	14	135	0	0	0	0	0
	VOLUMES	53	100	105	83	80	59	25	141	41	84	267	110	1,148	0	0	0	0	0
	APPROACH %	21%	39%	41%	37%	36%	27%	12%	68%	20%	18%	58%	24%						
	APP/DEPART	258	/	235	222	/	205	207	/	329	461	/	379	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	27	51	58	43	38	36	15	62	28	39	146	54	597					
	APPROACH %	20%	38%	43%	37%	32%	31%	14%	59%	27%	16%	61%	23%						
	PEAK HR FACTOR		0.773			0.791			0.709			0.866		0.883					
	APP/DEPART	136	/	120	117	/	105	105	/	163	239	/	209	0					

Lenwood

NORTH SIDE

Main WEST SIDE EAST SIDE **Main**

SOUTH SIDE

Lenwood

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

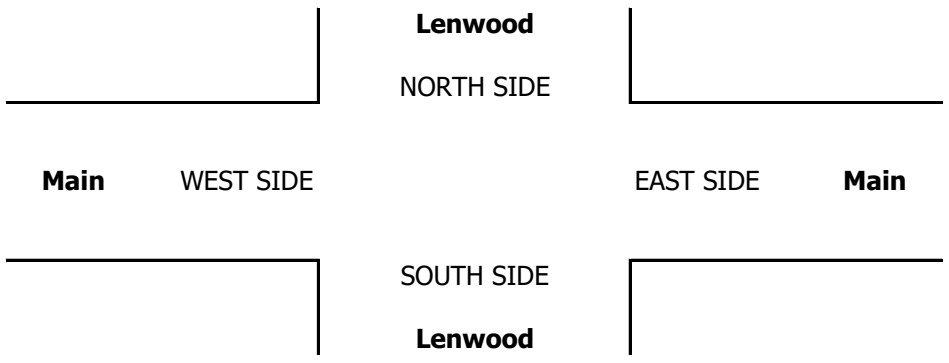
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	5
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 2:	NOTES:
2-AXLE WORK VEHICLES/ TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Main			WESTBOUND Main				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 1	SR 1	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	0	1	0	1	1	0	0	2	0	0	0	0	5	0	0	0	0	0
7:15 AM	0	0	1	0	2	0	0	6	1	0	1	0	11	0	0	0	0	0
7:30 AM	1	2	0	2	0	0	0	2	1	0	0	0	8	0	0	0	0	0
7:45 AM	0	0	0	1	0	1	0	2	0	0	0	1	5	0	0	0	0	0
8:00 AM	0	0	1	1	0	0	0	1	0	0	0	0	3	0	0	0	0	0
8:15 AM	0	3	1	1	0	0	0	1	0	0	0	1	7	0	0	0	0	0
8:30 AM	0	0	1	0	0	0	0	2	0	0	1	1	5	0	0	0	0	0
8:45 AM	0	1	0	0	0	0	0	0	0	0	1	1	3	0	0	0	0	0
VOLUMES	1	7	4	6	3	1	0	16	2	0	3	4	47	0	0	0	0	0
APPROACH %	8%	58%	33%	60%	30%	10%	0%	89%	11%	0%	43%	57%						
APP/DEPART	12	/	11	10	/	5	18	/	26	7	/	5	0					
BEGIN PEAK HR		7:45 AM																
VOLUMES	0	3	3	3	0	1	0	6	0	0	1	3	20					
APPROACH %	0%	50%	50%	75%	0%	25%	0%	100%	0%	0%	25%	75%						
PEAK HR FACTOR		0.375			0.500			0.750			0.500		0.714					
APP/DEPART	6	/	6	4	/	0	6	/	12	4	/	2	0					
PM 4:00 PM	0	0	1	1	0	0	0	3	0	0	2	0	7	0	0	0	0	0
4:15 PM	0	1	0	1	2	0	0	1	0	1	2	0	8	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0
4:45 PM	0	1	0	0	0	0	0	0	1	0	1	0	3	0	0	0	0	0
5:00 PM	0	0	0	1	0	0	0	1	0	0	3	0	5	0	0	0	0	0
5:15 PM	0	0	1	0	0	0	0	1	0	0	2	0	4	0	0	0	0	0
5:30 PM	0	0	1	0	1	0	1	0	1	2	2	0	8	0	0	0	0	0
5:45 PM	0	0	0	0	0	1	0	0	0	1	1	0	3	0	0	0	0	0
VOLUMES	0	2	3	3	3	1	1	6	2	4	14	1	40	0	0	0	0	0
APPROACH %	0%	40%	60%	43%	43%	14%	11%	67%	22%	21%	74%	5%						
APP/DEPART	5	/	4	7	/	9	9	/	12	19	/	15	0					
BEGIN PEAK HR		4:45 PM																
VOLUMES	0	1	2	1	1	0	1	2	2	2	8	0	20					
APPROACH %	0%	33%	67%	50%	50%	0%	20%	40%	40%	20%	80%	0%						
PEAK HR FACTOR		0.750			0.500			0.625			0.625		0.625					
APP/DEPART	3	/	2	2	/	5	5	/	5	10	/	8	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

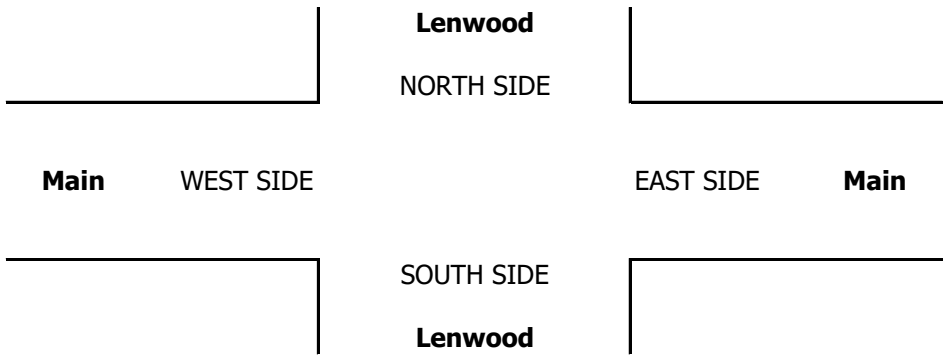
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	5
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 3:	NOTES:
3-AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 1	SR 1	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	7:15 AM	0	0	0	1	0	0	0	0	0	0	1	0	2	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:30 AM	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	0	0
	VOLUMES	0	1	1	1	0	0	0	3	0	2	1	0	9	0	0	0	0	0
	APPROACH %	0%	50%	50%	100%	0%	0%	0%	100%	0%	67%	33%	0%						
	APP/DEPART	2	/	1	1	/	2	3	/	5	3	/	1	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	1	1	0	0	0	0	2	0	0	0	0	4					
	APPROACH %	0%	50%	50%	0%	0%	0%	0%	100%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.500			0.000			0.500			0.000		0.500					
	APP/DEPART	2	/	1	0	/	0	2	/	3	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	1	0	0	0	0	0	0	1	1	0	3	0	0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	50%	50%	0%						
	APP/DEPART	1	/	0	0	/	1	0	/	1	2	/	1	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	0	0	1	0	0	0	0	0	0	1	0	0	2					
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%						
	PEAK HR FACTOR		0.250			0.000			0.000			0.250		0.500					
	APP/DEPART	1	/	0	0	/	1	0	/	1	1	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

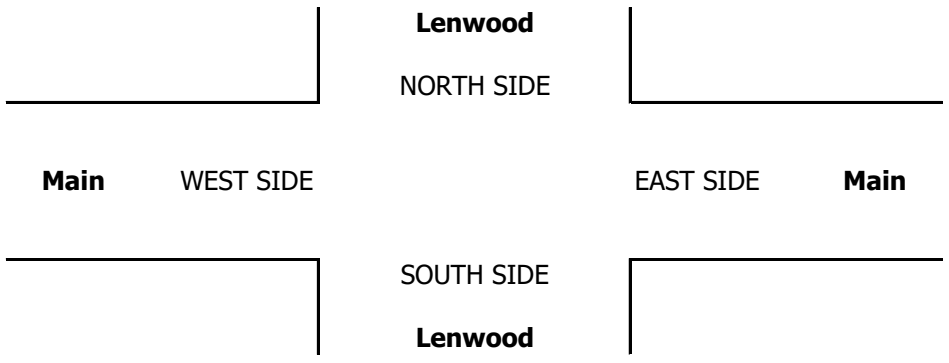
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	5
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 4:	NOTES:
4 OR MORE AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 1	SR 1	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	2	0	1	0	0	1	0	0	0	0	0	4	0	0	0	0	0
	7:15 AM	0	0	1	2	2	0	0	1	0	0	0	1	7	0	0	0	0	0
	7:30 AM	1	0	0	0	1	0	0	1	0	0	0	1	4	0	0	0	0	0
	7:45 AM	0	0	0	0	1	0	0	2	1	2	0	0	6	0	0	0	0	0
	8:00 AM	1	2	0	0	0	1	0	0	0	1	1	0	6	0	0	0	0	0
	8:15 AM	0	2	0	0	0	0	0	0	0	2	0	0	4	0	0	0	0	0
	8:30 AM	0	5	0	0	0	0	0	0	1	0	3	0	9	0	0	0	0	0
	8:45 AM	0	1	1	0	0	1	0	1	0	2	0	0	6	0	0	0	0	0
	VOLUMES	2	12	2	3	4	2	1	5	2	7	4	2	46	0	0	0	0	0
	APPROACH %	13%	75%	13%	33%	44%	22%	13%	63%	25%	54%	31%	15%						
	APP/DEPART	16	/	15	9	/	13	8	/	10	13	/	8	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	1	9	0	0	1	1	0	2	2	5	4	0	25					
	APPROACH %	10%	90%	0%	0%	50%	50%	0%	50%	50%	56%	44%	0%						
	PEAK HR FACTOR		0.500			0.500			0.333			0.750		0.694					
	APP/DEPART	10	/	9	2	/	8	4	/	2	9	/	6	0					
PM	4:00 PM	1	1	0	0	2	0	0	0	0	0	0	0	4	0	0	0	0	0
	4:15 PM	0	3	0	0	2	0	0	0	0	0	0	0	5	0	0	0	0	0
	4:30 PM	1	2	1	0	0	0	1	0	2	0	0	0	7	0	0	0	0	0
	4:45 PM	0	0	0	0	2	0	0	0	0	0	1	0	3	0	0	0	0	0
	5:00 PM	0	2	0	0	2	0	0	0	0	0	1	0	5	0	0	0	0	0
	5:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	5:30 PM	0	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0	0	0
	5:45 PM	1	0	0	0	5	0	0	1	0	0	0	0	7	0	0	0	0	0
	VOLUMES	3	9	1	0	17	0	1	1	2	0	2	0	36	0	0	0	0	0
	APPROACH %	23%	69%	8%	0%	100%	0%	25%	25%	50%	0%	100%	0%						
	APP/DEPART	13	/	10	17	/	19	4	/	2	2	/	5	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	0	3	0	0	8	0	0	0	0	0	2	0	13					
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.375			0.500			0.000			0.500		0.650					
	APP/DEPART	3	/	3	8	/	8	0	/	0	2	/	2	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

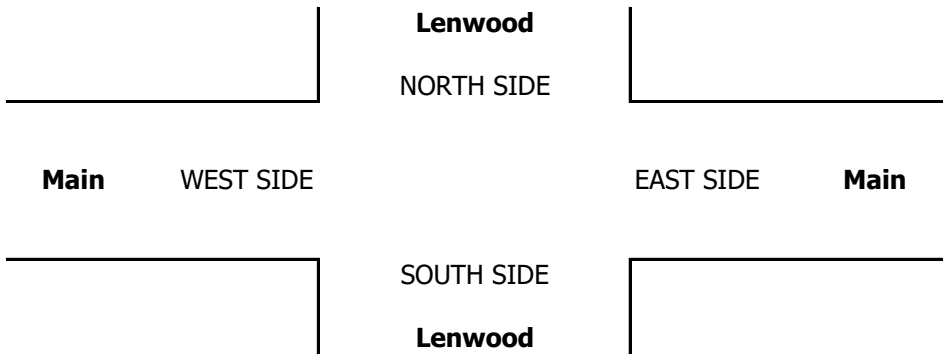
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	5
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 1	SR 1	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	1	/	0	0	/	0	0	/	1	0	/	0	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	1	0	0	0	0	0	0	0	0	0	1					
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.250			0.000			0.000			0.000		0.250					
	APP/DEPART	1	/	0	0	/	0	0	/	1	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	1	/	1	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

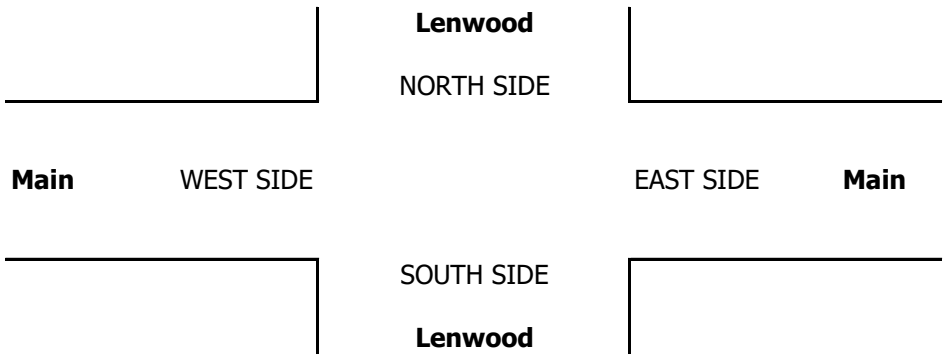
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Lenwood	LOCATION #:	5
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Lenwood			SOUTHBOUND Lenwood			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 1	SR 1	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	1	0	0	0	0	1	0	0	0	1	3	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	7:30 AM	0	0	0	1	0	0	0	0	0	1	1	0	3	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0
	8:00 AM	0	0	1	1	0	0	0	1	0	0	0	2	5	0	0	0	0	0
	8:15 AM	0	0	0	1	0	0	0	1	0	0	1	1	4	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	0	0
	8:45 AM	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	VOLUMES	0	0	2	5	0	0	0	5	0	2	3	5	22	0	0	0	0	0
	APPROACH %	0%	0%	100%	100%	0%	0%	0%	100%	0%	20%	30%	50%						
	APP/DEPART	2	/	5	5	/	2	5	/	12	10	/	3	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	1	2	0	0	0	4	0	1	2	3	13					
	APPROACH %	0%	0%	100%	100%	0%	0%	0%	100%	0%	17%	33%	50%						
	PEAK HR FACTOR		0.250			0.500			1.000			0.750		0.650					
	APP/DEPART	1	/	3	2	/	1	4	/	7	6	/	2	0					
PM	4:00 PM	0	0	1	0	0	0	0	1	0	0	0	1	3	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0
	4:30 PM	0	0	0	1	0	0	0	1	0	1	0	0	3	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	5:00 PM	0	0	1	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	2	1	0	0	0	6	0	2	1	2	14	0	0	0	0	0
	APPROACH %	0%	0%	100%	100%	0%	0%	0%	100%	0%	40%	20%	40%						
	APP/DEPART	2	/	2	1	/	2	6	/	9	5	/	1	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	0	0	1	0	0	0	0	4	0	1	0	0	6					
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	100%	0%	100%	0%	0%						
	PEAK HR FACTOR		0.250			0.000			0.500			0.250		0.750					
	APP/DEPART	1	/	0	0	/	1	4	/	5	1	/	0	0					



National Data & Surveying Services Intersection Turning Movement Count

Location: Lenwood Rd & Sun Valley Dr
City: Barstow
Control: 1-Way Stop(EB)

Project ID: 21-030063-004
Date: 8/4/2021

Data - Totals

NS/EW Streets:	Lenwood Rd				Lenwood Rd				Sun Valley Dr				Sun Valley Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	21	0	0	0	19	1	0	0	0	0	0	0	0	0	0	41
7:15 AM	0	26	0	0	0	21	0	0	1	0	0	0	0	0	0	0	48
7:30 AM	0	13	0	0	0	17	0	0	1	0	0	0	0	0	0	0	31
7:45 AM	0	24	0	0	0	34	0	0	1	0	0	0	0	0	0	0	59
8:00 AM	0	18	0	0	0	17	0	0	0	0	0	0	0	0	0	0	35
8:15 AM	0	19	0	0	0	18	0	0	0	0	0	0	0	0	0	0	37
8:30 AM	0	23	0	0	0	23	0	0	1	0	0	0	0	0	0	0	47
8:45 AM	0	21	0	0	0	25	0	0	2	0	0	0	0	0	0	0	48
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	165	0	0	0	174	1	0	6	0	0	0	0	0	0	0	346
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	99.43%	0.57%	0.00%	100.00%	0.00%	0.00%	0.00%					
PEAK HR :	07:00 AM - 08:00 AM																TOTAL
PEAK HR VOL :	0	84	0	0	0	91	1	0	3	0	0	0	0	0	0	0	179
PEAK HR FACTOR :	0.000	0.808	0.000	0.000	0.000	0.669	0.250	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.758
		0.808				0.676				0.750							

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	35	0	0	0	27	1	0	0	0	0	0	0	0	0	0	63
4:15 PM	0	31	0	0	0	28	0	0	0	0	0	0	0	0	0	0	59
4:30 PM	0	41	0	0	0	30	0	0	0	0	0	0	0	0	0	0	71
4:45 PM	0	38	0	0	0	24	0	0	0	0	1	0	0	0	0	0	63
5:00 PM	1	38	0	0	0	27	0	0	0	0	0	0	0	0	0	0	66
5:15 PM	0	52	0	0	0	21	0	0	0	0	0	0	0	0	0	0	73
5:30 PM	0	48	0	0	0	30	0	0	0	0	2	0	0	0	0	0	80
5:45 PM	1	33	0	0	0	29	0	0	0	0	0	0	0	0	0	0	63
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	2	316	0	0	0	216	1	0	0	0	3	0	0	0	0	0	538
APPROACH %'s :	0.63%	99.37%	0.00%	0.00%	0.00%	99.54%	0.46%	0.00%	0.00%	0.00%	100.00%	0.00%					
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	2	171	0	0	0	107	0	0	0	0	2	0	0	0	0	0	282
PEAK HR FACTOR :	0.500	0.822	0.000	0.000	0.000	0.892	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.881
		0.832				0.892				0.250							

National Data & Surveying Services Intersection Turning Movement Count

Location: Lenwood Rd & Sun Valley Dr
City: Barstow
Control: 1-Way Stop(EB)

Project ID: 21-030063-004
Date: 8/4/2021

Data - Bikes

NS/EW Streets:	Lenwood Rd				Lenwood Rd				Sun Valley Dr				Sun Valley Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0 NL	1 NT	0 NR	0 NU	0 SL	1 ST	0 SR	0 SU	0 EL	1 ET	0 ER	0 EU	0 WL	0 WT	0 WR	0 WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s :																	
PEAK HR :	07:00 AM - 08:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0 NL	1 NT	0 NR	0 NU	0 SL	1 ST	0 SR	0 SU	0 EL	1 ET	0 ER	0 EU	0 WL	0 WT	0 WR	0 WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s :																	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

National Data & Surveying Services Intersection Turning Movement Count

Location: Lenwood Rd & Sun Valley Dr
City: Barstow
Project ID: 21-030063-004
Date: 8/4/2021

Data - Pedestrians (Crosswalks)

NS/EW Streets:	Lenwood Rd		Lenwood Rd		Sun Valley Dr		Sun Valley Dr		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0
APPROACH %'s :									
PEAK HR :	**07:00 AM - 08:00 AM**								TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :									

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0
APPROACH %'s :									
PEAK HR :	**05:00 PM - 06:00 PM**								TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :									

Prepared by National Data & Surveying Services

Lenwood Rd & Sun Valley Dr

Peak Hour Turning Movement Count

ID: 21-030063-004
City: Barstow

Day: Wednesday
Date: 8/4/2021

PEAK HOURS			COUNT PERIODS
07:00 AM - 08:00 AM	AM	7:00 AM - 09:00 AM	AM
NONE	NOON	NONE	NOON
05:00 PM - 06:00 PM	PM	4:00 PM - 06:00 PM	PM

Lenwood Rd — SOUTHBOUND

	AM	NOON	PM
Left	1	0	0
Through	91	0	0
Right	0	0	0
U-Turn	0	0	0
Peak Hour	87	0	171

Peak Hour: AM 7:00 AM - 09:00 AM; NOON NONE; PM 4:00 PM - 06:00 PM

Sun Valley Dr — EASTBOUND

	AM	NOON	PM	Peak Hour
Left	1	0	2	0
Through	0	0	0	0
Right	3	0	0	0
U-Turn	0	0	0	1
	0	0	2	0

Peak Hour: AM 7:00 AM - 09:00 AM; NOON NONE; PM 4:00 PM - 06:00 PM

Sun Valley Dr — WESTBOUND

	PM	NOON	AM	Peak Hour
U-Turn	0	0	0	0
Left	0	0	0	0
Through	0	0	0	0
Right	0	0	0	0
	0	0	0	0

Peak Hour: PM 4:00 PM - 06:00 PM; NOON NONE; AM 7:00 AM - 09:00 AM

CONTROL

1-Way Stop(EB)

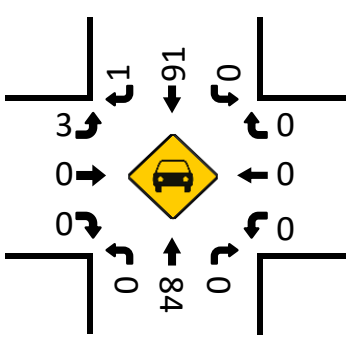
	AM	NOON	PM
TEV	179	0	282
PHF	0.76		0.88

Lenwood Rd — NORTHBOUND

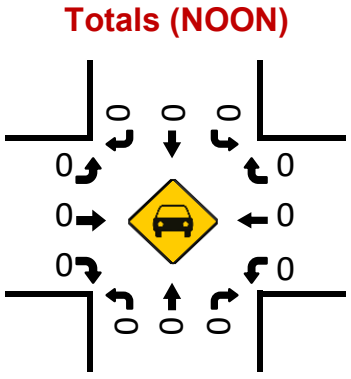
	AM	NOON	PM
Left	91	0	109
Through	0	0	0
Right	84	0	171
U-Turn	0	0	0
Peak Hour	84	0	171

Peak Hour: AM 7:00 AM - 09:00 AM; NOON NONE; PM 4:00 PM - 06:00 PM

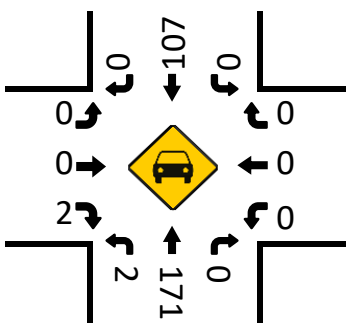
Totals (AM)



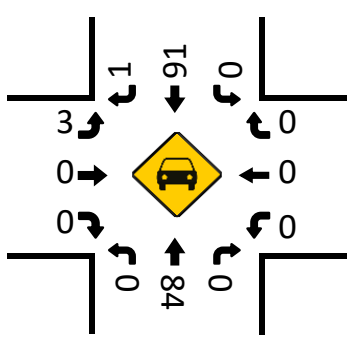
Totals (NOON)



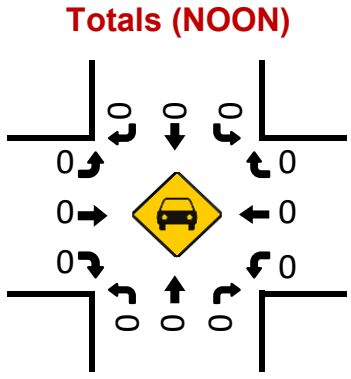
Totals (PM)



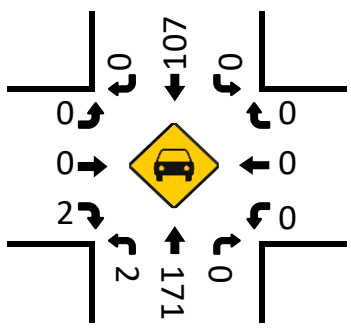
Totals (AM)



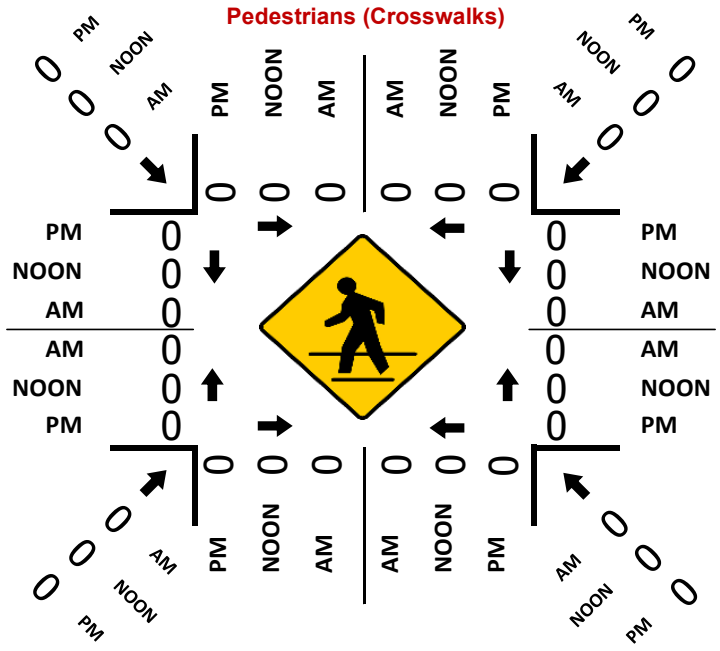
Totals (NOON)



Totals (PM)



Pedestrians (Crosswalks)


PM
NOON
AM
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National Data & Surveying Services Intersection Turning Movement Count

Location: Lenwood Rd & Love's Travel Stop Dwy
City: Barstow
Control: No Control

Project ID: 21-030063-008
Date: 8/4/2021

Data - Totals

NS/EW Streets:	Lenwood Rd				Lenwood Rd				Love's Travel Stop Dwy				Love's Travel Stop Dwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0 NL	1 NT	1 NR	0 NU	0 SL	2 ST	0 SR	0 SU	0 EL	1 ET	0 ER	0 EU	0 WL	1 WT	0 WR	0 WU	TOTAL
7:00 AM	10	18	4	1	0	10	8	0	4	0	4	0	0	0	0	0	59
7:15 AM	8	20	1	0	0	16	3	0	5	0	6	0	1	0	0	0	60
7:30 AM	1	13	3	0	0	17	3	0	1	0	10	0	0	1	0	0	49
7:45 AM	4	20	5	1	3	26	5	0	2	0	3	0	0	0	0	0	69
8:00 AM	7	18	0	0	0	10	7	0	4	0	8	0	0	0	0	0	54
8:15 AM	5	12	1	1	1	16	5	0	2	1	5	0	1	0	0	0	50
8:30 AM	6	30	3	0	0	19	3	0	2	0	7	0	0	0	0	0	70
8:45 AM	5	12	2	0	0	20	5	0	2	0	6	0	3	0	0	0	55
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	46	143	19	3	4	134	39	0	22	1	49	0	5	1	0	0	466
APPROACH %'s :	21.80%	67.77%	9.00%	1.42%	2.26%	75.71%	22.03%	0.00%	30.56%	1.39%	68.06%	0.00%	83.33%	16.67%	0.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	22	80	9	2	4	71	20	0	10	1	23	0	1	0	0	0	243
PEAK HR FACTOR :	0.786	0.667	0.450	0.500	0.333	0.683	0.714	0.000	0.625	0.250	0.719	0.000	0.250	0.000	0.000	0.000	0.868
	0.724				0.699				0.708				0.250				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0 NL	1 NT	1 NR	0 NU	0 SL	2 ST	0 SR	0 SU	0 EL	1 ET	0 ER	0 EU	0 WL	1 WT	0 WR	0 WU	TOTAL
4:00 PM	8	35	2	0	0	23	4	0	4	0	7	0	4	0	0	0	87
4:15 PM	12	19	1	0	0	24	4	0	8	0	8	0	0	0	0	0	76
4:30 PM	10	39	2	1	0	26	4	0	5	0	7	0	2	0	0	0	96
4:45 PM	7	30	2	0	0	27	3	0	6	0	4	0	4	0	0	0	83
5:00 PM	4	35	1	0	0	26	2	0	4	0	2	0	2	0	0	0	76
5:15 PM	3	51	0	0	1	15	4	0	2	0	5	0	5	0	2	0	88
5:30 PM	4	44	1	0	0	28	5	0	4	0	5	0	2	0	1	0	94
5:45 PM	8	30	1	0	0	28	5	0	2	1	6	0	1	1	0	0	83
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	56	283	10	1	1	197	31	0	35	1	44	0	20	1	3	0	683
APPROACH %'s :	16.00%	80.86%	2.86%	0.29%	0.44%	86.03%	13.54%	0.00%	43.75%	1.25%	55.00%	0.00%	83.33%	4.17%	12.50%	0.00%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	24	155	5	1	1	94	13	0	17	0	18	0	13	0	2	0	343
PEAK HR FACTOR :	0.600	0.760	0.625	0.250	0.250	0.870	0.813	0.000	0.708	0.000	0.643	0.000	0.650	0.000	0.250	0.000	0.893
	0.856				0.900				0.729				0.536				

National Data & Surveying Services Intersection Turning Movement Count

Location: ~~Lenwood Rd & Love's Travel Stop Dwy~~
City: ~~Barstow~~
Control: ~~No Control~~

Project ID: 21-030063-008
Date: 8/4/2021

Data - Bikes

NS/EW Streets:	~~Lenwood Rd~~				~~Lenwood Rd~~				~~Love's Travel Stop Dwy~~				~~Love's Travel Stop Dwy~~				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	~~0~~ NL	~~1~~ NT	~~1~~ NR	~~0~~ NU	~~0~~ SL	~~2~~ ST	~~0~~ SR	~~0~~ SU	~~0~~ EL	~~1~~ ET	~~0~~ ER	~~0~~ EU	~~0~~ WL	~~1~~ WT	~~0~~ WR	~~0~~ WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
APPROACH %'s :																	
PEAK HR :	~~07:45 AM - 08:45 AM~~																TOTAL
PEAK HR VOL :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
PEAK HR FACTOR :	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	~~0~~ NL	~~1~~ NT	~~1~~ NR	~~0~~ NU	~~0~~ SL	~~2~~ ST	~~0~~ SR	~~0~~ SU	~~0~~ EL	~~1~~ ET	~~0~~ ER	~~0~~ EU	~~0~~ WL	~~1~~ WT	~~0~~ WR	~~0~~ WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
APPROACH %'s :																	
PEAK HR :	~~04:30 PM - 05:30 PM~~																TOTAL
PEAK HR VOL :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
PEAK HR FACTOR :	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	

National Data & Surveying Services Intersection Turning Movement Count

Location: ~~Lenwood Rd & Love's Travel Stop Dwy~~ **Project ID:** 21-030063-008
City: ~~Barstow~~ **Date:** 8/4/2021

Data - Pedestrians (Crosswalks)

NS/EW Streets:	~~Lenwood Rd~~		~~Lenwood Rd~~		~~Love's Travel Stop Dwy~~		~~Love's Travel Stop Dwy~~		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	1	0	0	0	~~1~~
7:15 AM	0	0	0	0	0	0	0	0	~~0~~
7:30 AM	0	0	0	0	0	1	0	0	~~1~~
7:45 AM	0	0	0	0	0	0	0	0	~~0~~
8:00 AM	0	0	0	0	0	0	0	0	~~0~~
8:15 AM	0	0	0	0	0	0	0	0	~~0~~
8:30 AM	0	0	0	0	0	0	0	0	~~0~~
8:45 AM	0	0	0	0	0	0	0	0	~~0~~
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	~~0~~	~~0~~	~~0~~	~~0~~	~~1~~	~~1~~	~~0~~	~~0~~	~~2~~
APPROACH %'s :					~~50.00%~~	~~50.00%~~			
PEAK HR :	~~07:45 AM - 08:45 AM~~								TOTAL
PEAK HR VOL :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
PEAK HR FACTOR :									

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	~~0~~
4:15 PM	0	0	0	0	0	0	0	0	~~0~~
4:30 PM	0	0	0	0	0	0	0	0	~~0~~
4:45 PM	0	0	0	0	0	0	0	0	~~0~~
5:00 PM	0	0	0	0	0	0	0	0	~~0~~
5:15 PM	0	0	0	0	0	0	0	0	~~0~~
5:30 PM	0	0	0	0	0	0	0	0	~~0~~
5:45 PM	0	0	0	0	0	0	0	0	~~0~~
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
APPROACH %'s :									
PEAK HR :	~~04:30 PM - 05:30 PM~~								TOTAL
PEAK HR VOL :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
PEAK HR FACTOR :									

Prepared by National Data & Surveying Services

~~Lenwood Rd & Love's Travel Stop Dwy~~

Peak Hour Turning Movement Count

ID: 21-030063-008
City: ~~Barstow~~

Day: ~~Wednesday~~
Date: 8/4/2021

~~Lenwood Rd~~

SOUTHBOUND

PEAK HOURS								COUNT PERIODS
~~07:45 AM - 08:45 AM~~	AM	~~20~~	~~71~~	~~4~~	~~0~~	~~90~~	AM	7:00 AM - 09:00 AM
~~NONE~~	NOON	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	NOON	NONE
~~04:30 PM - 05:30 PM~~	PM	~~13~~	~~94~~	~~1~~	~~0~~	~~174~~	PM	4:00 PM - 06:00 PM

EASTBOUND

AM	NOON	PM	
~~42~~	~~0~~	~~37~~	
~~0~~	~~0~~	~~0~~	~~0~~
~~10~~	~~0~~	~~17~~	~~0~~
~~1~~	~~0~~	~~0~~	~~1~~
~~23~~	~~0~~	~~18~~	~~0~~
AM	NOON	PM	

WESTBOUND

	PM	NOON	AM
~~0~~	~~2~~	~~0~~	~~0~~
~~1~~	~~0~~	~~0~~	~~0~~
~~0~~	~~13~~	~~0~~	~~1~~
~~0~~	~~0~~	~~0~~	~~0~~
	~~6~~	~~0~~	~~14~~
	PM	NOON	AM

CONTROL

No Control

TEV	~~243~~ AM	~~0~~ NOON	~~343~~ PM
PHF	~~0.87~~		~~0.89~~

	~~0~~	~~2~~	~~0~~	~~0~~	
	~~0~~	~~0~~	~~0~~	~~0~~	
	~~1~~	~~0~~	~~0~~	~~1~~	
	~~0~~	~~0~~	~~0~~	~~0~~	
PM	~~126~~	~~1~~	~~24~~	~~155~~	~~5~~
NOON	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
AM	~~97~~	~~2~~	~~22~~	~~80~~	~~9~~

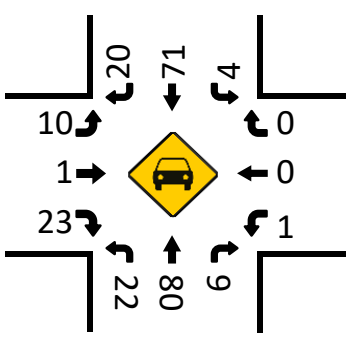
NORTHBOUND

~~Lenwood Rd~~

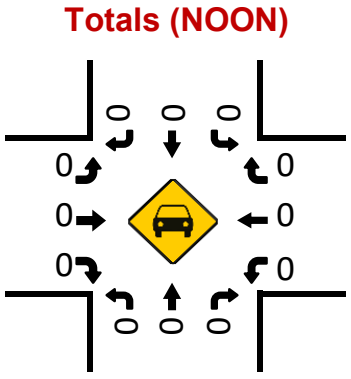
~~Love's Travel Stop Dwy~~

~~Love's Travel Stop Dwy~~

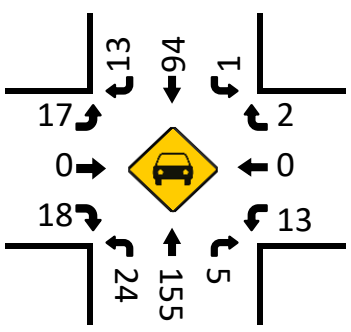
Totals (AM)



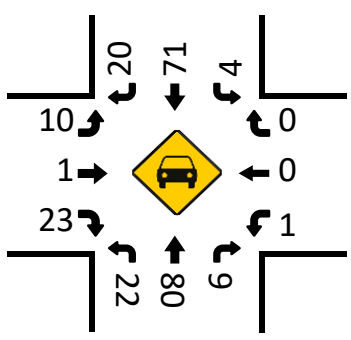
Totals (NOON)



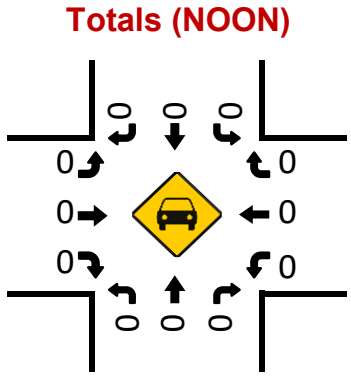
Totals (PM)



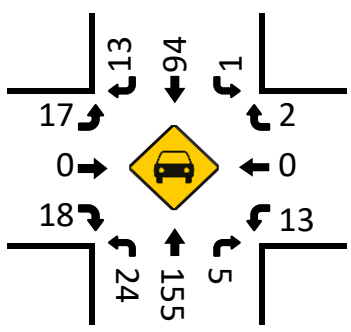
Totals (AM)



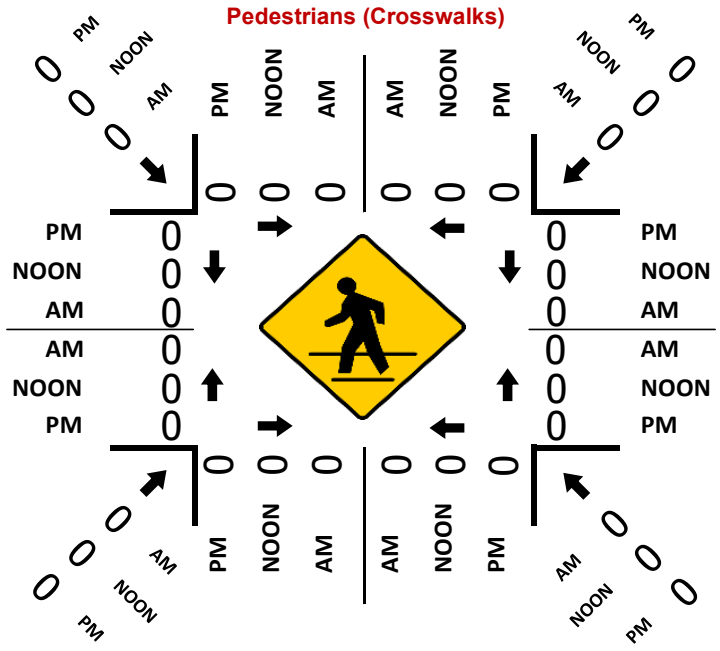
Totals (NOON)



Totals (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services Intersection Turning Movement Count

Location: ~~Lenwood Rd & High Desert Rd~~
City: ~~Barstow~~
Control: ~~1-Way Stop(EB)~~

Project ID: 21-030063-007
Date: 8/4/2021

Data - Totals

NS/EW Streets:	~~Lenwood Rd~~				~~Lenwood Rd~~				~~High Desert Rd~~				~~High Desert Rd~~				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	~~1~~ NL	~~2~~ NT	~~0~~ NR	~~0~~ NU	~~0~~ SL	~~2~~ ST	~~0~~ SR	~~0~~ SU	~~1~~ EL	~~1~~ ET	~~0~~ ER	~~0~~ EU	~~0~~ WL	~~0~~ WT	~~0~~ WR	~~0~~ WU	TOTAL
7:00 AM	7	24	0	0	0	17	1	0	2	0	15	0	0	0	0	0	~~66~~
7:15 AM	9	32	0	0	0	16	0	0	0	0	17	0	0	0	0	0	~~74~~
7:30 AM	10	21	0	1	0	32	0	0	0	0	13	0	0	0	0	0	~~77~~
7:45 AM	14	20	0	0	0	23	1	0	2	0	8	0	0	0	0	0	~~68~~
8:00 AM	17	33	0	0	0	23	2	0	1	0	16	0	0	0	0	0	~~92~~
8:15 AM	12	33	0	1	0	18	0	0	0	0	23	0	0	0	0	0	~~87~~
8:30 AM	6	22	0	1	0	17	1	0	1	0	15	0	0	0	0	0	~~63~~
8:45 AM	18	32	0	0	0	38	2	0	1	0	22	0	0	0	0	0	~~113~~
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	~~93~~	~~217~~	~~0~~	~~3~~	~~0~~	~~184~~	~~7~~	~~0~~	~~7~~	~~0~~	~~129~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~640~~
APPROACH %'s :	~~29.71%~~	~~69.33%~~	~~0.00%~~	~~0.96%~~	~~0.00%~~	~~96.34%~~	~~3.66%~~	~~0.00%~~	~~5.15%~~	~~0.00%~~	~~94.85%~~	~~0.00%~~					
PEAK HR :	~~08:00 AM - 09:00 AM~~																TOTAL
PEAK HR VOL :	~~53~~	~~120~~	~~0~~	~~2~~	~~0~~	~~96~~	~~5~~	~~0~~	~~3~~	~~0~~	~~76~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~355~~
PEAK HR FACTOR :	~~0.736~~	~~0.909~~	~~0.000~~	~~0.500~~	~~0.000~~	~~0.632~~	~~0.625~~	~~0.000~~	~~0.750~~	~~0.000~~	~~0.826~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.785~~
	~~0.875~~				~~0.631~~				~~0.859~~								

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	~~1~~ NL	~~2~~ NT	~~0~~ NR	~~0~~ NU	~~0~~ SL	~~2~~ ST	~~0~~ SR	~~0~~ SU	~~1~~ EL	~~1~~ ET	~~0~~ ER	~~0~~ EU	~~0~~ WL	~~0~~ WT	~~0~~ WR	~~0~~ WU	TOTAL
4:00 PM	19	38	0	1	0	32	1	0	0	0	19	0	0	0	0	0	~~110~~
4:15 PM	9	42	0	0	0	33	0	0	1	0	15	0	0	0	0	0	~~100~~
4:30 PM	19	34	0	0	0	33	2	0	0	0	16	0	0	0	0	0	~~104~~
4:45 PM	17	52	0	0	0	32	1	0	0	0	13	0	0	0	0	0	~~115~~
5:00 PM	8	39	0	1	0	26	0	0	2	0	11	0	0	0	0	0	~~87~~
5:15 PM	10	47	0	0	0	29	2	0	0	0	10	0	0	0	0	0	~~98~~
5:30 PM	11	55	0	0	0	31	3	0	1	0	19	0	0	0	0	0	~~120~~
5:45 PM	13	37	0	1	0	36	0	0	3	0	6	0	0	0	0	0	~~96~~
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	~~106~~	~~344~~	~~0~~	~~3~~	~~0~~	~~252~~	~~9~~	~~0~~	~~7~~	~~0~~	~~109~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~830~~
APPROACH %'s :	~~23.40%~~	~~75.94%~~	~~0.00%~~	~~0.66%~~	~~0.00%~~	~~96.55%~~	~~3.45%~~	~~0.00%~~	~~6.03%~~	~~0.00%~~	~~93.97%~~	~~0.00%~~					
PEAK HR :	~~04:00 PM - 05:00 PM~~																TOTAL
PEAK HR VOL :	~~64~~	~~166~~	~~0~~	~~1~~	~~0~~	~~130~~	~~4~~	~~0~~	~~1~~	~~0~~	~~63~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~429~~
PEAK HR FACTOR :	~~0.842~~	~~0.798~~	~~0.000~~	~~0.250~~	~~0.000~~	~~0.985~~	~~0.500~~	~~0.000~~	~~0.250~~	~~0.000~~	~~0.829~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.933~~
	~~0.837~~				~~0.957~~				~~0.842~~								

National Data & Surveying Services Intersection Turning Movement Count

Location: ~~Lenwood Rd & High Desert Rd~~
City: ~~Barstow~~
Control: ~~1-Way Stop(EB)~~

Project ID: 21-030063-007
Date: 8/4/2021

Data - Bikes

NS/EW Streets:	~~Lenwood Rd~~				~~Lenwood Rd~~				~~High Desert Rd~~				~~High Desert Rd~~				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	~~1~~ NL	~~2~~ NT	~~0~~ NR	~~0~~ NU	~~0~~ SL	~~2~~ ST	~~0~~ SR	~~0~~ SU	~~1~~ EL	~~1~~ ET	~~0~~ ER	~~0~~ EU	~~0~~ WL	~~0~~ WT	~~0~~ WR	~~0~~ WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
APPROACH %'s :																	
PEAK HR :	~~08:00 AM - 09:00 AM~~																TOTAL
PEAK HR VOL :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
PEAK HR FACTOR :	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	~~1~~ NL	~~2~~ NT	~~0~~ NR	~~0~~ NU	~~0~~ SL	~~2~~ ST	~~0~~ SR	~~0~~ SU	~~1~~ EL	~~1~~ ET	~~0~~ ER	~~0~~ EU	~~0~~ WL	~~0~~ WT	~~0~~ WR	~~0~~ WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~~0~~
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
APPROACH %'s :																	
PEAK HR :	~~04:00 PM - 05:00 PM~~																TOTAL
PEAK HR VOL :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
PEAK HR FACTOR :	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	

National Data & Surveying Services Intersection Turning Movement Count

Location: ~~Lenwood Rd & High Desert Rd~~ **Project ID:** 21-030063-007
City: ~~Barstow~~ **Date:** 8/4/2021

Data - Pedestrians (Crosswalks)

NS/EW Streets:	~~Lenwood Rd~~		~~Lenwood Rd~~		~~High Desert Rd~~		~~High Desert Rd~~		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	~~0~~
7:15 AM	0	0	0	0	0	0	0	2	~~2~~
7:30 AM	0	0	0	0	0	0	0	0	~~0~~
7:45 AM	0	0	0	0	0	0	0	0	~~0~~
8:00 AM	0	0	0	0	0	0	0	0	~~0~~
8:15 AM	0	0	0	0	0	0	0	0	~~0~~
8:30 AM	0	0	0	0	0	0	0	0	~~0~~
8:45 AM	0	0	0	0	0	0	0	0	~~0~~
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~2~~	~~2~~
APPROACH %'s :							~~0.00%~~	~~100.00%~~	
PEAK HR :	~~08:00 AM - 09:00 AM~~								TOTAL
PEAK HR VOL :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
PEAK HR FACTOR :									

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	~~0~~
4:15 PM	0	0	0	0	0	0	0	0	~~0~~
4:30 PM	0	0	0	0	0	0	0	0	~~0~~
4:45 PM	0	0	0	0	0	0	0	0	~~0~~
5:00 PM	0	0	0	2	0	0	2	0	~~4~~
5:15 PM	0	0	0	0	0	0	0	0	~~0~~
5:30 PM	0	0	0	0	0	0	0	0	~~0~~
5:45 PM	0	0	0	0	0	0	0	0	~~0~~
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	~~0~~	~~0~~	~~0~~	~~2~~	~~0~~	~~0~~	~~2~~	~~0~~	~~4~~
APPROACH %'s :			~~0.00%~~	~~100.00%~~			~~100.00%~~	~~0.00%~~	
PEAK HR :	~~04:00 PM - 05:00 PM~~								TOTAL
PEAK HR VOL :	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
PEAK HR FACTOR :									

Prepared by National Data & Surveying Services

~~Lenwood Rd & High Desert Rd~~

Peak Hour Turning Movement Count

ID: 21-030063-007
City: ~~Barstow~~

Day: ~~Wednesday~~
Date: 8/4/2021

PEAK HOURS			~~Lenwood Rd~~ SOUTHBOUND						COUNT PERIODS
~~08:00 AM - 09:00 AM~~	AM	~~5~~	~~96~~	~~0~~	~~0~~	~~123~~	AM	7:00 AM - 09:00 AM	
~~NONE~~	NOON	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	NOON	NONE	
~~04:00 PM - 05:00 PM~~	PM	~~4~~	~~130~~	~~0~~	~~0~~	~~167~~	PM	4:00 PM - 06:00 PM	

EASTBOUND					WESTBOUND				
AM	NOON	PM			PM	NOON	AM		
~~58~~	~~0~~	~~68~~	⇦		~~0~~	~~0~~	~~0~~	~~0~~	↰
~~0~~	~~0~~	~~0~~	↰	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	←
~~3~~	~~0~~	~~1~~	↱	~~1~~	~~0~~	~~0~~	~~0~~	~~0~~	↰
~~0~~	~~0~~	~~0~~	→	~~1~~	~~0~~	~~0~~	~~0~~	~~0~~	↰
~~76~~	~~0~~	~~63~~	↱	~~0~~					⇨
AM	NOON	PM			~~0~~	~~0~~	~~0~~		
					PM	NOON	AM		

CONTROL			
1-Way Stop(EB)			
TEV	~~355~~ AM	~~0~~ NOON	~~429~~ PM
PHF	~~0.79~~		~~0.93~~

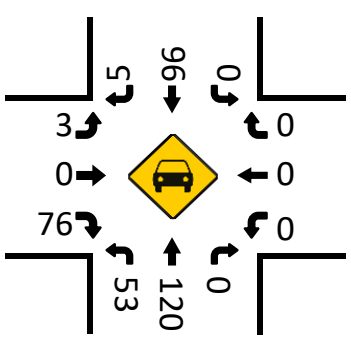
	~~0~~	~~2~~	~~0~~	~~0~~	
	~~0~~	~~1~~	~~2~~	~~0~~	
PM	~~194~~	~~1~~	~~64~~	~~166~~	~~0~~ PM
NOON	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~ NOON
AM	~~174~~	~~2~~	~~53~~	~~120~~	~~0~~ AM

~~Lenwood Rd~~ NORTHBOUND

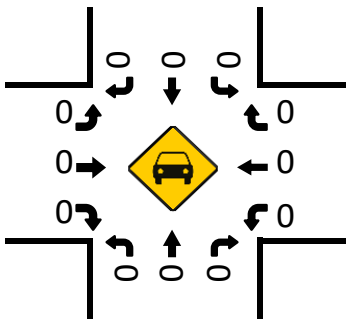
~~High Desert Rd~~

~~High Desert Rd~~

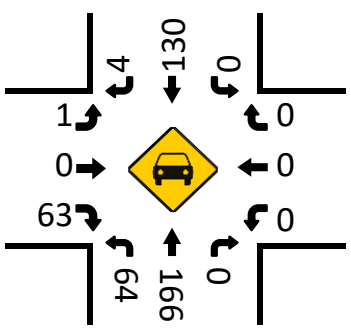
Totals (AM)



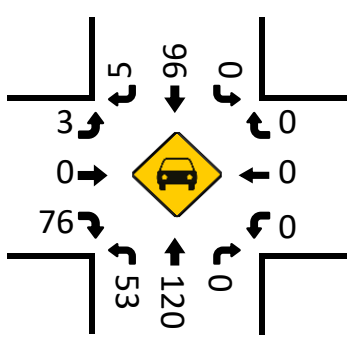
Totals (NOON)



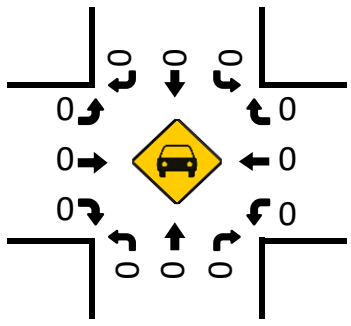
Totals (PM)



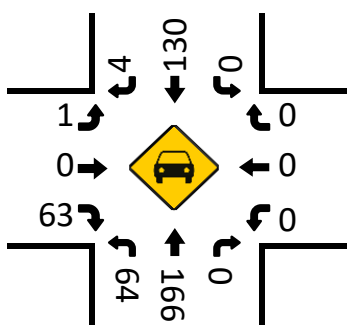
Totals (AM)



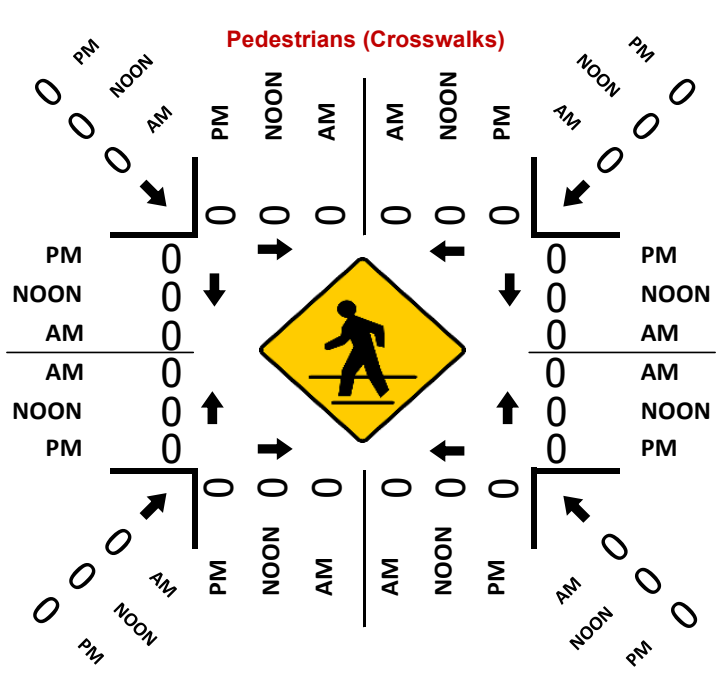
Totals (NOON)



Totals (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services Intersection Turning Movement Count

Location: Truck Freightliner Service Point Dwy & Lenwood Rd
City: Barstow
Control: 1-Way Stop(NB)

Project ID: 21-030063-006
Date: 8/4/2021

Data - Totals

NS/EW Streets:	Truck Freightliner Service Point Dwy				Truck Freightliner Service Point Dwy				Lenwood Rd				Lenwood Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0 NL	1 NT	0 NR	0 NU	0 SL	1 ST	0 SR	0 SU	0 EL	2 ET	0 ER	0 EU	1 WL	2 WT	0 WR	0 WU	TOTAL
7:00 AM	2	0	11	0	2	0	2	0	2	37	2	0	13	25	4	0	100
7:15 AM	0	0	14	0	1	0	0	0	0	43	5	0	6	40	3	0	112
7:30 AM	2	0	24	0	0	0	1	0	1	33	4	0	8	34	3	0	110
7:45 AM	0	0	19	0	5	0	3	0	0	32	1	0	17	35	2	0	114
8:00 AM	4	0	18	0	5	0	4	0	0	40	0	0	12	30	8	0	121
8:15 AM	0	0	21	0	3	0	2	1	0	33	2	0	6	37	3	0	108
8:30 AM	1	0	8	0	1	0	2	0	1	42	2	0	8	39	0	0	104
8:45 AM	1	1	16	0	1	0	0	0	0	45	1	0	16	38	2	0	121
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	10	1	131	0	18	0	14	1	4	305	17	0	86	278	25	0	890
APPROACH %'s :	7.04%	0.70%	92.25%	0.00%	54.55%	0.00%	42.42%	3.03%	1.23%	93.56%	5.21%	0.00%	22.11%	71.47%	6.43%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	6	0	75	0	11	0	8	0	1	148	10	0	43	139	16	0	457
PEAK HR FACTOR :	0.375	0.000	0.781	0.000	0.550	0.000	0.500	0.000	0.250	0.860	0.500	0.000	0.632	0.869	0.500	0.000	0.944
	0.779				0.528				0.828				0.917				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0 NL	1 NT	0 NR	0 NU	0 SL	1 ST	0 SR	0 SU	0 EL	2 ET	0 ER	0 EU	1 WL	2 WT	0 WR	0 WU	TOTAL
4:00 PM	0	0	17	0	0	0	1	0	0	47	4	0	17	51	0	0	137
4:15 PM	2	0	17	0	0	0	0	0	0	43	3	0	15	59	0	2	141
4:30 PM	0	0	10	0	0	0	0	0	2	45	1	0	19	50	3	0	130
4:45 PM	2	0	14	0	1	0	4	0	4	45	4	0	19	60	4	1	158
5:00 PM	2	0	15	0	2	0	0	0	0	43	2	0	11	54	2	0	131
5:15 PM	1	0	7	0	0	0	0	0	2	39	4	0	22	61	2	0	138
5:30 PM	1	0	9	0	1	0	2	0	0	46	3	0	27	69	9	0	167
5:45 PM	0	0	17	0	4	0	1	0	1	41	2	0	20	48	1	0	135
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	8	0	106	0	8	0	8	0	9	349	23	0	150	452	21	3	1137
APPROACH %'s :	7.02%	0.00%	92.98%	0.00%	50.00%	0.00%	50.00%	0.00%	2.36%	91.60%	6.04%	0.00%	23.96%	72.20%	3.35%	0.48%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	6	0	45	0	4	0	6	0	6	173	13	0	79	244	17	1	594
PEAK HR FACTOR :	0.750	0.000	0.750	0.000	0.500	0.000	0.375	0.000	0.375	0.940	0.813	0.000	0.731	0.884	0.472	0.250	0.889
	0.750				0.500				0.906				0.812				

National Data & Surveying Services Intersection Turning Movement Count

Location: Truck Freightliner Service Point Dwy & Lenwood Rd
City: Barstow
Control: 1-Way Stop(NB)

Project ID: 21-030063-006
Date: 8/4/2021

Data - Bikes

NS/EW Streets:	Truck Freightliner Service Point Dwy				Truck Freightliner Service Point Dwy				Lenwood Rd				Lenwood Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0 NL	1 NT	0 NR	0 NU	0 SL	1 ST	0 SR	0 SU	0 EL	2 ET	0 ER	0 EU	1 WL	2 WT	0 WR	0 WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s :																	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0 NL	1 NT	0 NR	0 NU	0 SL	1 ST	0 SR	0 SU	0 EL	2 ET	0 ER	0 EU	1 WL	2 WT	0 WR	0 WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s :																	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

National Data & Surveying Services Intersection Turning Movement Count

Location: Truck Freightliner Service Point Dwy & Lenwood Rd
City: Barstow
Project ID: 21-030063-006
Date: 8/4/2021

Data - Pedestrians (Crosswalks)

NS/EW Streets:	Truck Freightliner Service Point Dwy		Truck Freightliner Service Point Dwy		Lenwood Rd		Lenwood Rd		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	1	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	1	0	0	0	0	0	1
APPROACH %'s :			100.00%	0.00%					
PEAK HR :	**07:15 AM - 08:15 AM**								TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :									

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	1	0	0	0	0	1	2
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	1	1	0	0	0	0	0	2
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	2	0	0	0	0	0	1	0	3
5:15 PM	0	0	1	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	2	1	3	0	0	0	1	1	8
APPROACH %'s :	66.67%	33.33%	100.00%	0.00%			50.00%	50.00%	
PEAK HR :	**04:45 PM - 05:45 PM**								TOTAL
PEAK HR VOL :	2	0	1	0	0	0	1	0	4
PEAK HR FACTOR :	0.250		0.250				0.250		0.333
	0.250		0.250				0.250		

Prepared by National Data & Surveying Services

Truck Freightliner Service Point Dwy & Lenwood Rd

Peak Hour Turning Movement Count

ID: 21-030063-006
City: Barstow

Day: Wednesday
Date: 8/4/2021

PEAK HOURS		COUNT PERIODS
AM	07:15 AM - 08:15 AM	7:00 AM - 09:00 AM
NOON	NONE	NONE
PM	04:45 PM - 05:45 PM	4:00 PM - 06:00 PM

SOUTHBOUND — Truck Freightliner Service Point Dwy

	U-Turn	Left	Thru	Right	Total	
AM	8	0	11	0	17	AM
NOON	0	0	0	0	0	NOON
PM	6	0	4	0	23	PM

EASTBOUND — Lenwood Rd

AM	NOON	PM	
153	0	256	⇦
0	0	0	↩ 0
1	0	6	↱ 0
148	0	173	→ 2
10	0	13	↳ 0

WESTBOUND — Lenwood Rd

PM	NOON	AM	
17	0	16	0 ↰
244	0	139	2 ←
79	0	43	1 ↶
1	0	0	0 ↶
223	0	234	⇨

NORTHBOUND — Truck Freightliner Service Point Dwy

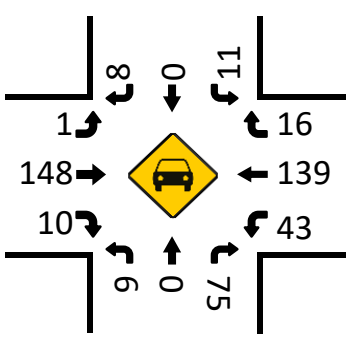
	U-Turn	Left	Thru	Right	Total	
PM	92	0	6	0	45	PM
NOON	0	0	0	0	0	NOON
AM	53	0	6	0	75	AM

CONTROL

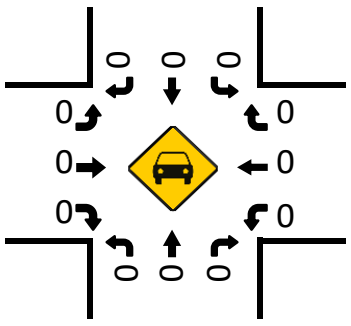
1-Way Stop(NB)

TEV	457 AM	0 NOON	594 PM
PHF	0.94		0.89

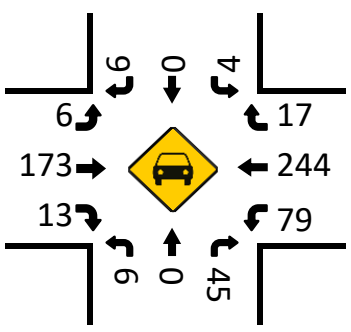
Totals (AM)



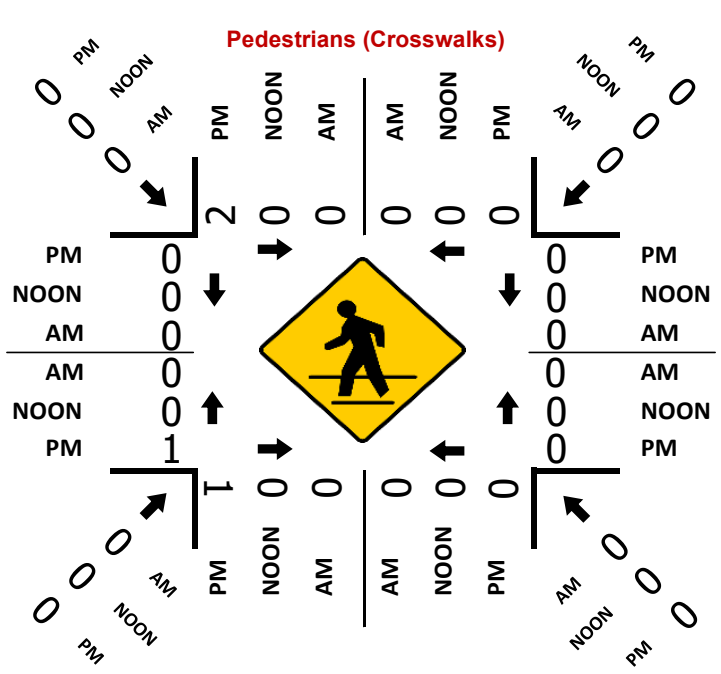
Totals (NOON)



Totals (PM)



Pedestrians (Crosswalks)


PM
NOON
AM
0
0
0
2
0
0
0
0
0
0
0
0

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
Thu, May 11, 23	LOCATION:	Barstow	PROJECT #:	SC4025
	NORTH & SOUTH:	Commerce	LOCATION #:	6
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

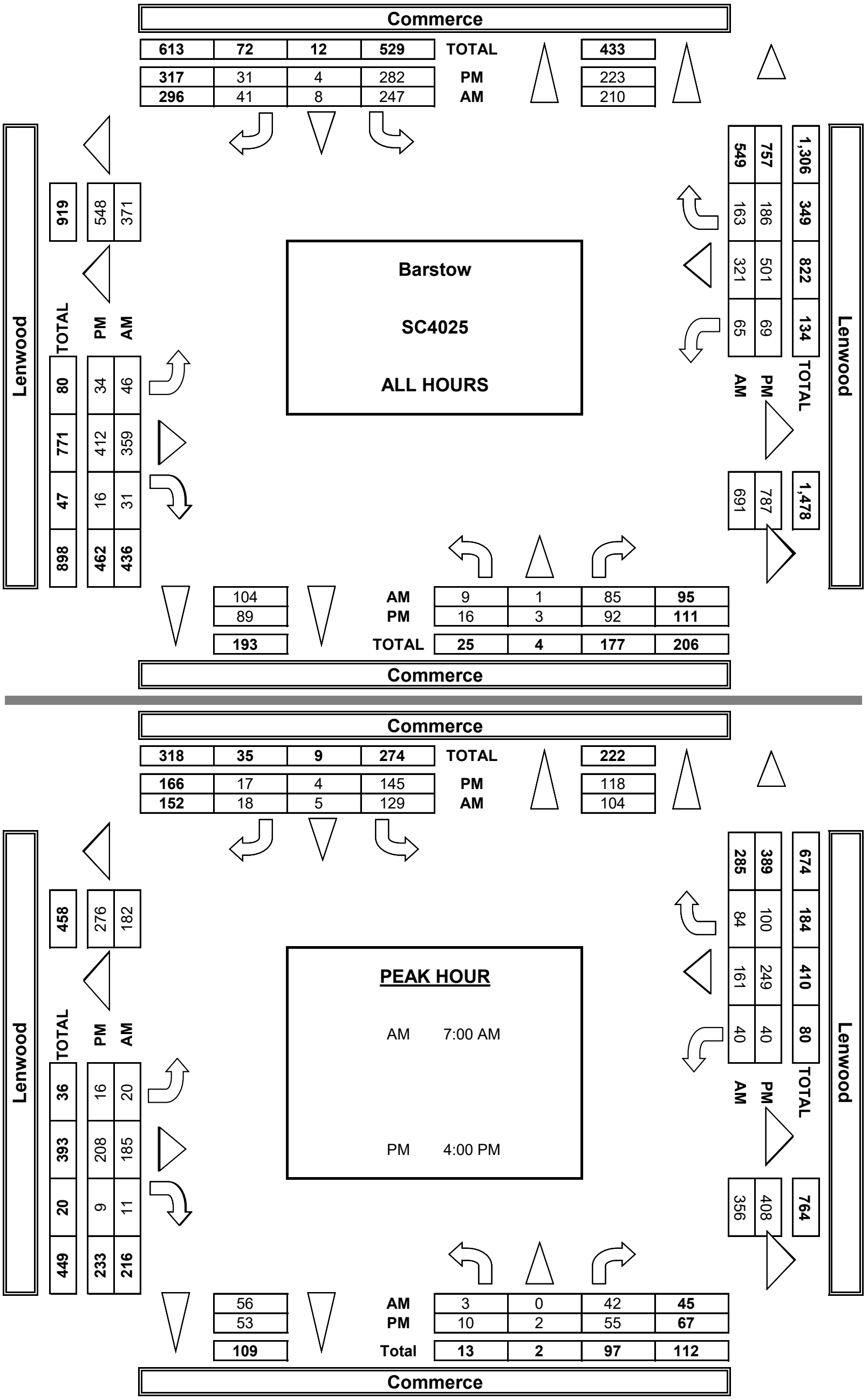
☐ Add U-Turns to Left Turns

	NORTHBOUND Commerce			SOUTHBOUND Commerce			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB	TTL
LANES:	1	1	1	1.5	0.5	1	1	2	0	1	2.5	0.5		0	0	0	0	
7:00 AM	2	0	6	31	1	9	5	49	5	10	32	25	175	0	0	0	0	0
7:15 AM	1	0	8	37	2	3	4	50	0	8	38	27	178	0	0	0	0	0
7:30 AM	0	0	17	28	0	2	4	42	5	11	36	13	158	0	0	0	0	0
7:45 AM	0	0	11	33	2	4	7	44	1	11	55	19	187	0	0	0	0	0
8:00 AM	1	0	11	24	0	6	7	53	4	9	41	14	170	0	0	0	0	0
8:15 AM	3	0	11	30	1	5	7	37	4	6	37	18	159	0	0	0	0	0
8:30 AM	1	0	10	27	1	6	4	49	5	6	35	28	172	0	0	0	0	0
8:45 AM	1	1	11	37	1	6	8	35	7	4	47	19	177	0	0	0	0	0
AM VOLUMES	9	1	85	247	8	41	46	359	31	65	321	163	1,376	0	0	0	0	0
AM APPROACH %	9%	1%	89%	83%	3%	14%	11%	82%	7%	12%	58%	30%						
AM APP/DEPART	95	/	210	296	/	104	436	/	691	549	/	371	0					
AM BEGIN PEAK HR		7:00 AM																
AM VOLUMES	3	0	42	129	5	18	20	185	11	40	161	84	698					
AM APPROACH %	7%	0%	93%	85%	3%	12%	9%	86%	5%	14%	56%	29%						
AM PEAK HR FACTOR		0.662			0.905			0.915			0.838		0.933					
AM APP/DEPART	45	/	104	152	/	56	216	/	356	285	/	182	0					
4:00 PM	1	0	13	35	1	5	7	53	3	7	60	26	211	0	0	0	0	0
4:15 PM	2	0	13	36	2	3	0	54	1	11	76	24	222	0	0	0	0	0
4:30 PM	2	2	18	40	0	5	2	46	4	11	67	30	227	0	0	0	0	0
4:45 PM	5	0	11	34	1	4	7	55	1	11	46	20	195	0	0	0	0	0
5:00 PM	1	0	9	34	0	4	3	53	1	9	68	20	202	0	0	0	0	0
5:15 PM	3	1	12	34	0	4	3	61	2	6	59	21	206	0	0	0	1	1
5:30 PM	2	0	9	43	0	3	7	43	3	7	72	24	213	0	0	0	0	0
5:45 PM	0	0	7	26	0	3	5	47	1	7	53	21	170	0	0	0	0	0
PM VOLUMES	16	3	92	282	4	31	34	412	16	69	501	186	1,647	0	0	0	1	1
PM APPROACH %	14%	3%	83%	89%	1%	10%	7%	89%	3%	9%	66%	25%						
PM APP/DEPART	111	/	223	317	/	89	462	/	787	757	/	548	0					
PM BEGIN PEAK HR		4:00 PM																
PM VOLUMES	10	2	55	145	4	17	16	208	9	40	249	100	855					
PM APPROACH %	15%	3%	82%	87%	2%	10%	7%	89%	4%	10%	64%	26%						
PM PEAK HR FACTOR		0.761			0.922			0.925			0.876		0.942					
PM APP/DEPART	67	/	118	166	/	53	233	/	408	389	/	276	0					

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	2	0	2	0	0	2	0	2	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	2	0	2	0	0	2	0	2	0	0	0	0	0
PM	4:00 PM	1	0	1	0	2	1	0	1	0	2	0	0	0	0	0
	4:15 PM	3	2	1	4	10	2	2	1	3	8	1	0	0	1	2
	4:30 PM	5	1	0	4	10	4	1	0	4	9	1	0	0	0	1
	4:45 PM	2	1	1	4	8	2	0	1	4	7	0	1	0	0	1
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	1	0	1	1	3	1	0	1	1	3	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	3	0	3	0	0	3	0	3	0	0	0	0	0
	TOTAL	12	4	7	13	36	10	3	7	12	32	2	1	0	1	4

AimTD LLC

TURNING MOVEMENT COUNTS



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

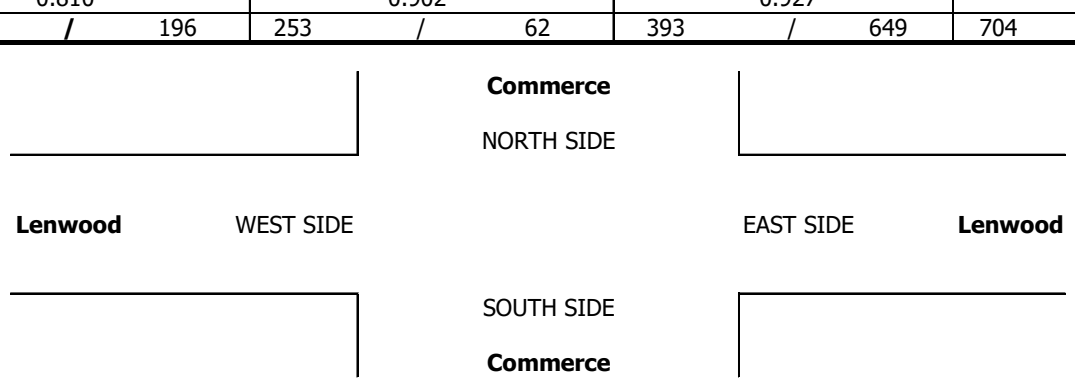
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Commerce	LOCATION #:	6
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

PCE Adjusted	NOTES:								
	Class	1	2	3	4	5	6		
	Factor	1	1.5	2	3	2	2		

AM / PM / MD / OTHER / OTHER

◄ W E ► ▲ N S ▼

	NORTHBOUND Commerce			SOUTHBOUND Commerce			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
LANES:	NL 1	NT 1	NR 1	SL 1.5	ST 0.5	SR 1	EL 1	ET 2	ER 0	WL 1	WT 2.5	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	3	0	6	54	1	13	11	103	6	11	59	41	307					0
7:15 AM	1	0	10	55	2	3	4	110	0	9	86	52	332					0
7:30 AM	0	0	18	53	0	4	6	88	6	14	71	22	281					0
7:45 AM	0	0	13	55	2	4	13	86	1	13	105	29	321					0
8:00 AM	2	0	12	32	0	6	11	114	4	10	82	22	294					0
8:15 AM	4	0	13	42	2	9	15	84	5	7	77	31	286					0
8:30 AM	3	0	10	43	1	8	6	105	5	8	69	49	306					0
8:45 AM	2	1	13	62	1	6	11	63	7	6	90	31	292					0
VOLUMES	14	1	94	395	9	53	77	752	33	77	638	277	2,418	0	0	0	0	0
APPROACH %	13%	1%	86%	87%	2%	12%	9%	87%	4%	8%	64%	28%						
APP/DEPART	109	/	355	456	/	118	862	/	1,241	991	/	705	0					
BEGIN PEAK HR		7:00 AM																
VOLUMES	4	0	47	216	5	24	34	387	13	47	320	144	1,240					
APPROACH %	8%	0%	92%	88%	2%	10%	8%	89%	3%	9%	63%	28%						
PEAK HR FACTOR		0.708			0.907			0.906			0.868		0.933					
APP/DEPART	51	/	178	245	/	64	433	/	650	511	/	348	0					
PM 4:00 PM	1	0	13	56	1	9	7	92	3	8	116	45	351					0
4:15 PM	2	0	14	55	2	3	0	94	1	12	139	45	365					0
4:30 PM	2	2	19	65	0	5	4	82	5	15	139	46	383					0
4:45 PM	7	0	15	49	1	7	9	96	1	15	87	39	325					0
5:00 PM	1	0	13	53	0	7	3	95	3	9	126	36	343					0
5:15 PM	4	1	14	42	0	5	3	113	2	7	108	38	335					0
5:30 PM	2	0	10	71	0	3	7	84	4	9	116	40	344					0
5:45 PM	0	0	7	33	0	3	5	89	1	13	106	44	300					0
VOLUMES	19	3	104	422	4	41	38	743	19	87	936	331	2,745	0	0	0	0	0
APPROACH %	15%	2%	83%	90%	1%	9%	5%	93%	2%	6%	69%	24%						
APP/DEPART	126	/	372	467	/	110	800	/	1,269	1,353	/	995	0					
BEGIN PEAK HR		4:00 PM																
VOLUMES	12	2	61	225	4	24	20	364	10	49	481	174	1,424					
APPROACH %	16%	3%	81%	89%	2%	10%	5%	92%	2%	7%	68%	25%						
PEAK HR FACTOR		0.810			0.902			0.927			0.882		0.929					
APP/DEPART	75	/	196	253	/	62	393	/	649	704	/	517	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Commerce	LOCATION #:	6
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Commerce			SOUTHBOUND Commerce			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1	NT 1	NR 1	SL 1.5	ST 0.5	SR 1	EL 1	ET 2	ER 0	WL 1	WT 2.5	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	1	0	6	19	1	7	2	21	4	9	15	17	102	0	0	0	0	0
	7:15 AM	1	0	7	28	2	3	4	18	0	6	12	14	95	0	0	0	0	0
	7:30 AM	0	0	15	13	0	1	3	18	4	8	18	7	87	0	0	0	0	0
	7:45 AM	0	0	10	20	2	4	4	23	1	10	27	13	114	0	0	0	0	0
	8:00 AM	0	0	10	18	0	6	5	22	4	7	17	9	98	0	0	0	0	0
	8:15 AM	1	0	9	24	0	2	3	13	3	5	15	11	86	0	0	0	0	0
	8:30 AM	0	0	10	17	1	5	3	19	5	4	16	17	97	0	0	0	0	0
	8:45 AM	0	1	8	24	1	6	6	19	7	3	25	13	113	0	0	0	0	0
	VOLUMES	3	1	75	163	7	34	30	153	28	52	145	101	792	0	0	0	0	0
	APPROACH %	4%	1%	95%	80%	3%	17%	14%	73%	13%	17%	49%	34%						
	APP/DEPART	79	/	132	204	/	87	211	/	391	298	/	182	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	2	0	38	80	5	15	13	80	9	33	72	51	398					
	APPROACH %	5%	0%	95%	80%	5%	15%	13%	78%	9%	21%	46%	33%						
	PEAK HR FACTOR		0.667			0.758			0.911			0.780		0.873					
	APP/DEPART	40	/	64	100	/	47	102	/	198	156	/	89	0					
PM	4:00 PM	1	0	13	23	1	3	7	32	3	6	31	16	136	0	0	0	0	0
	4:15 PM	2	0	12	25	2	3	0	31	1	10	43	13	142	0	0	0	0	0
	4:30 PM	2	2	16	25	0	5	1	28	3	9	31	21	143	0	0	0	0	0
	4:45 PM	4	0	9	26	1	2	3	34	1	8	24	9	121	0	0	0	0	0
	5:00 PM	1	0	6	24	0	2	3	31	0	9	37	11	124	0	0	0	0	0
	5:15 PM	2	1	11	29	0	3	3	34	2	5	33	12	135	0	0	0	1	1
	5:30 PM	2	0	8	27	0	3	7	21	2	6	49	16	141	0	0	0	0	0
	5:45 PM	0	0	7	22	0	3	5	25	1	4	26	8	101	0	0	0	0	0
	VOLUMES	14	3	82	201	4	24	29	236	13	57	274	106	1,044	0	0	0	1	1
	APPROACH %	14%	3%	83%	88%	2%	10%	10%	85%	5%	13%	63%	24%						
	APP/DEPART	99	/	138	229	/	74	278	/	520	438	/	312	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	9	2	50	99	4	13	11	125	8	33	129	59	542					
	APPROACH %	15%	3%	82%	85%	3%	11%	8%	87%	6%	15%	58%	27%						
	PEAK HR FACTOR		0.763			0.967			0.857			0.837		0.948					
	APP/DEPART	61	/	72	116	/	45	144	/	274	221	/	151	0					

Commerce

NORTH SIDE

Lenwood WEST SIDE EAST SIDE **Lenwood**

SOUTH SIDE

Commerce

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

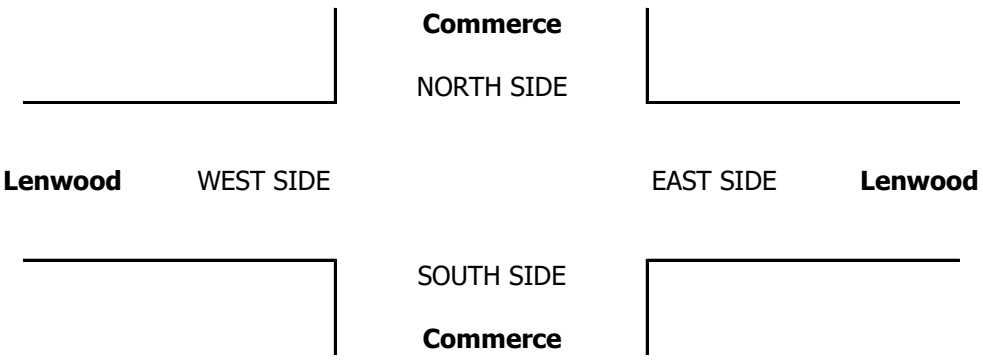
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Commerce	LOCATION #:	6
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 2:	NOTES:
2-AXLE WORK VEHICLES/ TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND Commerce			SOUTHBOUND Commerce			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1	NT 1	NR 1	SL 1.5	ST 0.5	SR 1	EL 1	ET 2	ER 0	WL 1	WT 2.5	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	1	0	0	0	1	0	1	4	0	7	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	2	0	2	2	0	6	0	0	0	0	0
	7:30 AM	0	0	2	1	0	0	0	0	1	2	1	2	9	0	0	0	0	0
	7:45 AM	0	0	0	2	0	0	0	0	0	0	1	0	3	0	0	0	0	0
	8:00 AM	1	0	1	2	0	0	0	0	0	2	4	0	10	0	0	0	0	0
	8:15 AM	2	0	1	0	1	0	0	1	1	1	3	0	10	0	0	0	0	0
	8:30 AM	0	0	0	2	0	0	0	2	0	1	2	1	8	0	0	0	0	0
	8:45 AM	1	0	2	1	0	0	0	0	0	0	0	0	4	0	0	0	0	0
	VOLUMES	4	0	6	9	1	0	0	6	2	9	17	3	57	0	0	0	0	0
	APPROACH %	40%	0%	60%	90%	10%	0%	0%	75%	25%	31%	59%	10%						
	APP/DEPART	10	/	3	10	/	12	8	/	21	29	/	21	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	0	0	2	4	0	0	0	3	1	5	8	2	25					
	APPROACH %	0%	0%	100%	100%	0%	0%	0%	75%	25%	33%	53%	13%						
	PEAK HR FACTOR		0.250			0.500			0.500			0.750		0.694					
	APP/DEPART	2	/	2	4	/	6	4	/	9	15	/	8	0					
PM	4:00 PM	0	0	0	2	0	0	0	2	0	1	0	0	5	0	0	0	0	0
	4:15 PM	0	0	1	2	0	0	0	3	0	1	0	1	8	0	0	0	0	0
	4:30 PM	0	0	2	2	0	0	0	0	1	0	0	1	6	0	0	0	0	0
	4:45 PM	0	0	0	1	0	0	4	0	0	1	2	2	10	0	0	0	0	0
	5:00 PM	0	0	1	1	0	1	0	1	0	0	1	1	6	0	0	0	0	0
	5:15 PM	1	0	0	1	0	1	0	1	0	0	2	1	7	0	0	0	0	0
	5:30 PM	0	0	0	3	0	0	0	1	1	0	1	0	6	0	0	0	0	0
	5:45 PM	0	0	0	1	0	0	0	0	0	0	1	2	4	0	0	0	0	0
	VOLUMES	1	0	4	13	0	2	4	8	2	3	7	8	52	0	0	0	0	0
	APPROACH %	20%	0%	80%	87%	0%	13%	29%	57%	14%	17%	39%	44%						
	APP/DEPART	5	/	12	15	/	5	14	/	25	18	/	10	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	0	0	3	7	0	0	4	5	1	3	2	4	29					
	APPROACH %	0%	0%	100%	100%	0%	0%	40%	50%	10%	33%	22%	44%						
	PEAK HR FACTOR		0.375			0.875			0.625			0.450		0.725					
	APP/DEPART	3	/	8	7	/	4	10	/	15	9	/	2	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

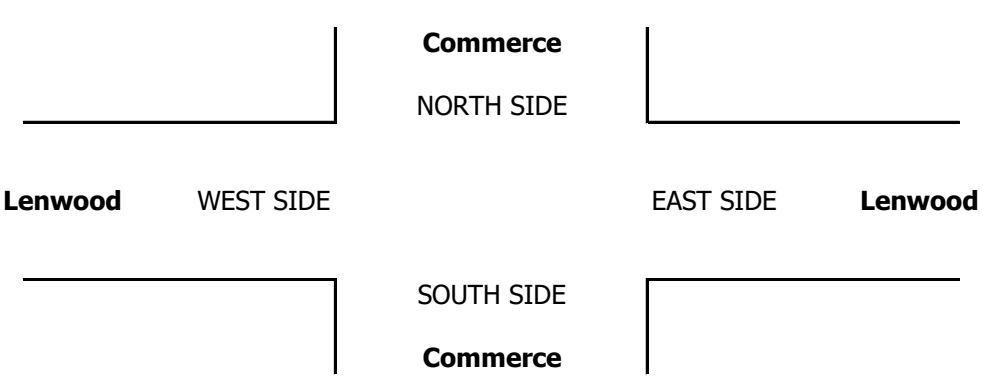
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Commerce	LOCATION #:	6
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 3:	NOTES:
3-AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Commerce			SOUTHBOUND Commerce			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1	NT 1	NR 1	SL 1.5	ST 0.5	SR 1	EL 1	ET 2	ER 0	WL 1	WT 2.5	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	7:30 AM	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	7:45 AM	0	0	0	1	0	0	0	0	0	0	2	1	4	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	1	0	0	0	2	3	0	0	0	0	0
	8:15 AM	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0
	8:30 AM	0	0	0	1	0	0	0	0	0	1	1	0	3	0	0	0	0	0
	8:45 AM	0	0	1	0	0	0	0	3	0	0	0	0	4	0	0	0	0	0
	VOLUMES	0	0	1	3	0	1	0	6	0	1	3	4	19	0	0	0	0	0
	APPROACH %	0%	0%	100%	75%	0%	25%	0%	100%	0%	13%	38%	50%						
	APP/DEPART	1	/	4	4	/	1	6	/	10	8	/	4	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	0	0	0	2	0	0	0	2	0	0	2	1	7					
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	67%	33%						
	PEAK HR FACTOR		0.000			0.500			0.500			0.250		0.438					
	APP/DEPART	0	/	1	2	/	0	2	/	4	3	/	2	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	2	0	0	2	0	4	0	0	0	0	0
	4:30 PM	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:45 PM	0	0	0	0	0	1	0	0	0	1	0	0	2	0	0	0	0	0
	5:00 PM	0	0	1	0	0	0	0	1	0	0	2	1	5	0	0	0	0	0
	5:15 PM	0	0	0	1	0	0	0	1	0	0	0	0	2	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
	VOLUMES	0	0	1	2	0	1	0	7	0	1	6	1	19	0	0	0	0	0
	APPROACH %	0%	0%	100%	67%	0%	33%	0%	100%	0%	13%	75%	13%						
	APP/DEPART	1	/	1	3	/	1	7	/	10	8	/	7	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	0	0	0	1	0	1	0	2	0	1	3	0	8					
	APPROACH %	0%	0%	0%	50%	0%	50%	0%	100%	0%	25%	75%	0%						
	PEAK HR FACTOR		0.000			0.500			0.250			0.500		0.500					
	APP/DEPART	0	/	0	2	/	1	2	/	3	4	/	4	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

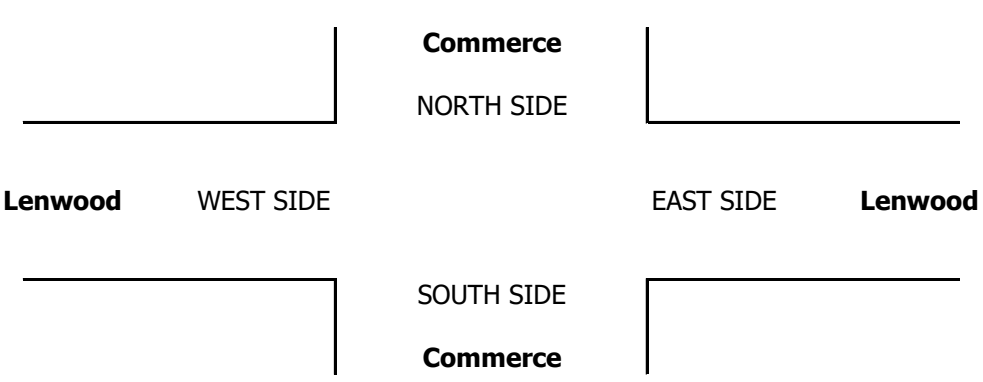
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Commerce	LOCATION #:	6
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 4:	NOTES:
4 OR MORE AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Commerce			SOUTHBOUND Commerce			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1	NT 1	NR 1	SL 1.5	ST 0.5	SR 1	EL 1	ET 2	ER 0	WL 1	WT 2.5	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	11	0	2	3	26	0	0	12	8	62	0	0	0	0	0
	7:15 AM	0	0	1	9	0	0	0	29	0	0	23	12	74	0	0	0	0	0
	7:30 AM	0	0	0	10	0	1	1	22	0	1	17	4	56	0	0	0	0	0
	7:45 AM	0	0	1	10	0	0	3	21	0	1	22	4	62	0	0	0	0	0
	8:00 AM	0	0	0	3	0	0	2	30	0	0	19	3	57	0	0	0	0	0
	8:15 AM	0	0	0	6	0	1	4	23	0	0	19	6	59	0	0	0	0	0
	8:30 AM	1	0	0	7	0	1	1	27	0	0	16	10	63	0	0	0	0	0
	8:45 AM	0	0	0	12	0	0	1	12	0	1	21	6	53	0	0	0	0	0
	VOLUMES	1	0	2	68	0	5	15	190	0	3	149	53	486	0	0	0	0	0
	APPROACH %	33%	0%	67%	93%	0%	7%	7%	93%	0%	1%	73%	26%						
	APP/DEPART	3	/	68	73	/	3	205	/	260	205	/	155	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	0	0	2	40	0	3	7	98	0	2	74	28	254					
	APPROACH %	0%	0%	100%	93%	0%	7%	7%	93%	0%	2%	71%	27%						
	PEAK HR FACTOR		0.500			0.827			0.905			0.743		0.858					
	APP/DEPART	2	/	35	43	/	2	105	/	140	104	/	77	0					
PM	4:00 PM	0	0	0	10	0	2	0	19	0	0	27	9	67	0	0	0	0	0
	4:15 PM	0	0	0	9	0	0	0	18	0	0	30	10	67	0	0	0	0	0
	4:30 PM	0	0	0	11	0	0	1	18	0	2	36	7	75	0	0	0	0	0
	4:45 PM	1	0	2	7	0	1	0	20	0	1	20	9	61	0	0	0	0	0
	5:00 PM	0	0	1	9	0	1	0	20	1	0	27	7	66	0	0	0	0	0
	5:15 PM	0	0	1	3	0	0	0	25	0	0	24	8	61	0	0	0	0	0
	5:30 PM	0	0	0	13	0	0	0	19	0	1	21	8	62	0	0	0	0	0
	5:45 PM	0	0	0	3	0	0	0	20	0	3	26	11	63	0	0	0	0	0
	VOLUMES	1	0	4	65	0	4	1	159	1	7	211	69	522	0	0	0	0	0
	APPROACH %	20%	0%	80%	94%	0%	6%	1%	99%	1%	2%	74%	24%						
	APP/DEPART	5	/	70	69	/	8	161	/	228	287	/	216	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	1	0	2	37	0	3	1	75	0	3	113	35	270					
	APPROACH %	33%	0%	67%	93%	0%	8%	1%	99%	0%	2%	75%	23%						
	PEAK HR FACTOR		0.250			0.833			0.950			0.839		0.900					
	APP/DEPART	3	/	36	40	/	3	76	/	114	151	/	117	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

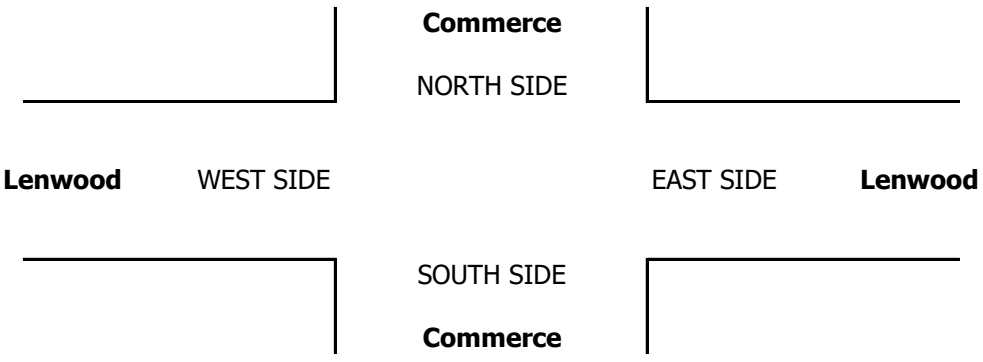
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Commerce	LOCATION #:	6
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Commerce			SOUTHBOUND Commerce			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1	NT 1	NR 1	SL 1.5	ST 0.5	SR 1	EL 1	ET 2	ER 0	WL 1	WT 2.5	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	1	1	0	0	1	0	3	0	0	0	0	0
	VOLUMES	1	0	1	0	0	0	1	2	1	0	3	0	9	0	0	0	0	0
	APPROACH %	50%	0%	50%	0%	0%	0%	25%	50%	25%	0%	100%	0%						
	APP/DEPART	2	/	1	0	/	1	4	/	3	3	/	4	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	1	0	0	0	0	0	0	1	1	0	2	0	5					
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	50%	50%	0%	100%	0%						
	PEAK HR FACTOR		0.250			0.000			0.500			0.500		0.625					
	APP/DEPART	1	/	0	0	/	1	2	/	1	2	/	3	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	5:30 PM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	1	0	0	0	0	0	0	1	1	1	4	0	0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	33%	33%	33%						
	APP/DEPART	1	/	1	0	/	1	0	/	1	3	/	1	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	1	1	2					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	50%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.500		0.500					
	APP/DEPART	0	/	1	0	/	0	0	/	0	2	/	1	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

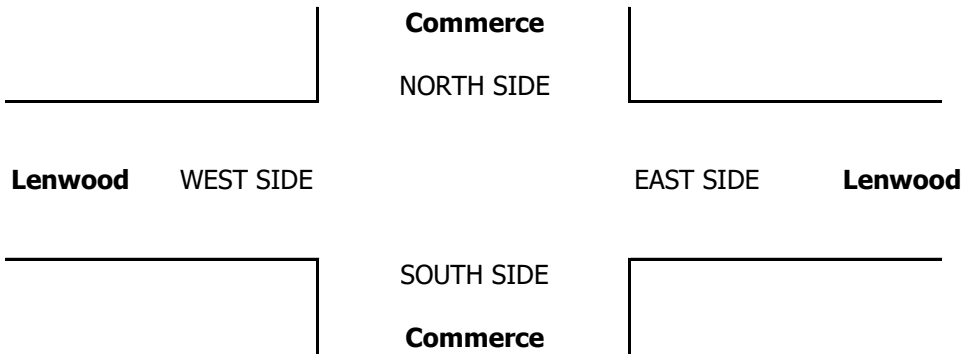
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	Commerce	LOCATION #:	6
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND Commerce			SOUTHBOUND Commerce			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1	NT 1	NR 1	SL 1.5	ST 0.5	SR 1	EL 1	ET 2	ER 0	WL 1	WT 2.5	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	7:30 AM	0	0	0	3	0	0	0	1	0	0	0	0	4	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0	0	0
	8:00 AM	0	0	0	1	0	0	0	0	0	0	1	0	2	0	0	0	0	0
	8:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	4	0	1	0	2	0	0	4	2	13	0	0	0	0	0
	APPROACH %	0%	0%	0%	80%	0%	20%	0%	100%	0%	0%	67%	33%						
	APP/DEPART	0	/	2	5	/	0	2	/	6	6	/	5	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	0	0	0	3	0	0	0	1	0	0	3	2	9					
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	60%	40%						
	PEAK HR FACTOR		0.000			0.250			0.250			0.417		0.563					
	APP/DEPART	0	/	2	3	/	0	1	/	4	5	/	3	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	1	0	0	0	2	0	0	2	1	6	0	0	0	0	0
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	67%	33%						
	APP/DEPART	0	/	1	1	/	0	2	/	3	3	/	2	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	0	0	0	1	0	0	0	1	0	0	1	1	4					
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	50%	50%						
	PEAK HR FACTOR		0.000			0.250			0.250			0.250		0.500					
	APP/DEPART	0	/	1	1	/	0	1	/	2	2	/	1	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

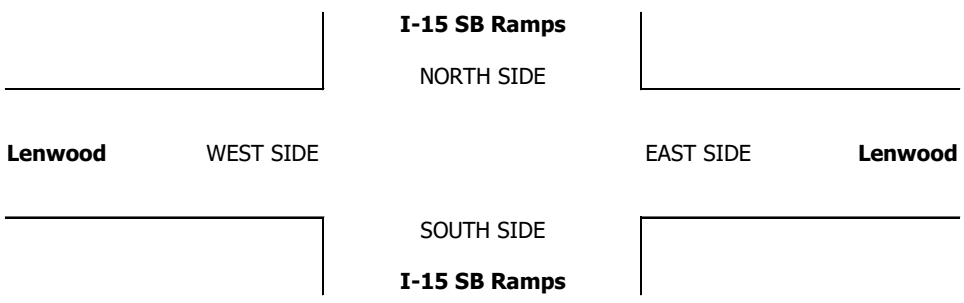
DATE:				
Thu, May 11, 23	LOCATION:	Barstow	PROJECT #:	SC4025
	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	7
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER

☑ Add U-Turns to Left Turns

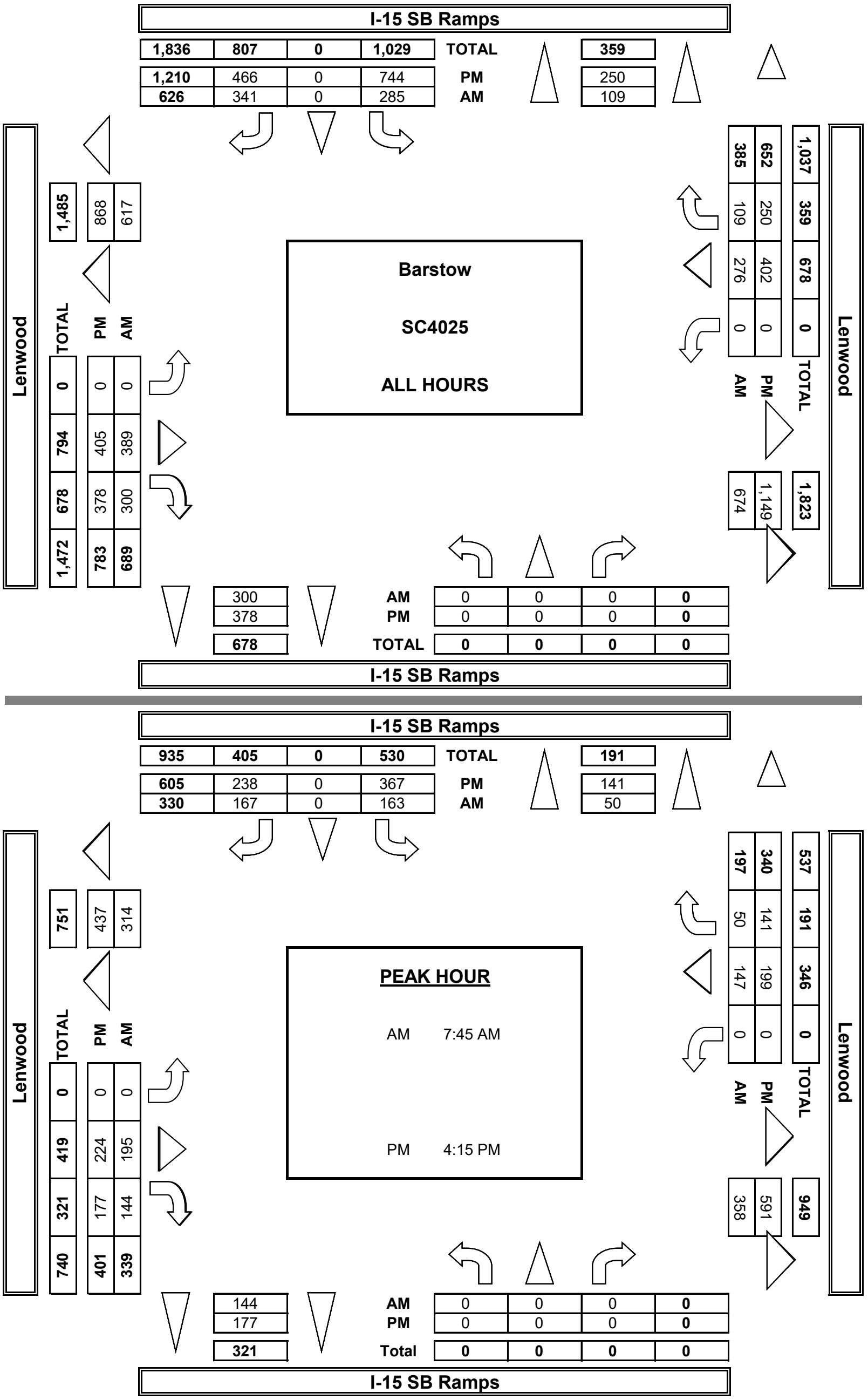
	NORTHBOUND I-15 SB Ramps			SOUTHBOUND I-15 SB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB	TTL
LANES:	X	X	X	2	X	1	X	2	1	X	2	1		0	0	0	0	
AM 7:00 AM	0	0	0	32	0	42	0	49	37	0	36	20	216	0	0	0	0	0
7:15 AM	0	0	0	22	0	43	0	48	47	0	36	9	205	0	0	0	0	0
7:30 AM	0	0	0	34	0	36	0	49	38	0	28	14	199	0	0	0	0	0
7:45 AM	0	0	0	47	0	53	0	55	32	0	43	13	243	0	0	0	0	0
8:00 AM	0	0	0	38	0	37	0	48	40	0	34	11	208	0	0	0	0	0
8:15 AM	0	0	0	43	0	36	0	42	36	0	34	14	205	0	0	0	0	0
8:30 AM	0	0	0	35	0	41	0	50	36	0	36	12	210	0	0	0	0	0
8:45 AM	0	0	0	34	0	53	0	48	34	0	29	16	214	0	0	0	0	0
VOLUMES	0	0	0	285	0	341	0	389	300	0	276	109	1,700	0	0	0	0	0
APPROACH %	0%	0%	0%	46%	0%	54%	0%	56%	44%	0%	72%	28%						
APP/DEPART	0	/	109	626	/	300	689	/	674	385	/	617	0					
BEGIN PEAK HR		7:45 AM																
VOLUMES	0	0	0	163	0	167	0	195	144	0	147	50	866					
APPROACH %	0%	0%	0%	49%	0%	51%	0%	58%	42%	0%	75%	25%						
PEAK HR FACTOR		0.000			0.825			0.963			0.879		0.891					
APP/DEPART	0	/	50	330	/	144	339	/	358	197	/	314	0					
PM 4:00 PM	0	0	0	84	0	62	0	51	50	0	49	32	328	0	0	0	0	0
4:15 PM	0	0	0	82	0	63	0	63	38	0	60	44	350	0	0	0	0	0
4:30 PM	0	0	0	104	0	65	0	47	57	0	47	41	361	0	0	0	0	0
4:45 PM	0	0	0	83	0	52	0	55	45	0	42	24	301	0	0	0	0	0
5:00 PM	0	0	0	98	0	58	0	59	37	0	50	32	334	0	0	0	0	0
5:15 PM	0	0	0	91	0	58	0	57	50	0	49	21	326	0	0	0	0	0
5:30 PM	0	0	0	90	0	57	0	36	59	0	67	29	338	0	0	0	0	0
5:45 PM	0	0	0	112	0	51	0	37	42	0	38	27	307	0	0	0	0	0
VOLUMES	0	0	0	744	0	466	0	405	378	0	402	250	2,645	0	0	0	0	0
APPROACH %	0%	0%	0%	61%	0%	39%	0%	52%	48%	0%	62%	38%						
APP/DEPART	0	/	250	1,210	/	378	783	/	1,149	652	/	868	0					
BEGIN PEAK HR		4:15 PM																
VOLUMES	0	0	0	367	0	238	0	224	177	0	199	141	1,346					
APPROACH %	0%	0%	0%	61%	0%	39%	0%	56%	44%	0%	59%	41%						
PEAK HR FACTOR		0.000			0.895			0.964			0.817		0.932					
APP/DEPART	0	/	141	605	/	177	401	/	591	340	/	437	0					



		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	4	0	0	0	4	4	0	0	0	4	0	0	0	0	0
	4:15 PM	3	0	0	0	3	2	0	0	0	2	1	0	0	0	1
	4:30 PM	3	0	0	0	3	2	0	0	0	2	1	0	0	0	1
	4:45 PM	3	0	0	0	3	3	0	0	0	3	0	0	0	0	0
	5:00 PM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
	TOTAL	15	0	0	0	15	13	0	0	0	13	2	0	0	0	2

AimTD LLC

TURNING MOVEMENT COUNTS



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	7
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

PCE Adjusted	NOTES:									AM / PM / MD / OTHER / OTHER
	Class	1	2	3	4	5	6			
	Factor	1	1.5	2	3	2	2			

▲ N ◄ W E ► S ▼

		NORTHBOUND I-15 SB Ramps			SOUTHBOUND I-15 SB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 2	ST X	SR 1	EL X	ET 2	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	38	0	68	0	83	80	0	52	45	364					0
	7:15 AM	0	0	0	31	0	87	0	95	81	0	65	22	380					0
	7:30 AM	0	0	0	48	0	65	0	88	71	0	45	27	343					0
	7:45 AM	0	0	0	60	0	101	0	93	60	0	62	23	399					0
	8:00 AM	0	0	0	52	0	61	0	85	73	0	57	25	352					0
	8:15 AM	0	0	0	52	0	68	0	73	65	0	60	28	345					0
	8:30 AM	0	0	0	51	0	83	0	93	65	0	53	22	367					0
	8:45 AM	0	0	0	40	0	98	0	77	60	0	42	24	341					0
	VOLUMES	0	0	0	372	0	630	0	686	553	0	434	216	2,889	0	0	0	0	0
	APPROACH %	0%	0%	0%	37%	0%	63%	0%	55%	45%	0%	67%	33%						
	APP/DEPART	0	/	216	1,001	/	553	1,239	/	1,058	650	/	1,064	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	0	215	0	312	0	344	263	0	231	98	1,462					
	APPROACH %	0%	0%	0%	41%	0%	59%	0%	57%	43%	0%	70%	30%						
	PEAK HR FACTOR		0.000			0.818			0.960			0.940		0.917					
	APP/DEPART	0	/	98	527	/	263	607	/	559	329	/	543	0					
PM	4:00 PM	0	0	0	110	0	121	0	78	83	0	67	44	503					0
	4:15 PM	0	0	0	122	0	115	0	98	62	0	99	60	556					0
	4:30 PM	0	0	0	137	0	128	0	73	94	0	71	53	554					0
	4:45 PM	0	0	0	100	0	93	0	84	76	0	71	28	451					0
	5:00 PM	0	0	0	129	0	101	0	111	49	0	79	41	508					0
	5:15 PM	0	0	0	128	0	106	0	89	80	0	69	26	496					0
	5:30 PM	0	0	0	120	0	96	0	62	102	0	102	35	517					0
	5:45 PM	0	0	0	132	0	102	0	57	71	0	56	38	455					0
	VOLUMES	0	0	0	976	0	860	0	651	615	0	613	324	4,037	0	0	0	0	0
	APPROACH %	0%	0%	0%	53%	0%	47%	0%	51%	49%	0%	65%	35%						
	APP/DEPART	0	/	324	1,836	/	615	1,266	/	1,627	936	/	1,472	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	487	0	436	0	365	280	0	319	182	2,068					
	APPROACH %	0%	0%	0%	53%	0%	47%	0%	57%	43%	0%	64%	36%						
	PEAK HR FACTOR		0.000			0.874			0.971			0.787		0.931					
	APP/DEPART	0	/	182	923	/	280	645	/	852	501	/	755	0					

I-15 SB Ramps

NORTH SIDE

Lenwood WEST SIDE EAST SIDE **Lenwood**

SOUTH SIDE

I-15 SB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	7
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER

◄ W ▲ N S ▼ E ►

		NORTHBOUND I-15 SB Ramps			SOUTHBOUND I-15 SB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 2	ST X	SR 1	EL X	ET 2	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	29	0	29	0	31	15	0	24	7	135	0	0	0	0	0
	7:15 AM	0	0	0	17	0	20	0	24	29	0	18	2	110	0	0	0	0	0
	7:30 AM	0	0	0	27	0	20	0	27	19	0	16	7	116	0	0	0	0	0
	7:45 AM	0	0	0	40	0	27	0	34	18	0	30	8	157	0	0	0	0	0
	8:00 AM	0	0	0	30	0	23	0	28	22	0	17	4	124	0	0	0	0	0
	8:15 AM	0	0	0	38	0	19	0	26	20	0	19	7	129	0	0	0	0	0
	8:30 AM	0	0	0	27	0	19	0	26	20	0	24	7	123	0	0	0	0	0
	8:45 AM	0	0	0	31	0	30	0	30	20	0	21	12	144	0	0	0	0	0
	VOLUMES	0	0	0	239	0	187	0	226	163	0	169	54	1,038	0	0	0	0	0
	APPROACH %	0%	0%	0%	56%	0%	44%	0%	58%	42%	0%	76%	24%						
	APP/DEPART	0	/	54	426	/	163	389	/	465	223	/	356	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	0	135	0	88	0	114	80	0	90	26	533					
	APPROACH %	0%	0%	0%	61%	0%	39%	0%	59%	41%	0%	78%	22%						
	PEAK HR FACTOR		0.000			0.832			0.933			0.763		0.849					
	APP/DEPART	0	/	26	223	/	80	194	/	249	116	/	178	0					
PM	4:00 PM	0	0	0	69	0	31	0	36	32	0	39	26	233	0	0	0	0	0
	4:15 PM	0	0	0	59	0	33	0	43	23	0	38	34	230	0	0	0	0	0
	4:30 PM	0	0	0	84	0	33	0	31	38	0	34	34	254	0	0	0	0	0
	4:45 PM	0	0	0	72	0	29	0	40	29	0	26	22	218	0	0	0	0	0
	5:00 PM	0	0	0	78	0	35	0	31	30	0	34	26	234	0	0	0	0	0
	5:15 PM	0	0	0	70	0	32	0	40	34	0	37	17	230	0	0	0	0	0
	5:30 PM	0	0	0	73	0	37	0	22	34	0	49	26	241	0	0	0	0	0
	5:45 PM	0	0	0	99	0	23	0	26	27	0	29	21	225	0	0	0	0	0
	VOLUMES	0	0	0	604	0	253	0	269	247	0	286	206	1,865	0	0	0	0	0
	APPROACH %	0%	0%	0%	70%	0%	30%	0%	52%	48%	0%	58%	42%						
	APP/DEPART	0	/	206	857	/	247	516	/	873	492	/	539	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	293	0	130	0	145	120	0	132	116	936					
	APPROACH %	0%	0%	0%	69%	0%	31%	0%	55%	45%	0%	53%	47%						
	PEAK HR FACTOR		0.000			0.904			0.960			0.861		0.921					
	APP/DEPART	0	/	116	423	/	120	265	/	438	248	/	262	0					

I-15 SB Ramps

NORTH SIDE

Lenwood WEST SIDE EAST SIDE **Lenwood**

SOUTH SIDE

I-15 SB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

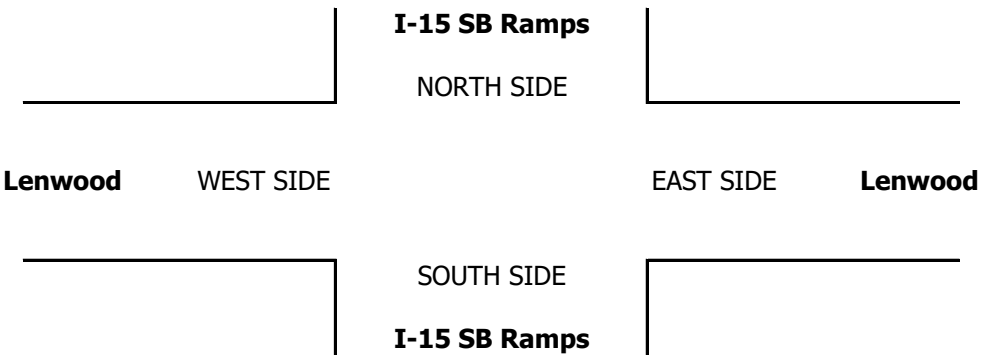
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	7
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 2:	NOTES:
2-AXLE WORK VEHICLES/ TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND I-15 SB Ramps			SOUTHBOUND I-15 SB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
LANES:	NL X	NT X	NR X	SL 2	ST X	SR 1	EL X	ET 2	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
7:00 AM	0	0	0	0	0	0	0	1	1	0	5	1	8	0	0	0	0	0
7:15 AM	0	0	0	0	0	1	0	1	1	0	4	0	7	0	0	0	0	0
7:30 AM	0	0	0	0	0	2	0	2	1	0	5	0	10	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	2	0	0	3	0	5	0	0	0	0	0
8:00 AM	0	0	0	1	0	2	0	2	1	0	6	0	12	0	0	0	0	0
8:15 AM	0	0	0	0	0	1	0	0	2	0	3	0	6	0	0	0	0	0
8:30 AM	0	0	0	0	0	1	0	2	2	0	4	0	9	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	2	1	0	2	0	5	0	0	0	0	0
AM VOLUMES	0	0	0	1	0	7	0	12	9	0	32	1	62	0	0	0	0	0
AM APPROACH %	0%	0%	0%	13%	0%	88%	0%	57%	43%	0%	97%	3%						
AM APP/DEPART	0	/	1	8	/	9	21	/	13	33	/	39	0					
AM BEGIN PEAK HR		7:45 AM																
AM VOLUMES	0	0	0	1	0	4	0	6	5	0	16	0	32					
AM APPROACH %	0%	0%	0%	20%	0%	80%	0%	55%	45%	0%	100%	0%						
AM PEAK HR FACTOR		0.000			0.417			0.688			0.667		0.667					
AM APP/DEPART	0	/	0	5	/	5	11	/	7	16	/	20	0					
4:00 PM	0	0	0	2	0	1	0	2	2	0	0	0	7	0	0	0	0	0
4:15 PM	0	0	0	3	0	4	0	2	4	0	2	2	17	0	0	0	0	0
4:30 PM	0	0	0	3	0	1	0	3	1	0	1	0	9	0	0	0	0	0
4:45 PM	0	0	0	2	0	3	0	0	1	0	2	0	8	0	0	0	0	0
5:00 PM	0	0	0	6	0	1	0	3	0	0	1	1	12	0	0	0	0	0
5:15 PM	0	0	0	3	0	2	0	1	1	0	3	1	11	0	0	0	0	0
5:30 PM	0	0	0	2	0	1	0	0	4	0	0	0	7	0	0	0	0	0
5:45 PM	0	0	0	3	0	2	0	0	1	0	0	1	7	0	0	0	0	0
PM VOLUMES	0	0	0	24	0	15	0	11	14	0	9	5	78	0	0	0	0	0
PM APPROACH %	0%	0%	0%	62%	0%	38%	0%	44%	56%	0%	64%	36%						
PM APP/DEPART	0	/	5	39	/	14	25	/	35	14	/	24	0					
PM BEGIN PEAK HR		4:15 PM																
PM VOLUMES	0	0	0	14	0	9	0	8	6	0	6	3	46					
PM APPROACH %	0%	0%	0%	61%	0%	39%	0%	57%	43%	0%	67%	33%						
PM PEAK HR FACTOR		0.000			0.821			0.583			0.563		0.676					
PM APP/DEPART	0	/	3	23	/	6	14	/	22	9	/	15	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

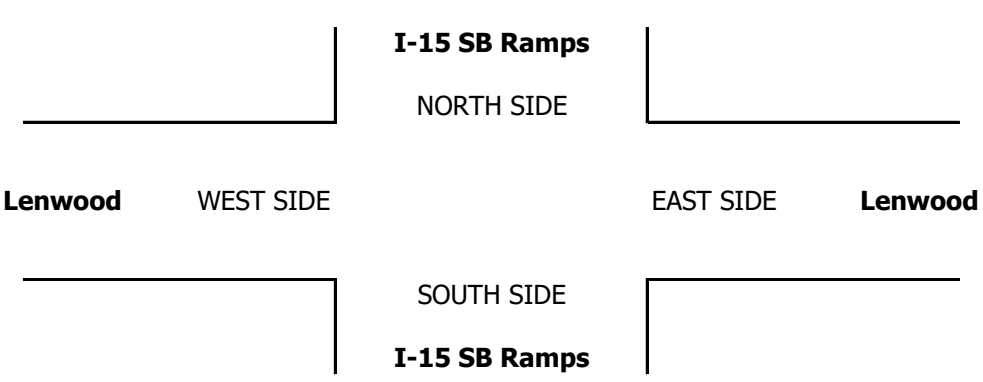
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	7
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 3:	NOTES:
3-AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND I-15 SB Ramps			SOUTHBOUND I-15 SB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 2	ST X	SR 1	EL X	ET 2	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	2	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	1	0	0	1	2	0	0	0	0	0
	7:45 AM	0	0	0	1	0	1	0	1	0	0	2	0	5	0	0	0	0	0
	8:00 AM	0	0	0	1	0	1	0	0	1	0	1	0	4	0	0	0	0	0
	8:15 AM	0	0	0	1	0	1	0	0	0	0	0	0	2	0	0	0	0	0
	8:30 AM	0	0	0	0	0	1	0	1	0	0	1	0	3	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	3	1	0	0	0	4	0	0	0	0	0
	VOLUMES	0	0	0	3	0	4	0	6	4	0	4	2	23	0	0	0	0	0
	APPROACH %	0%	0%	0%	43%	0%	57%	0%	60%	40%	0%	67%	33%						
	APP/DEPART	0	/	2	7	/	4	10	/	9	6	/	8	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	0	3	0	4	0	2	1	0	4	0	14					
	APPROACH %	0%	0%	0%	43%	0%	57%	0%	67%	33%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.875			0.750			0.500		0.700					
	APP/DEPART	0	/	0	7	/	1	3	/	5	4	/	8	0					
PM	4:00 PM	0	0	0	1	0	2	0	0	0	0	0	0	3	0	0	0	0	0
	4:15 PM	0	0	0	2	0	2	0	2	0	0	1	0	7	0	0	0	0	0
	4:30 PM	0	0	0	3	0	0	0	1	0	0	0	2	6	0	0	0	0	0
	4:45 PM	0	0	0	2	0	1	0	0	0	0	0	0	3	0	0	0	0	0
	5:00 PM	0	0	0	0	0	2	0	0	2	0	1	2	7	0	0	0	0	0
	5:15 PM	0	0	0	1	0	0	0	1	1	0	0	2	5	0	0	0	0	0
	5:30 PM	0	0	0	1	0	0	0	1	0	0	1	0	3	0	0	0	0	0
	5:45 PM	0	0	0	2	0	1	0	2	0	0	0	0	5	0	0	0	0	0
	VOLUMES	0	0	0	12	0	8	0	7	3	0	3	6	39	0	0	0	0	0
	APPROACH %	0%	0%	0%	60%	0%	40%	0%	70%	30%	0%	33%	67%						
	APP/DEPART	0	/	6	20	/	3	10	/	19	9	/	11	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	7	0	5	0	3	2	0	2	4	23					
	APPROACH %	0%	0%	0%	58%	0%	42%	0%	60%	40%	0%	33%	67%						
	PEAK HR FACTOR		0.000			0.750			0.625			0.500		0.821					
	APP/DEPART	0	/	4	12	/	2	5	/	10	6	/	7	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

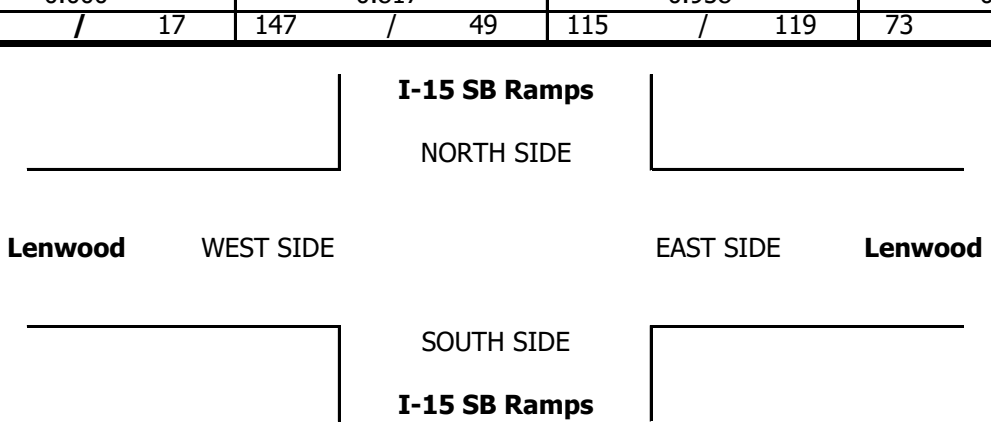
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	7
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 4:	NOTES:
4 OR MORE AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND I-15 SB Ramps			SOUTHBOUND I-15 SB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 2	ST X	SR 1	EL X	ET 2	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	3	0	13	0	16	21	0	6	12	71	0	0	0	0	0
	7:15 AM	0	0	0	4	0	21	0	23	16	0	13	6	83	0	0	0	0	0
	7:30 AM	0	0	0	7	0	14	0	18	14	0	7	6	66	0	0	0	0	0
	7:45 AM	0	0	0	6	0	22	0	18	14	0	7	5	72	0	0	0	0	0
	8:00 AM	0	0	0	6	0	11	0	18	15	0	9	7	66	0	0	0	0	0
	8:15 AM	0	0	0	4	0	15	0	15	14	0	12	7	67	0	0	0	0	0
	8:30 AM	0	0	0	8	0	20	0	20	14	0	7	5	74	0	0	0	0	0
	8:45 AM	0	0	0	3	0	22	0	12	12	0	6	4	59	0	0	0	0	0
	VOLUMES	0	0	0	41	0	138	0	140	120	0	67	52	558	0	0	0	0	0
	APPROACH %	0%	0%	0%	23%	0%	77%	0%	54%	46%	0%	56%	44%						
	APP/DEPART	0	/	52	179	/	120	260	/	181	119	/	205	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	0	24	0	68	0	71	57	0	35	24	279					
	APPROACH %	0%	0%	0%	26%	0%	74%	0%	55%	45%	0%	59%	41%						
	PEAK HR FACTOR		0.000			0.821			0.941			0.776		0.943					
	APP/DEPART	0	/	24	92	/	57	128	/	95	59	/	103	0					
PM	4:00 PM	0	0	0	12	0	28	0	13	16	0	8	6	83	0	0	0	0	0
	4:15 PM	0	0	0	18	0	24	0	16	11	0	18	7	94	0	0	0	0	0
	4:30 PM	0	0	0	14	0	31	0	11	18	0	11	5	90	0	0	0	0	0
	4:45 PM	0	0	0	7	0	19	0	14	15	0	14	2	71	0	0	0	0	0
	5:00 PM	0	0	0	14	0	20	0	25	5	0	13	3	80	0	0	0	0	0
	5:15 PM	0	0	0	17	0	23	0	15	14	0	9	1	79	0	0	0	0	0
	5:30 PM	0	0	0	14	0	19	0	12	20	0	17	3	85	0	0	0	0	0
	5:45 PM	0	0	0	8	0	24	0	9	14	0	9	5	69	0	0	0	0	0
	VOLUMES	0	0	0	104	0	188	0	115	113	0	99	32	651	0	0	0	0	0
	APPROACH %	0%	0%	0%	36%	0%	64%	0%	50%	50%	0%	76%	24%						
	APP/DEPART	0	/	32	292	/	113	228	/	219	131	/	287	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	53	0	94	0	66	49	0	56	17	335					
	APPROACH %	0%	0%	0%	36%	0%	64%	0%	57%	43%	0%	77%	23%						
	PEAK HR FACTOR		0.000			0.817			0.958			0.730		0.891					
	APP/DEPART	0	/	17	147	/	49	115	/	119	73	/	150	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	7
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND I-15 SB Ramps			SOUTHBOUND I-15 SB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 2	ST X	SR 1	EL X	ET 2	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	1	0	0	0	0	0	0	1	0	2	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	1	0	1	0	0	0	0	2	0	0	0	0	0
	VOLUMES	0	0	0	1	0	1	0	3	0	0	2	0	7	0	0	0	0	0
	APPROACH %	0%	0%	0%	50%	0%	50%	0%	100%	0%	0%	100%	0%						
	APP/DEPART	0	/	0	2	/	0	3	/	4	2	/	3	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	0	0	0	0	0	1	0	0	1	0	2					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.000			0.250			0.250		0.500					
	APP/DEPART	0	/	0	0	/	0	1	/	1	1	/	1	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	5:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
	VOLUMES	0	0	0	0	0	2	0	0	1	0	2	1	6	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	67%	33%						
	APP/DEPART	0	/	1	2	/	1	1	/	0	3	/	4	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	2	1	3					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	67%	33%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.375		0.375					
	APP/DEPART	0	/	1	0	/	0	0	/	0	3	/	2	0					

I-15 SB Ramps

NORTH SIDE

Lenwood WEST SIDE EAST SIDE **Lenwood**

SOUTH SIDE

I-15 SB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	7
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER

▲ N S ▼ ◄ W E ►

		NORTHBOUND I-15 SB Ramps			SOUTHBOUND I-15 SB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 2	ST X	SR 1	EL X	ET 2	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	7:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	1	3	0	0	0	4	0	0	0	0	0
	7:45 AM	0	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	4	0	2	4	0	2	0	12	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	100%	0%	33%	67%	0%	100%	0%						
	APP/DEPART	0	/	0	4	/	4	6	/	2	2	/	6	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	0	0	0	3	0	1	1	0	1	0	6					
	APPROACH %	0%	0%	0%	0%	0%	100%	0%	50%	50%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.250			0.500			0.250		0.500					
	APP/DEPART	0	/	0	3	/	1	2	/	1	1	/	4	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	3	0	0	3	0	6	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	APP/DEPART	0	/	0	0	/	0	3	/	3	3	/	3	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	0	0	0	0	2	0	0	1	0	3					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.000			0.500			0.250		0.750					
	APP/DEPART	0	/	0	0	/	0	2	/	2	1	/	1	0					

I-15 SB Ramps

NORTH SIDE

Lenwood WEST SIDE EAST SIDE **Lenwood**

SOUTH SIDE

I-15 SB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

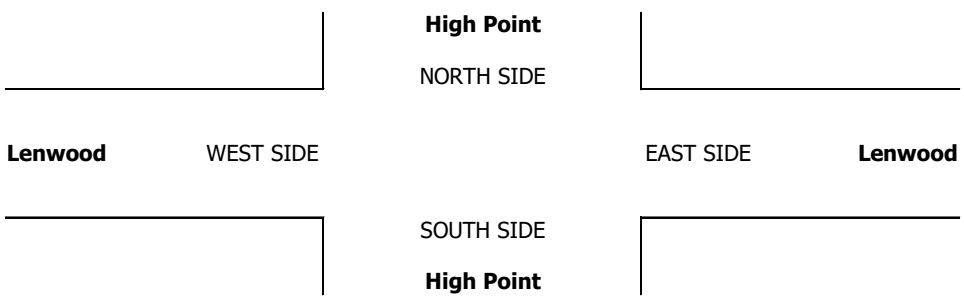
DATE:				
Thu, May 11, 23	LOCATION:	Barstow	PROJECT #:	SC4025
	NORTH & SOUTH:	High Point	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

NOTES:

AM PM MD OTHER OTHER — ▲ N, ◄ W, E ►, S ▼

☐ Add U-Turns to Left Turns

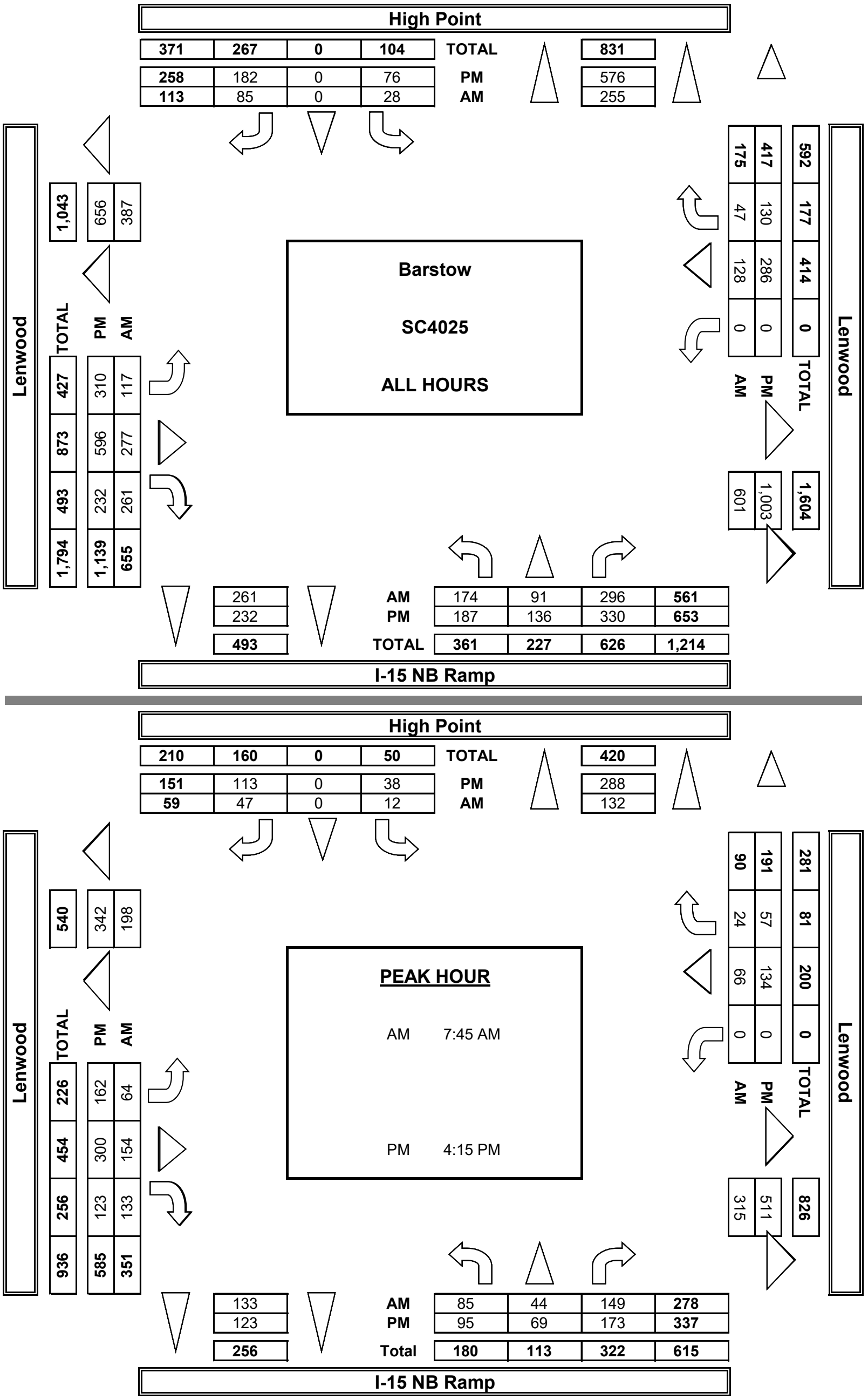
		NORTHBOUND I-15 NB Ramp			SOUTHBOUND High Point			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1.5	NT 0.5	NR 2	SL 1	ST X	SR 2	EL 2	ET 3	ER 1	WL X	WT 2	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	25	9	37	4	0	11	12	32	34	0	20	7	191	0	0	0	0	0
	7:15 AM	26	15	44	5	0	12	13	24	32	0	8	6	185	0	0	0	0	0
	7:30 AM	18	15	35	3	0	10	18	25	36	0	14	4	178	0	0	0	0	0
	7:45 AM	23	12	30	6	0	16	13	49	36	0	17	5	207	0	0	0	0	0
	8:00 AM	20	12	33	2	0	12	22	32	30	0	13	8	184	0	0	0	0	0
	8:15 AM	24	10	50	1	0	13	13	38	33	0	12	5	199	0	0	0	0	0
	8:30 AM	18	10	36	3	0	6	16	35	34	0	24	6	188	0	0	0	0	0
	8:45 AM	20	8	31	4	0	5	10	42	26	0	20	6	172	0	0	0	0	0
	VOLUMES	174	91	296	28	0	85	117	277	261	0	128	47	1,504	0	0	0	0	0
	APPROACH %	31%	16%	53%	25%	0%	75%	18%	42%	40%	0%	73%	27%						
	APP/DEPART	561	/	255	113	/	261	655	/	601	175	/	387	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	85	44	149	12	0	47	64	154	133	0	66	24	778					
	APPROACH %	31%	16%	54%	20%	0%	80%	18%	44%	38%	0%	73%	27%						
	PEAK HR FACTOR		0.827			0.670			0.895			0.750		0.940					
	APP/DEPART	278	/	132	59	/	133	351	/	315	90	/	198	0					
PM	4:00 PM	19	21	37	6	0	17	39	55	41	0	45	6	286	0	0	0	0	0
	4:15 PM	33	18	51	11	0	33	43	67	32	0	38	16	342	0	0	0	0	0
	4:30 PM	25	13	36	8	0	24	36	84	29	0	39	14	308	0	0	0	0	0
	4:45 PM	22	24	43	8	0	26	40	69	29	0	20	10	291	0	0	0	0	0
	5:00 PM	15	14	43	11	0	30	43	80	33	0	37	17	323	0	0	0	0	0
	5:15 PM	25	12	41	9	0	15	31	91	25	0	30	27	306	0	0	0	0	0
	5:30 PM	33	26	39	11	0	23	38	66	22	0	40	15	313	0	0	0	1	1
	5:45 PM	15	8	40	12	0	14	40	84	21	0	37	25	296	0	0	1	0	1
	VOLUMES	187	136	330	76	0	182	310	596	232	0	286	130	2,467	0	0	1	1	2
	APPROACH %	29%	21%	51%	29%	0%	71%	27%	52%	20%	0%	69%	31%						
	APP/DEPART	653	/	576	258	/	232	1,139	/	1,003	417	/	656	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	95	69	173	38	0	113	162	300	123	0	134	57	1,264					
	APPROACH %	28%	20%	51%	25%	0%	75%	28%	51%	21%	0%	70%	30%						
	PEAK HR FACTOR		0.826			0.858			0.938			0.884		0.924					
	APP/DEPART	337	/	288	151	/	123	585	/	511	191	/	342	0					



		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	4	1	0	0	5	3	1	0	0	4	1	0	0	0	1
	4:30 PM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
	4:45 PM	2	0	0	0	2	2	0	0	0	2	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
	TOTAL	8	1	0	0	9	6	1	0	0	7	2	0	0	0	2

AimTD LLC

TURNING MOVEMENT COUNTS



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

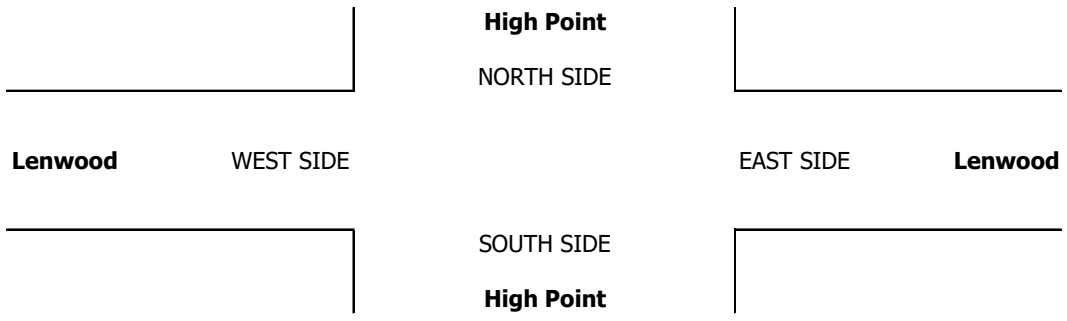
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	High Point	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

	NOTES:											
PCE Adjusted	Class	1	2	3	4	5	6		
	Factor	1	1.5	2	3	2	2		

AM
PM
MD
OTHER
OTHER

◄ W ▲ N S ▼ E ►

		NORTHBOUND High Point			SOUTHBOUND High Point			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1.5	NT 0.5	NR 2	SL 1	ST X	SR 2	EL 2	ET 3	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	35	23	47	8	0	24	21	36	61	0	38	9	300					0
	7:15 AM	49	35	56	9	0	27	26	33	64	0	13	7	318					0
	7:30 AM	30	32	43	4	0	23	32	30	70	0	19	5	286					0
	7:45 AM	32	23	34	9	0	29	23	57	69	0	24	5	304					0
	8:00 AM	42	24	38	4	0	24	35	41	59	0	17	12	294					0
	8:15 AM	46	20	55	1	0	31	21	40	63	0	12	8	296					0
	8:30 AM	32	20	45	3	0	16	26	45	73	0	27	7	294					0
	8:45 AM	33	15	33	6	0	11	15	49	50	0	22	6	239					0
	VOLUMES	297	191	350	43	0	185	199	330	508	0	170	58	2,329	0	0	0	0	0
	APPROACH %	35%	23%	42%	19%	0%	81%	19%	32%	49%	0%	75%	25%						
	APP/DEPART	837	/	447	228	/	508	1,037	/	723	228	/	652	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	151	87	172	17	0	100	105	183	264	0	79	31	1,187					
	APPROACH %	37%	21%	42%	14%	0%	86%	19%	33%	48%	0%	72%	28%						
	PEAK HR FACTOR		0.852			0.777			0.925			0.809		0.976					
	APP/DEPART	409	/	223	117	/	264	552	/	371	110	/	330	0					
PM	4:00 PM	32	43	44	6	0	21	68	56	65	0	58	8	399					0
	4:15 PM	59	33	66	15	0	55	73	80	62	0	45	18	505					0
	4:30 PM	51	31	41	10	0	34	68	94	45	0	39	18	430					0
	4:45 PM	43	53	48	8	0	37	53	76	58	0	23	12	408					0
	5:00 PM	35	32	52	11	0	37	71	95	73	0	46	20	471					0
	5:15 PM	41	20	46	10	0	20	55	108	53	0	34	33	417					0
	5:30 PM	64	42	50	14	0	33	65	81	37	0	40	21	445					0
	5:45 PM	25	18	45	15	0	24	58	92	35	0	46	26	382					0
	VOLUMES	349	271	388	88	0	261	510	680	426	0	330	155	3,456	0	0	0	0	0
	APPROACH %	35%	27%	39%	25%	0%	75%	32%	42%	26%	0%	68%	32%						
	APP/DEPART	1,007	/	935	349	/	426	1,616	/	1,156	485	/	939	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	187	148	205	44	0	163	265	345	237	0	153	68	1,813					
	APPROACH %	35%	27%	38%	21%	0%	79%	31%	41%	28%	0%	69%	31%						
	PEAK HR FACTOR		0.857			0.739			0.887			0.840		0.898					
	APP/DEPART	540	/	480	207	/	237	846	/	594	220	/	503	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

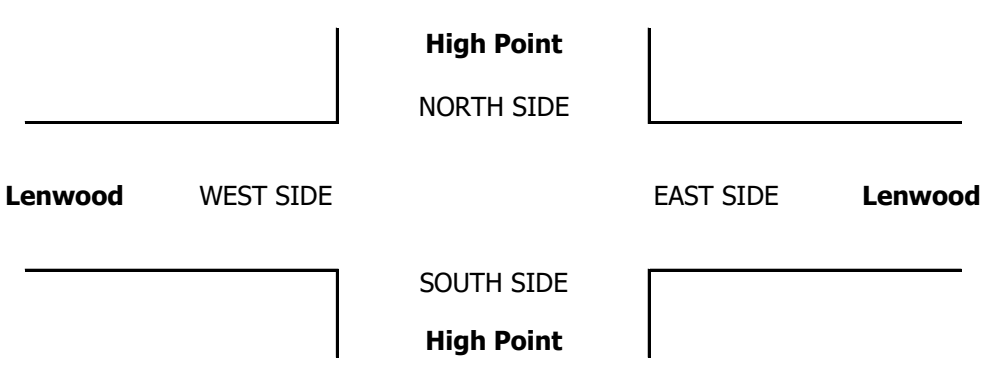
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	High Point	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND High Point			SOUTHBOUND High Point			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1.5	NT 0.5	NR 2	SL 1	ST X	SR 2	EL 2	ET 3	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	18	2	29	2	0	3	7	30	20	0	10	6	127	0	0	0	0	0
	7:15 AM	12	3	35	3	0	4	6	19	16	0	5	5	108	0	0	0	0	0
	7:30 AM	10	6	28	2	0	3	11	22	17	0	10	3	112	0	0	0	0	0
	7:45 AM	17	6	28	4	0	9	8	44	18	0	12	5	151	0	0	0	0	0
	8:00 AM	7	6	28	1	0	6	15	27	14	0	8	5	117	0	0	0	0	0
	8:15 AM	11	4	44	1	0	4	9	36	18	0	12	3	142	0	0	0	0	0
	8:30 AM	9	5	30	3	0	1	11	29	13	0	21	4	126	0	0	0	0	0
	8:45 AM	12	4	28	3	0	2	7	38	12	0	19	6	131	0	0	0	0	0
	VOLUMES	96	36	250	19	0	32	74	245	128	0	97	37	1,014	0	0	0	0	0
	APPROACH %	25%	9%	65%	37%	0%	63%	17%	55%	29%	0%	72%	28%						
	APP/DEPART	382	/	147	51	/	128	447	/	514	134	/	225	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	44	21	130	9	0	20	43	136	63	0	53	17	536					
	APPROACH %	23%	11%	67%	31%	0%	69%	18%	56%	26%	0%	76%	24%						
	PEAK HR FACTOR		0.826			0.558			0.864			0.700		0.887					
	APP/DEPART	195	/	81	29	/	63	242	/	275	70	/	117	0					
PM	4:00 PM	12	8	33	6	0	15	24	54	27	0	38	5	222	0	0	0	0	0
	4:15 PM	20	10	42	9	0	21	25	59	16	0	31	15	248	0	0	0	0	0
	4:30 PM	11	3	33	7	0	18	18	74	21	0	39	12	236	0	0	0	0	0
	4:45 PM	11	9	40	8	0	20	33	64	14	0	18	8	225	0	0	0	0	0
	5:00 PM	5	5	38	11	0	26	27	68	13	0	30	15	238	0	0	0	0	0
	5:15 PM	15	8	38	8	0	11	18	80	11	0	28	24	241	0	0	0	0	0
	5:30 PM	17	18	32	9	0	18	24	57	14	0	40	12	241	0	0	0	0	0
	5:45 PM	10	3	37	10	0	9	30	77	14	0	32	24	246	0	0	1	0	1
	VOLUMES	101	64	293	68	0	138	199	533	130	0	256	115	1,898	0	0	1	0	1
	APPROACH %	22%	14%	64%	33%	0%	67%	23%	62%	15%	0%	69%	31%						
	APP/DEPART	458	/	378	206	/	130	863	/	894	371	/	496	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	47	27	153	35	0	85	103	265	64	0	118	50	947					
	APPROACH %	21%	12%	67%	29%	0%	71%	24%	61%	15%	0%	70%	30%						
	PEAK HR FACTOR		0.788			0.811			0.956			0.824		0.955					
	APP/DEPART	227	/	180	120	/	64	432	/	453	168	/	250	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

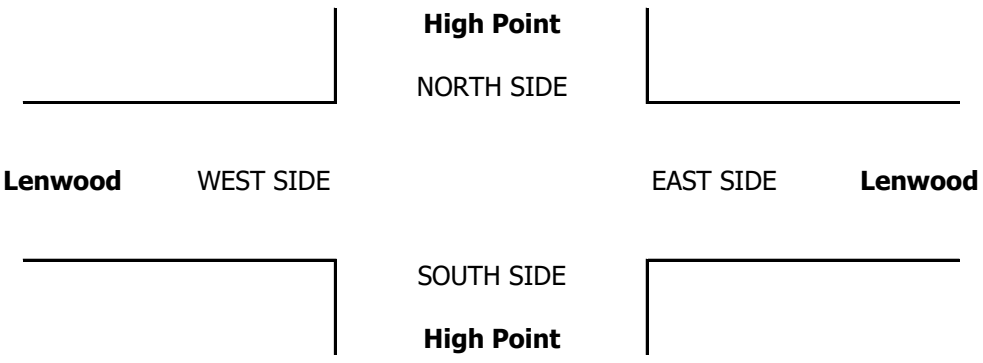
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	High Point	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 2:	NOTES:
2-AXLE WORK VEHICLES/ TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND High Point			SOUTHBOUND High Point			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1.5	NT 0.5	NR 2	SL 1	ST X	SR 2	EL 2	ET 3	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	3	0	3	0	0	2	0	0	1	0	1	0	10	0	0	0	0	0
	7:15 AM	3	2	4	0	0	0	0	1	0	0	1	0	11	0	0	0	0	0
	7:30 AM	3	1	3	1	0	0	0	0	2	0	2	0	12	0	0	0	0	0
	7:45 AM	2	0	0	1	0	0	0	0	2	0	1	0	6	0	0	0	0	0
	8:00 AM	3	0	3	0	0	0	0	1	2	0	3	1	13	0	0	0	0	0
	8:15 AM	3	1	4	0	0	0	0	0	0	0	0	1	9	0	0	0	0	0
	8:30 AM	2	0	2	0	0	0	0	0	2	0	2	2	10	0	0	0	0	0
	8:45 AM	2	1	2	0	0	0	1	0	1	0	0	0	7	0	0	0	0	0
	VOLUMES	21	5	21	2	0	2	1	2	10	0	10	4	78	0	0	0	0	0
	APPROACH %	45%	11%	45%	50%	0%	50%	8%	15%	77%	0%	71%	29%						
	APP/DEPART	47	/	10	4	/	10	13	/	25	14	/	33	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	10	1	9	1	0	0	0	1	6	0	6	4	38					
	APPROACH %	50%	5%	45%	100%	0%	0%	0%	14%	86%	0%	60%	40%						
	PEAK HR FACTOR		0.625			0.250			0.583			0.625		0.731					
	APP/DEPART	20	/	5	1	/	6	7	/	11	10	/	16	0					
PM	4:00 PM	0	3	1	0	0	0	0	1	3	0	0	0	8	0	0	0	0	0
	4:15 PM	0	0	1	0	0	0	2	2	1	0	4	0	10	0	0	0	0	0
	4:30 PM	1	1	1	0	0	0	2	4	0	0	0	0	9	0	0	0	0	0
	4:45 PM	1	1	1	0	0	0	0	1	1	0	1	0	6	0	0	0	0	0
	5:00 PM	0	0	1	0	0	0	3	6	0	0	2	1	13	0	0	0	0	0
	5:15 PM	3	0	1	1	0	1	1	3	0	0	0	0	10	0	0	0	0	0
	5:30 PM	0	0	1	1	0	0	0	1	1	0	0	0	4	0	0	0	1	1
	5:45 PM	0	0	1	0	0	0	1	2	0	0	1	1	6	0	0	0	0	0
	VOLUMES	5	5	8	2	0	1	9	20	6	0	8	2	67	0	0	0	1	1
	APPROACH %	28%	28%	44%	67%	0%	33%	26%	57%	17%	0%	73%	18%						
	APP/DEPART	18	/	16	3	/	6	35	/	31	11	/	14	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	2	2	4	0	0	0	7	13	2	0	7	1	38					
	APPROACH %	25%	25%	50%	0%	0%	0%	32%	59%	9%	0%	88%	13%						
	PEAK HR FACTOR		0.667			0.000			0.611			0.500		0.731					
	APP/DEPART	8	/	10	0	/	2	22	/	17	8	/	9	0					



INTERSECTION TURNING MOVEMENT COUNTS

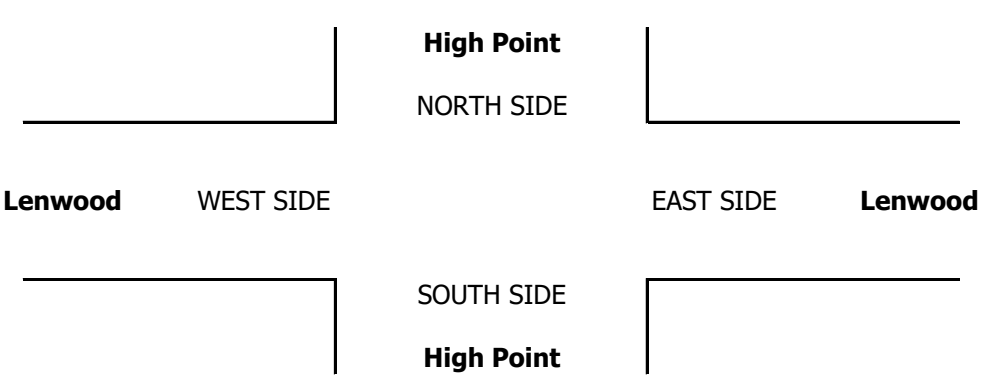
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	High Point	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 3:	NOTES:
3-AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND High Point			SOUTHBOUND High Point			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1.5	NT 0.5	NR 2	SL 1	ST X	SR 2	EL 2	ET 3	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	1	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
	7:15 AM	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0
	7:30 AM	0	0	2	0	0	1	0	0	0	0	0	1	4	0	0	0	0	0
	7:45 AM	0	1	0	0	0	0	0	2	0	0	2	0	5	0	0	0	0	0
	8:00 AM	0	0	1	0	0	0	1	0	0	0	1	1	4	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:30 AM	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
	8:45 AM	0	0	1	0	0	0	0	1	2	0	0	0	4	0	0	0	0	0
	VOLUMES	1	1	5	0	0	2	2	5	2	0	3	3	24	0	0	0	0	0
	APPROACH %	14%	14%	71%	0%	0%	100%	22%	56%	22%	0%	50%	50%						
	APP/DEPART	7	/	6	2	/	2	9	/	10	6	/	6	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	1	1	1	0	0	0	1	4	0	0	3	1	12					
	APPROACH %	33%	33%	33%	0%	0%	0%	20%	80%	0%	0%	75%	25%						
	PEAK HR FACTOR		0.750			0.000			0.625			0.500		0.600					
	APP/DEPART	3	/	3	0	/	0	5	/	5	4	/	4	0					
PM	4:00 PM	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
	4:15 PM	0	1	2	0	0	0	3	0	1	0	1	0	8	0	0	0	0	0
	4:30 PM	0	0	0	0	0	2	1	3	0	0	0	0	6	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	1	1	0	0	0	2	4	0	0	0	0	0
	5:00 PM	0	0	0	0	0	1	0	0	0	0	2	0	3	0	0	0	0	0
	5:15 PM	0	0	0	0	0	2	1	1	0	0	0	0	4	0	0	0	0	0
	5:30 PM	1	0	2	0	0	0	1	1	0	0	0	0	5	0	0	0	0	0
	5:45 PM	0	0	0	1	0	0	1	3	0	0	0	0	5	0	0	0	0	0
	VOLUMES	1	1	4	1	0	5	9	9	1	0	3	2	36	0	0	0	0	0
	APPROACH %	17%	17%	67%	17%	0%	83%	47%	47%	5%	0%	60%	40%						
	APP/DEPART	6	/	12	6	/	1	19	/	14	5	/	9	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	1	2	0	0	3	5	4	1	0	3	2	21					
	APPROACH %	0%	33%	67%	0%	0%	100%	50%	40%	10%	0%	60%	40%						
	PEAK HR FACTOR		0.250			0.375			0.625			0.625		0.656					
	APP/DEPART	3	/	8	3	/	1	10	/	6	5	/	6	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

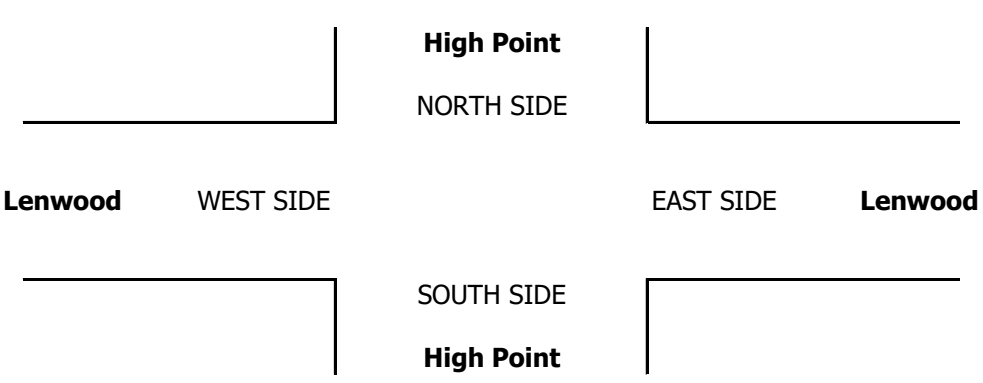
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	High Point	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 4:	NOTES:
4 OR MORE AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND High Point			SOUTHBOUND High Point			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1.5	NT 0.5	NR 2	SL 1	ST X	SR 2	EL 2	ET 3	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	4	7	3	2	0	6	4	2	13	0	8	1	50	0	0	0	0	0
	7:15 AM	10	9	5	2	0	7	6	4	16	0	2	0	61	0	0	0	0	0
	7:30 AM	5	8	2	0	0	6	7	2	16	0	2	0	48	0	0	0	0	0
	7:45 AM	4	5	2	1	0	6	5	3	16	0	2	0	44	0	0	0	0	0
	8:00 AM	10	6	1	1	0	6	6	4	14	0	0	1	49	0	0	0	0	0
	8:15 AM	10	4	1	0	0	9	4	0	15	0	0	1	44	0	0	0	0	0
	8:30 AM	6	5	4	0	0	5	5	4	19	0	1	0	49	0	0	0	0	0
	8:45 AM	6	3	0	1	0	3	2	3	10	0	1	0	29	0	0	0	0	0
	VOLUMES	55	47	18	7	0	48	39	22	119	0	16	3	374	0	0	0	0	0
	APPROACH %	46%	39%	15%	13%	0%	87%	22%	12%	66%	0%	84%	16%						
	APP/DEPART	120	/	89	55	/	119	180	/	47	19	/	119	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	30	20	8	2	0	26	20	11	64	0	3	2	186					
	APPROACH %	52%	34%	14%	7%	0%	93%	21%	12%	67%	0%	60%	40%						
	PEAK HR FACTOR		0.853			0.778			0.848			0.625		0.949					
	APP/DEPART	58	/	42	28	/	64	95	/	21	5	/	59	0					
PM	4:00 PM	6	10	3	0	0	2	14	0	11	0	6	1	53	0	0	0	0	0
	4:15 PM	13	7	6	2	0	10	13	6	14	0	2	1	74	0	0	0	0	0
	4:30 PM	12	8	2	1	0	4	15	2	8	0	0	2	54	0	0	0	0	0
	4:45 PM	10	14	2	0	0	5	6	2	14	0	1	0	54	0	0	0	0	0
	5:00 PM	10	9	4	0	0	3	13	6	20	0	3	1	69	0	0	0	0	0
	5:15 PM	7	4	2	0	0	1	11	7	14	0	2	3	51	0	0	0	0	0
	5:30 PM	15	8	4	1	0	5	13	6	7	0	0	3	62	0	0	0	0	0
	5:45 PM	5	5	2	1	0	5	8	2	7	0	4	0	39	0	0	0	0	0
	VOLUMES	78	65	25	5	0	35	93	31	95	0	18	11	456	0	0	0	0	0
	APPROACH %	46%	39%	15%	13%	0%	88%	42%	14%	43%	0%	62%	38%						
	APP/DEPART	168	/	169	40	/	95	219	/	61	29	/	131	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	45	38	14	3	0	22	47	16	56	0	6	4	251					
	APPROACH %	46%	39%	14%	12%	0%	88%	39%	13%	47%	0%	60%	40%						
	PEAK HR FACTOR		0.933			0.521			0.763			0.625		0.848					
	APP/DEPART	97	/	89	25	/	56	119	/	33	10	/	73	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

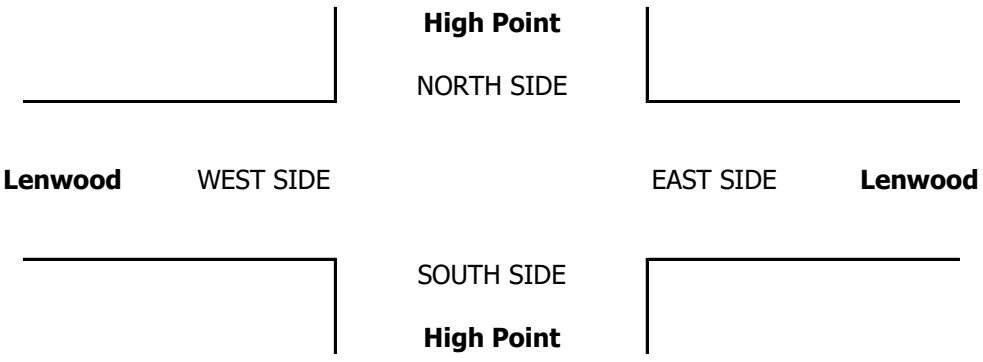
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	High Point	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND High Point			SOUTHBOUND High Point			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1.5	NT 0.5	NR 2	SL 1	ST X	SR 2	EL 2	ET 3	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	7:15 AM	1	1	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	7:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	1	1	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	VOLUMES	1	2	2	0	0	1	1	1	2	0	0	0	10	0	0	0	0	0
	APPROACH %	20%	40%	40%	0%	0%	100%	25%	25%	50%	0%	0%	0%						
	APP/DEPART	5	/	3	1	/	2	4	/	3	0	/	2	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	1	1	0	0	1	0	1	0	0	0	0	4					
	APPROACH %	0%	50%	50%	0%	0%	100%	0%	100%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.250			0.250			0.250			0.000		0.333					
	APP/DEPART	2	/	1	1	/	0	1	/	2	0	/	1	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0
	4:30 PM	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	0	0	0	0	2	0	0	0	0	0	0	3	0	0	0	0	0
	APPROACH %	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	1	/	0	2	/	0	0	/	0	0	/	3	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	1	0	0	0	0	2	0	0	0	0	0	0	3					
	APPROACH %	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.250			0.250			0.000			0.000		0.375					
	APP/DEPART	1	/	0	2	/	0	0	/	0	0	/	3	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

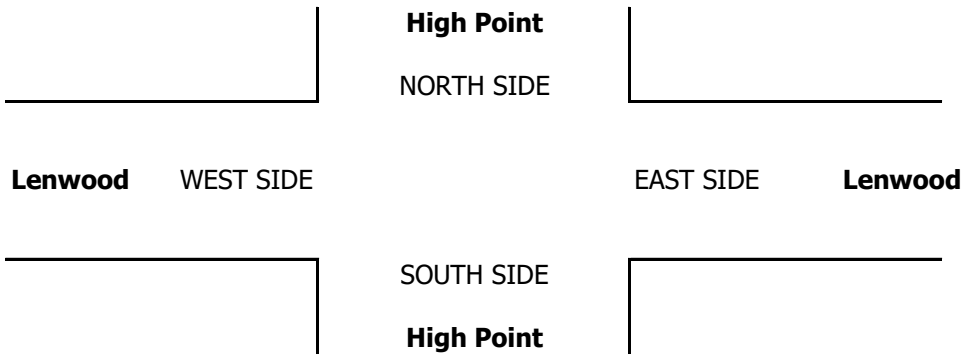
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	High Point	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND High Point			SOUTHBOUND High Point			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 1.5	NT 0.5	NR 2	SL 1	ST X	SR 2	EL 2	ET 3	ER 1	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	2	0	0	2	0	4	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	APP/DEPART	0	/	0	0	/	0	2	/	2	2	/	2	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	0	0	0	0	0	0	0	1	0	0	1	0	2					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.000			0.250			0.250		0.500					
	APP/DEPART	0	/	0	0	/	0	1	/	1	1	/	1	0					
PM	4:00 PM	1	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
	4:45 PM	0	0	0	0	0	1	0	1	0	0	0	0	2	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	1	0	0	0	1	0	3	0	0	1	0	7	0	0	0	0	0
	APPROACH %	50%	50%	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%						
	APP/DEPART	2	/	1	1	/	0	3	/	3	1	/	3	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	1	0	0	0	1	0	2	0	0	0	0	4					
	APPROACH %	0%	100%	0%	0%	0%	100%	0%	100%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.250			0.250			0.500			0.000		0.500					
	APP/DEPART	1	/	1	1	/	0	2	/	2	0	/	1	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
Thu, May 11, 23	LOCATION:	Barstow	PROJECT #:	SC4025
	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

☐ Add U-Turns to Left Turns

		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 1	ET 0	ER 0	WL 0	WT 0	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	0	0	0	0	0	0	3	0	0	0	0	38	41	0	27	0	0	27
	7:15 AM	0	0	0	0	0	0	1	0	0	0	0	48	49	0	17	0	0	17
	7:30 AM	0	1	0	0	0	0	4	0	0	0	0	48	53	0	26	0	0	26
	7:45 AM	0	0	0	0	0	0	2	0	0	0	0	52	54	0	23	0	0	23
	8:00 AM	0	1	0	0	0	0	2	0	0	0	0	41	44	0	29	0	0	29
	8:15 AM	0	1	0	0	0	0	1	0	0	0	0	33	35	0	19	0	0	19
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	58	58	0	24	0	0	24
	8:45 AM	0	0	0	0	0	0	1	0	0	0	0	55	56	0	28	0	0	28
	VOLUMES	0	3	0	0	0	0	14	0	0	0	0	373	583	0	193	0	0	193
	APPROACH %	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	APP/DEPART	3	/	583	193	/	0	14	/	0	373	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	2	0	0	0	0	9	0	0	0	0	189	295					
	APPROACH %	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	PEAK HR FACTOR		0.500			0.819			0.563			0.909		0.934					
	APP/DEPART	2	/	295	95	/	0	9	/	0	189	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	71	71	0	36	0	0	36
	4:15 PM	0	0	0	0	0	0	1	0	0	0	0	50	51	0	43	0	0	43
	4:30 PM	0	0	0	0	0	0	2	0	0	0	0	49	51	0	40	0	0	40
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	74	74	0	34	0	0	34
	5:00 PM	0	0	0	0	0	0	1	0	0	0	0	70	71	0	27	0	0	27
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	73	73	0	35	0	0	35
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	56	56	0	34	0	0	34
	5:45 PM	0	0	0	0	0	0	1	0	0	0	0	61	62	0	30	0	0	30
	VOLUMES	0	0	0	0	0	0	5	0	0	0	0	504	788	0	279	0	0	279
	APPROACH %	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	APP/DEPART	0	/	788	279	/	0	5	/	0	504	/	0	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	0	0	0	0	0	0	3	0	0	0	0	266	405					
	APPROACH %	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	PEAK HR FACTOR		0.000			0.850			0.375			0.899		0.938					
	APP/DEPART	0	/	405	136	/	0	3	/	0	266	/	0	0					

I-15 NB Ramps

NORTH SIDE

Lenwood WEST SIDE EAST SIDE **Lenwood**

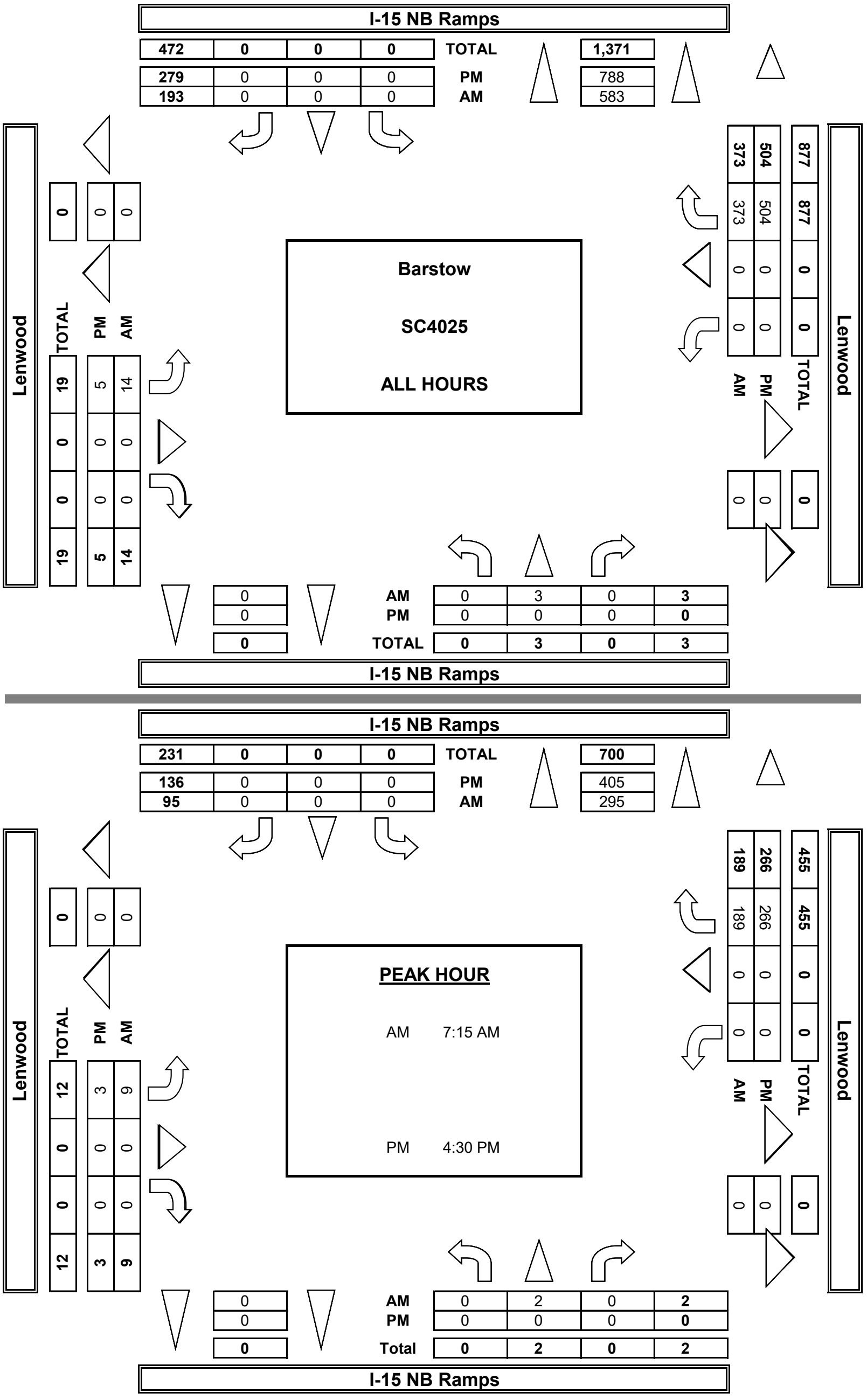
SOUTH SIDE

I-15 NB Ramps

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

	NOTES:													
PCE Adjusted	Class	1	2	3	4	5	6			AM		▲ N		
	Factor	1	1.5	2	3	2	2			PM	◄ W		E ►	
										MD				
										OTHER		S ▼		
										OTHER				

		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 1	ET 0	ER 0	WL 0	WT 0	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	3	0	0	0	0	48	51					0
	7:15 AM	0	0	0	0	0	0	3	0	0	0	0	67	70					0
	7:30 AM	0	1	0	0	0	0	4	0	0	0	0	58	63					0
	7:45 AM	0	0	0	0	0	0	2	0	0	0	0	64	66					0
	8:00 AM	0	3	0	0	0	0	2	0	0	0	0	52	57					0
	8:15 AM	0	2	0	0	0	0	1	0	0	0	0	39	42					0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	62	62					0
	8:45 AM	0	0	0	0	0	0	1	0	0	0	0	60	61					0
	VOLUMES	0	6	0	0	0	0	16	0	0	0	0	449	471	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	APP/DEPART	6	/	471	0	/	0	16	/	0	449	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	4	0	0	0	0	11	0	0	0	0	241	256					
	APPROACH %	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	PEAK HR FACTOR		0.333			0.000			0.688			0.904		0.919					
	APP/DEPART	4	/	256	0	/	0	11	/	0	241	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	79	79					0
	4:15 PM	0	0	0	0	0	0	3	0	0	0	0	59	62					0
	4:30 PM	0	0	0	0	0	0	2	0	0	0	0	60	62					0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	85	85					0
	5:00 PM	0	0	0	0	0	0	1	0	0	0	0	75	76					0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	79	79					0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	61	61					0
	5:45 PM	0	0	0	0	0	0	3	0	0	0	0	74	77					0
	VOLUMES	0	0	0	0	0	0	9	0	0	0	0	569	578	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	APP/DEPART	0	/	578	0	/	0	9	/	0	569	/	0	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	0	0	0	0	0	0	3	0	0	0	0	298	301					
	APPROACH %	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	PEAK HR FACTOR		0.000			0.000			0.375			0.882		0.891					
	APP/DEPART	0	/	301	0	/	0	3	/	0	298	/	0	0					

I-15 NB Ramps

NORTH SIDE

Lenwood WEST SIDE

EAST SIDE **Lenwood**

SOUTH SIDE

I-15 NB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

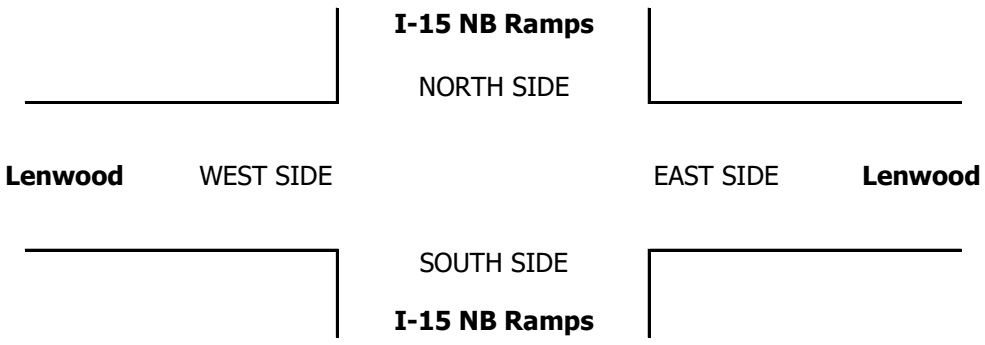
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 1	ET 0	ER 0	WL 0	WT 0	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	3	0	0	0	0	31	34	0	12	0	0	12
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	35	35	0	7	0	0	7
	7:30 AM	0	1	0	0	0	0	4	0	0	0	0	40	45	0	15	0	0	15
	7:45 AM	0	0	0	0	0	0	2	0	0	0	0	43	45	0	7	0	0	7
	8:00 AM	0	0	0	0	0	0	2	0	0	0	0	31	33	0	13	0	0	13
	8:15 AM	0	0	0	0	0	0	1	0	0	0	0	29	30	0	6	0	0	6
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	53	53	0	12	0	0	12
	8:45 AM	0	0	0	0	0	0	1	0	0	0	0	51	52	0	17	0	0	17
	VOLUMES	0	1	0	0	0	0	13	0	0	0	0	313	416	0	89	0	0	89
	APPROACH %	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	APP/DEPART	1	/	416	89	/	0	13	/	0	313	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	1	0	0	0	0	8	0	0	0	0	149	200					
	APPROACH %	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	PEAK HR FACTOR		0.250			0.700			0.500			0.866		0.833					
	APP/DEPART	1	/	200	42	/	0	8	/	0	149	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	65	65	0	22	0	0	22
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	45	45	0	27	0	0	27
	4:30 PM	0	0	0	0	0	0	2	0	0	0	0	42	44	0	27	0	0	27
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	68	68	0	17	0	0	17
	5:00 PM	0	0	0	0	0	0	1	0	0	0	0	67	68	0	18	0	0	18
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	67	67	0	22	0	0	22
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	53	53	0	19	0	0	19
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	54	54	0	24	0	0	24
	VOLUMES	0	0	0	0	0	0	3	0	0	0	0	461	640	0	176	0	0	176
	APPROACH %	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	APP/DEPART	0	/	640	176	/	0	3	/	0	461	/	0	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	0	0	0	0	0	0	3	0	0	0	0	244	331					
	APPROACH %	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	PEAK HR FACTOR		0.000			0.778			0.375			0.897		0.930					
	APP/DEPART	0	/	331	84	/	0	3	/	0	244	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

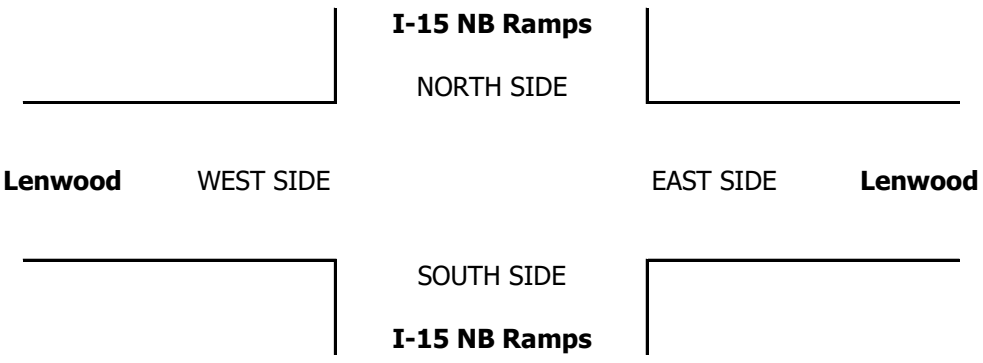
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 2:	NOTES:
2-AXLE WORK VEHICLES/ TRUCKS	

AM PM MD OTHER OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 1	ET 0	ER 0	WL 0	WT 0	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	5	5	0	2	0	0	2
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	4	4	0	2	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	4	4	0	3	0	0	3
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	6	6	0	1	0	0	1
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	4	4	0	2	0	0	2
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	2	0	0	2
VOLUMES	0	1	0	0	0	0	0	0	0	0	0	28	42	0	13	0	0	13
APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%						
APP/DEPART	1	/	42	13	/	0	0	/	0	28	/	0	0					
BEGIN PEAK HR		7:15 AM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	19	27					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%						
PEAK HR FACTOR		0.000			0.667			0.000			0.792		0.964					
APP/DEPART	0	/	27	8	/	0	0	/	0	19	/	0	0					
PM 4:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	3	0	1	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	1	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	4	0	0	4
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3	0	0	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	14	26	0	12	0	0	12
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%						
APP/DEPART	0	/	26	12	/	0	0	/	0	14	/	0	0					
BEGIN PEAK HR		4:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	8	14					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%						
PEAK HR FACTOR		0.000			0.375			0.000			0.500		0.700					
APP/DEPART	0	/	14	6	/	0	0	/	0	8	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

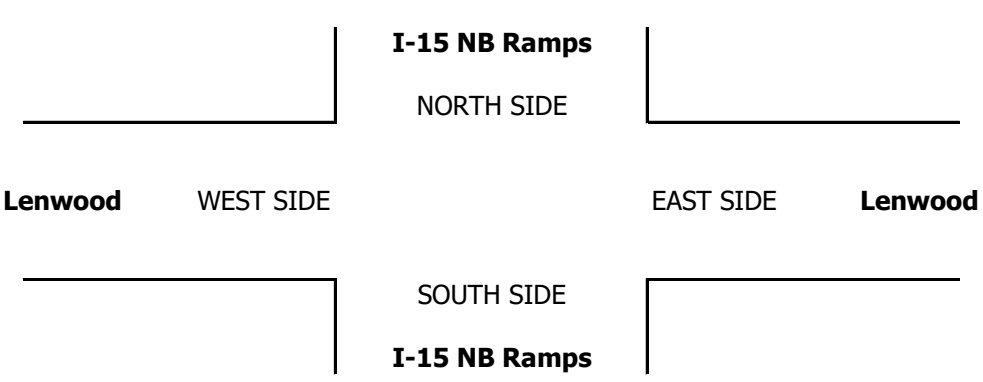
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 3:	NOTES:
3-AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 1	ET 0	ER 0	WL 0	WT 0	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	1	4	0	3	0	0	3
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%						
	APP/DEPART	0	/	4	3	/	0	0	/	0	1	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	2					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.250			0.000			0.000		0.250					
	APP/DEPART	0	/	2	2	/	0	0	/	0	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	2	2	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	1					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.250			0.000			0.000		0.250					
	APP/DEPART	0	/	1	1	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

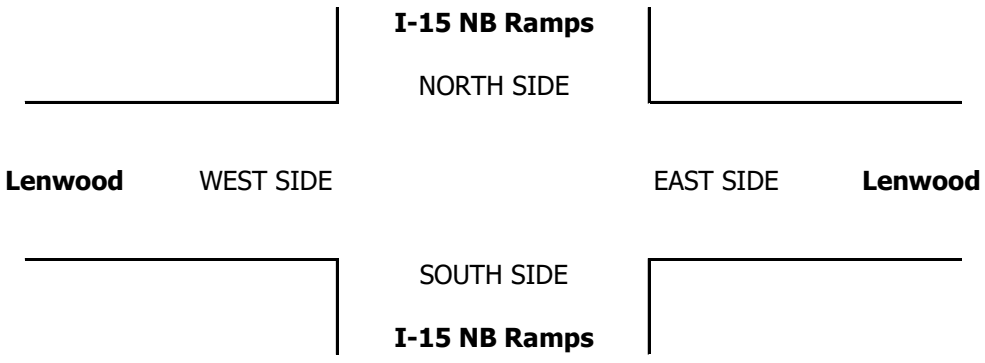
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 4:	NOTES:
4 OR MORE AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB	TTL
	LANES:	0	1	0	0	0	0	1	0	0	0	0	1						
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	4	4	0	15	0	0	15
	7:15 AM	0	0	0	0	0	0	1	0	0	0	0	8	9	0	8	0	0	8
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	4	4	0	9	0	0	9
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	5	5	0	14	0	0	14
	8:00 AM	0	1	0	0	0	0	0	0	0	0	0	4	5	0	10	0	0	10
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	11	0	0	11
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	9	0	0	9
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	9	0	0	9
	VOLUMES	0	1	0	0	0	0	1	0	0	0	0	30	117	0	85	0	0	85
	APPROACH %	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	APP/DEPART	1	/	117	85	/	0	1	/	0	30	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	1	0	0	0	0	1	0	0	0	0	21	64					
	APPROACH %	0%	100%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	PEAK HR FACTOR		0.250			0.732			0.250			0.656		0.842					
	APP/DEPART	1	/	64	41	/	0	1	/	0	21	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	3	0	11	0	0	11
	4:15 PM	0	0	0	0	0	0	1	0	0	0	0	4	5	0	14	0	0	14
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	5	5	0	12	0	0	12
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	5	5	0	11	0	0	11
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	8	0	0	8
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	13	0	0	13
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	12	0	0	12
	5:45 PM	0	0	0	0	0	0	1	0	0	0	0	6	7	0	6	0	0	6
	VOLUMES	0	0	0	0	0	0	2	0	0	0	0	29	118	0	87	0	0	87
	APPROACH %	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	100%						
	APP/DEPART	0	/	118	87	/	0	2	/	0	29	/	0	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	14	58					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%						
	PEAK HR FACTOR		0.000			0.846			0.000			0.700		0.853					
	APP/DEPART	0	/	58	44	/	0	0	/	0	14	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

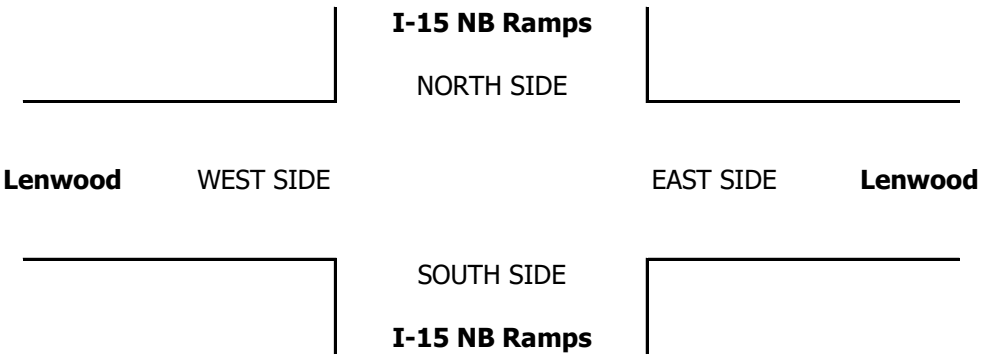
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 1	ET 0	ER 0	WL 0	WT 0	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	1	3	0	2	0	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%						
	APP/DEPART	0	/	3	2	/	0	0	/	0	1	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	1					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.250			0.000			0.000		0.250					
	APP/DEPART	0	/	1	1	/	0	0	/	0	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	1	1	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

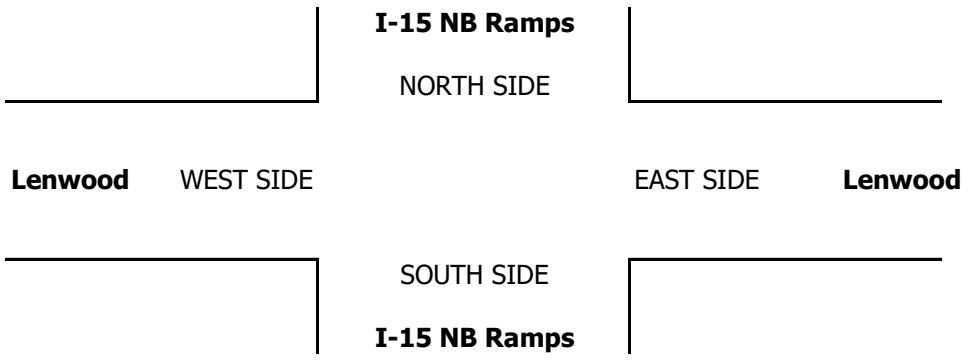
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	8
	EAST & WEST:	Lenwood	CONTROL:	SIGNAL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Lenwood			WESTBOUND Lenwood				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 1	ET 0	ER 0	WL 0	WT 0	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	1	1	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	1					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.250			0.000			0.000		0.250					
	APP/DEPART	0	/	1	1	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
Thu, May 11, 23	LOCATION:	Barstow	PROJECT #:	SC4025
	NORTH & SOUTH:	SR-58 SB Ramps	LOCATION #:	9
	EAST & WEST:	Main	CONTROL:	SIGNAL

NOTES:

AM
PM
MD
OTHER
OTHER

▲ N
◄ W
E ►
S ▼

☑ Add U-Turns to Left Turns

	NORTHBOUND SR-58 SB Ramps			SOUTHBOUND SR-58 SB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB	TTL
LANES:	X	X	X	1.5	0.5	1	X	2	0	1	2	X		0	0	0	0	
AM 7:00 AM	0	0	0	3	0	0	0	35	70	6	36	0	150	0	0	0	0	0
7:15 AM	0	0	0	3	0	1	0	41	29	8	45	0	127	0	0	0	0	0
7:30 AM	0	0	0	7	0	2	0	44	30	11	32	0	126	0	0	0	0	0
7:45 AM	0	0	0	4	0	0	0	47	48	4	48	0	151	0	0	0	0	0
8:00 AM	0	0	0	0	0	1	0	43	30	6	51	0	131	0	0	0	0	0
8:15 AM	0	0	0	4	0	0	0	65	44	2	79	0	194	0	0	0	0	0
8:30 AM	0	0	0	6	0	0	0	88	33	5	60	0	192	0	0	0	0	0
8:45 AM	0	0	0	3	0	0	0	76	38	4	60	0	181	0	0	0	0	0
VOLUMES	0	0	0	30	0	4	0	439	322	46	411	0	1,252	0	0	0	0	0
APPROACH %	0%	0%	0%	88%	0%	12%	0%	58%	42%	10%	90%	0%						
APP/DEPART	0	/	0	34	/	368	761	/	469	457	/	415	0					
BEGIN PEAK HR		8:00 AM																
VOLUMES	0	0	0	13	0	1	0	272	145	17	250	0	698					
APPROACH %	0%	0%	0%	93%	0%	7%	0%	65%	35%	6%	94%	0%						
PEAK HR FACTOR		0.000			0.583			0.862			0.824		0.899					
APP/DEPART	0	/	0	14	/	162	417	/	285	267	/	251	0					
PM 4:00 PM	0	0	0	4	0	1	0	48	26	6	105	0	190	0	0	0	0	0
4:15 PM	0	0	0	2	0	1	0	44	21	6	123	0	197	0	0	0	0	0
4:30 PM	0	0	0	3	1	1	0	52	31	4	125	0	217	0	0	0	0	0
4:45 PM	0	0	0	12	0	0	0	49	31	7	115	0	214	0	0	0	0	0
5:00 PM	0	0	0	3	1	1	0	42	24	6	118	0	195	0	0	0	0	0
5:15 PM	0	0	0	2	0	0	0	48	29	7	100	0	186	0	0	0	0	0
5:30 PM	0	0	0	7	1	1	0	54	32	7	101	0	203	0	0	0	0	0
5:45 PM	0	0	0	4	0	1	0	47	24	2	86	0	164	0	0	0	0	0
VOLUMES	0	0	0	37	3	6	0	384	218	45	873	0	1,566	0	0	0	0	0
APPROACH %	0%	0%	0%	80%	7%	13%	0%	64%	36%	5%	95%	0%						
APP/DEPART	0	/	0	46	/	266	602	/	421	918	/	879	0					
BEGIN PEAK HR		4:15 PM																
VOLUMES	0	0	0	20	2	3	0	187	107	23	481	0	823					
APPROACH %	0%	0%	0%	80%	8%	12%	0%	64%	36%	5%	95%	0%						
PEAK HR FACTOR		0.000			0.521			0.886			0.977		0.948					
APP/DEPART	0	/	0	25	/	132	294	/	207	504	/	484	0					

SR-58 SB Ramps

NORTH SIDE

Main WEST SIDE EAST SIDE **Main**

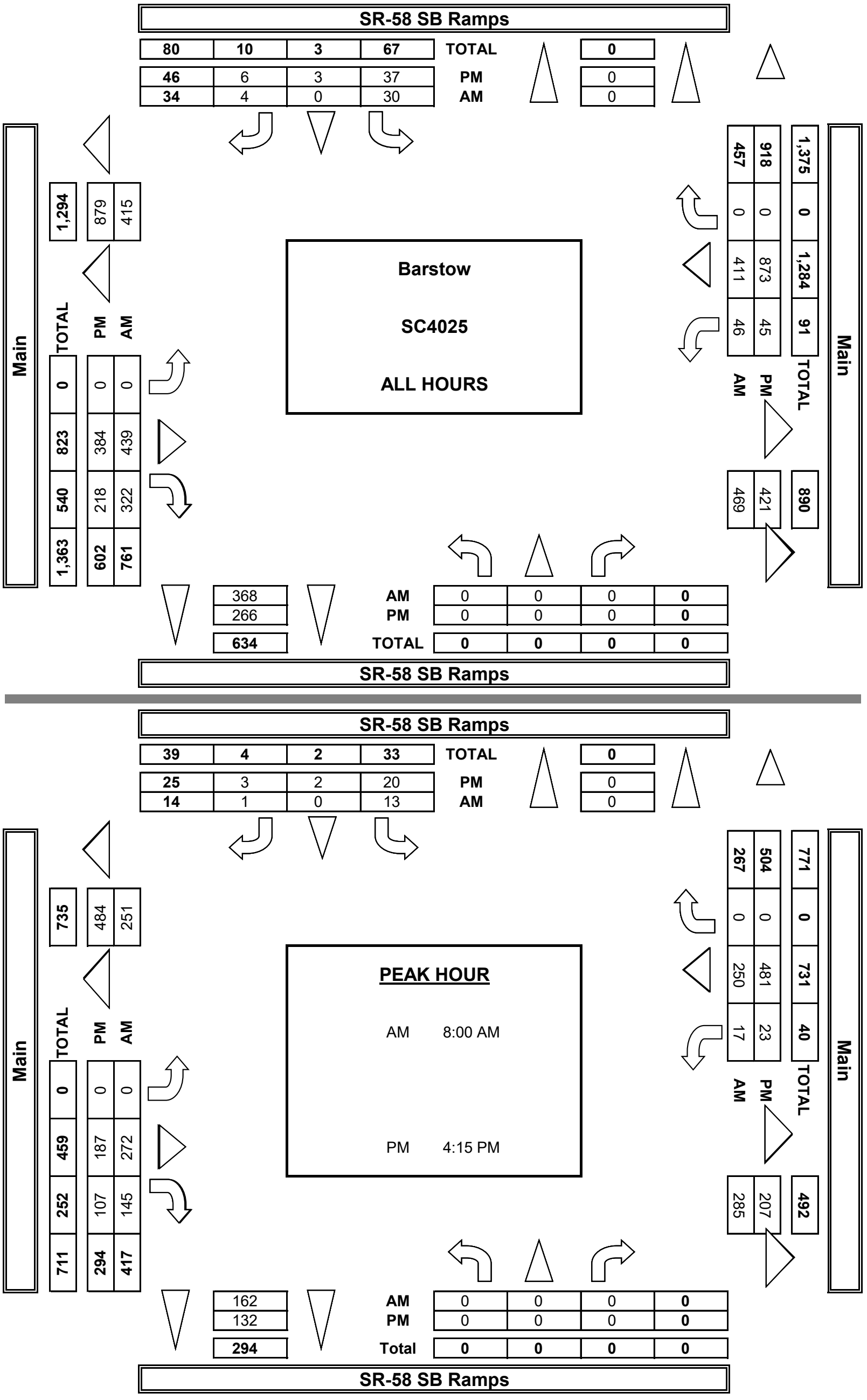
SOUTH SIDE

SR-58 SB Ramps

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
	4:15 PM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	2	0	0	0	2	1	0	0	0	1	1	0	0	0	1

AimTD LLC

TURNING MOVEMENT COUNTS



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 SB Ramps	LOCATION #:	9
	EAST & WEST:	Main	CONTROL:	SIGNAL

	NOTES:											
PCE Adjusted	Class	1	2	3	4	5	6			AM		▲ N	
	Factor	1	1.5	2	3	2	2			PM			
										MD	◄ W		E ►
										OTHER		S	
										OTHER		▼	

		NORTHBOUND SR-58 SB Ramps			SOUTHBOUND SR-58 SB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 1.5	ST 0.5	SR 1	EL X	ET 2	ER 0	WL 1	WT 2	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	4	0	0	0	37	71	10	40	0	161					0
	7:15 AM	0	0	0	3	0	1	0	52	30	19	51	0	155					0
	7:30 AM	0	0	0	9	0	2	0	55	32	15	38	0	150					0
	7:45 AM	0	0	0	6	0	0	0	49	53	6	55	0	168					0
	8:00 AM	0	0	0	0	0	1	0	49	32	10	61	0	152					0
	8:15 AM	0	0	0	6	0	0	0	70	47	4	94	0	221					0
	8:30 AM	0	0	0	7	0	0	0	98	38	7	68	0	218					0
	8:45 AM	0	0	0	3	0	0	0	83	45	10	69	0	210					0
	VOLUMES	0	0	0	37	0	4	0	492	347	81	474	0	1,433	0	0	0	0	0
	APPROACH %	0%	0%	0%	90%	0%	10%	0%	59%	41%	15%	85%	0%						
	APP/DEPART	0	/	0	41	/	427	838	/	529	554	/	478	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	16	0	1	0	299	162	31	291	0	800					
	APPROACH %	0%	0%	0%	94%	0%	6%	0%	65%	35%	10%	90%	0%						
	PEAK HR FACTOR		0.000			0.635			0.847			0.821		0.906					
	APP/DEPART	0	/	0	17	/	193	461	/	315	322	/	292	0					
PM	4:00 PM	0	0	0	7	0	3	0	49	28	10	109	0	206					0
	4:15 PM	0	0	0	4	0	1	0	45	22	8	128	0	208					0
	4:30 PM	0	0	0	4	3	1	0	56	35	6	127	0	231					0
	4:45 PM	0	0	0	16	0	0	0	50	31	12	118	0	226					0
	5:00 PM	0	0	0	4	3	2	0	45	25	8	125	0	211					0
	5:15 PM	0	0	0	2	0	0	0	50	30	11	104	0	197					0
	5:30 PM	0	0	0	9	1	1	0	57	34	13	104	0	218					0
	5:45 PM	0	0	0	4	0	1	0	50	24	2	89	0	170					0
	VOLUMES	0	0	0	49	7	9	0	400	228	70	904	0	1,665	0	0	0	0	0
	APPROACH %	0%	0%	0%	76%	11%	13%	0%	64%	36%	7%	93%	0%						
	APP/DEPART	0	/	0	65	/	304	627	/	449	973	/	912	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	27	6	4	0	195	113	34	498	0	876					
	APPROACH %	0%	0%	0%	74%	16%	10%	0%	63%	37%	6%	94%	0%						
	PEAK HR FACTOR		0.000			0.570			0.849			0.977		0.948					
	APP/DEPART	0	/	0	37	/	152	308	/	222	532	/	502	0					

SR-58 SB Ramps

NORTH SIDE

Main WEST SIDE

EAST SIDE **Main**

SOUTH SIDE

SR-58 SB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

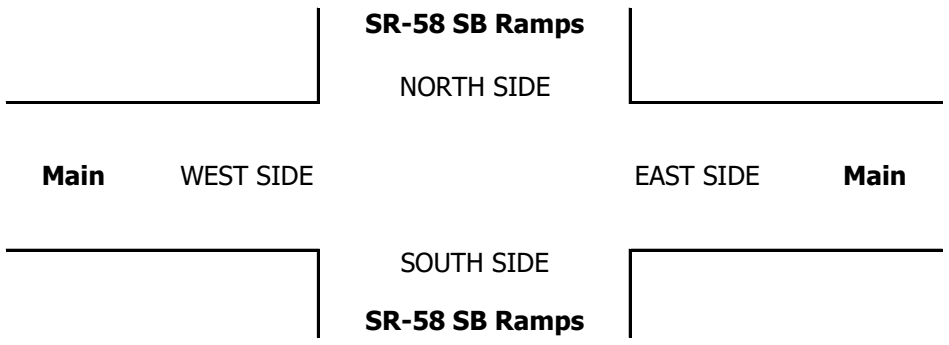
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 SB Ramps	LOCATION #:	9
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND SR-58 SB Ramps			SOUTHBOUND SR-58 SB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 1.5	ST 0.5	SR 1	EL X	ET 2	ER 0	WL 1	WT 2	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	2	0	0	0	32	69	4	34	0	141	0	0	0	0	0
	7:15 AM	0	0	0	3	0	1	0	29	28	2	40	0	103	0	0	0	0	0
	7:30 AM	0	0	0	6	0	2	0	34	29	9	26	0	106	0	0	0	0	0
	7:45 AM	0	0	0	3	0	0	0	44	42	3	41	0	133	0	0	0	0	0
	8:00 AM	0	0	0	0	0	1	0	38	27	4	42	0	112	0	0	0	0	0
	8:15 AM	0	0	0	3	0	0	0	61	41	1	66	0	172	0	0	0	0	0
	8:30 AM	0	0	0	5	0	0	0	78	28	4	53	0	168	0	0	0	0	0
	8:45 AM	0	0	0	3	0	0	0	70	33	1	53	0	160	0	0	0	0	0
	VOLUMES	0	0	0	25	0	4	0	386	297	28	355	0	1,095	0	0	0	0	0
	APPROACH %	0%	0%	0%	86%	0%	14%	0%	57%	43%	7%	93%	0%						
	APP/DEPART	0	/	0	29	/	325	683	/	411	383	/	359	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	11	0	1	0	247	129	10	214	0	612					
	APPROACH %	0%	0%	0%	92%	0%	8%	0%	66%	34%	4%	96%	0%						
	PEAK HR FACTOR		0.000			0.600			0.887			0.836		0.890					
	APP/DEPART	0	/	0	12	/	139	376	/	258	224	/	215	0					
PM	4:00 PM	0	0	0	2	0	0	0	47	23	3	100	0	175	0	0	0	0	0
	4:15 PM	0	0	0	1	0	1	0	43	20	4	117	0	186	0	0	0	0	0
	4:30 PM	0	0	0	2	0	1	0	48	28	3	121	0	203	0	0	0	0	0
	4:45 PM	0	0	0	8	0	0	0	48	31	3	112	0	202	0	0	0	0	0
	5:00 PM	0	0	0	2	0	0	0	38	23	5	111	0	179	0	0	0	0	0
	5:15 PM	0	0	0	2	0	0	0	46	28	4	93	0	173	0	0	0	0	0
	5:30 PM	0	0	0	6	1	1	0	50	29	4	96	0	187	0	0	0	0	0
	5:45 PM	0	0	0	4	0	1	0	45	24	2	83	0	159	0	0	0	0	0
	VOLUMES	0	0	0	27	1	4	0	365	206	28	833	0	1,464	0	0	0	0	0
	APPROACH %	0%	0%	0%	84%	3%	13%	0%	64%	36%	3%	97%	0%						
	APP/DEPART	0	/	0	32	/	235	571	/	392	861	/	837	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	13	0	2	0	177	102	15	461	0	770					
	APPROACH %	0%	0%	0%	87%	0%	13%	0%	63%	37%	3%	97%	0%						
	PEAK HR FACTOR		0.000			0.469			0.883			0.960		0.948					
	APP/DEPART	0	/	0	15	/	117	279	/	190	476	/	463	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 SB Ramps	LOCATION #:	9
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 2:	NOTES:
2-AXLE WORK VEHICLES/ TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND SR-58 SB Ramps			SOUTHBOUND SR-58 SB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
LANES:	NL X	NT X	NR X	SL 1.5	ST 0.5	SR 1	EL X	ET 2	ER 0	WL 1	WT 2	WR X	TOTAL	NB	SB	EB	WB	TTL
AM																		
7:00 AM	0	0	0	1	0	0	0	2	1	0	0	0	4	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	8	1	1	1	0	11	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	5	0	0	3	0	8	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	2	5	0	3	0	10	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	1	2	0	3	0	6	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	1	0	0	4	0	5	0	0	0	0	0
8:30 AM	0	0	0	1	0	0	0	2	2	0	4	0	9	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	2	2	0	3	0	7	0	0	0	0	0
VOLUMES	0	0	0	2	0	0	0	23	13	1	21	0	60	0	0	0	0	0
APPROACH %	0%	0%	0%	100%	0%	0%	0%	64%	36%	5%	95%	0%						
APP/DEPART	0	/	0	2	/	14	36	/	25	22	/	21	0					
BEGIN PEAK HR		8:00 AM																
VOLUMES	0	0	0	1	0	0	0	6	6	0	14	0	27					
APPROACH %	0%	0%	0%	100%	0%	0%	0%	50%	50%	0%	100%	0%						
PEAK HR FACTOR		0.000			0.250			0.750			0.875		0.750					
APP/DEPART	0	/	0	1	/	6	12	/	7	14	/	14	0					
PM																		
4:00 PM	0	0	0	0	0	0	0	0	3	0	2	0	5	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0
4:30 PM	0	0	0	1	0	0	0	0	1	0	4	0	6	0	0	0	0	0
4:45 PM	0	0	0	2	0	0	0	1	0	1	2	0	6	0	0	0	0	0
5:00 PM	0	0	0	1	0	1	0	3	0	0	4	0	9	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	1	0	0	6	0	7	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	3	3	0	5	0	11	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	1	0	0	2	0	3	0	0	0	0	0
VOLUMES	0	0	0	4	0	1	0	9	7	1	27	0	49	0	0	0	0	0
APPROACH %	0%	0%	0%	80%	0%	20%	0%	56%	44%	4%	96%	0%						
APP/DEPART	0	/	0	5	/	8	16	/	13	28	/	28	0					
BEGIN PEAK HR		4:15 PM																
VOLUMES	0	0	0	4	0	1	0	4	1	1	12	0	23					
APPROACH %	0%	0%	0%	80%	0%	20%	0%	80%	20%	8%	92%	0%						
PEAK HR FACTOR		0.000			0.625			0.417			0.813		0.639					
APP/DEPART	0	/	0	5	/	2	5	/	8	13	/	13	0					

SR-58 SB Ramps

NORTH SIDE

Main WEST SIDE EAST SIDE **Main**

SOUTH SIDE

SR-58 SB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

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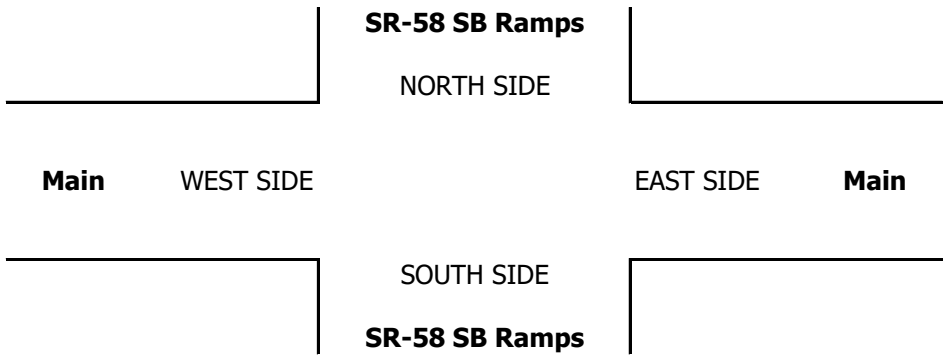
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 SB Ramps	LOCATION #:	9
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 3:	NOTES:
3-AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND SR-58 SB Ramps			SOUTHBOUND SR-58 SB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 1.5	ST 0.5	SR 1	EL X	ET 2	ER 0	WL 1	WT 2	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	5	1	0	3	0	9	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	83%	17%	0%	100%	0%						
	APP/DEPART	0	/	0	0	/	1	6	/	5	3	/	3	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	0	0	0	0	4	1	0	1	0	6					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	80%	20%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.000			0.625			0.250		0.750					
	APP/DEPART	0	/	0	0	/	1	5	/	4	1	/	1	0					
PM	4:00 PM	0	0	0	1	0	0	0	0	0	2	1	0	4	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	1	0	2	0	0	3	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	1	0	0	0	1	0	8	2	0	12	0	0	0	0	0
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	100%	0%	80%	20%	0%						
	APP/DEPART	0	/	0	1	/	8	1	/	2	10	/	2	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	0	0	0	0	1	0	4	1	0	6					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	80%	20%	0%						
	PEAK HR FACTOR		0.000			0.000			0.250			0.625		0.500					
	APP/DEPART	0	/	0	0	/	4	1	/	1	5	/	1	0					



INTERSECTION TURNING MOVEMENT COUNTS

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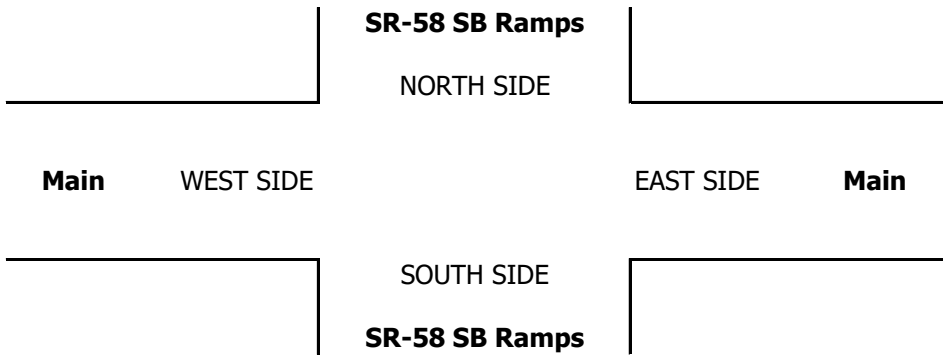
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 SB Ramps	LOCATION #:	9
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 4:	NOTES:
4 OR MORE AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND SR-58 SB Ramps			SOUTHBOUND SR-58 SB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 1.5	ST 0.5	SR 1	EL X	ET 2	ER 0	WL 1	WT 2	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	3	0	5	1	0	9	0	0	0	0	0
	7:30 AM	0	0	0	1	0	0	0	3	1	2	1	0	8	0	0	0	0	0
	7:45 AM	0	0	0	1	0	0	0	0	1	1	1	0	4	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	1	0	2	2	0	5	0	0	0	0	0
	8:15 AM	0	0	0	1	0	0	0	1	0	1	4	0	7	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	1	1	1	3	0	6	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	2	3	3	3	0	11	0	0	0	0	0
	VOLUMES	0	0	0	3	0	0	0	11	6	17	17	0	54	0	0	0	0	0
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	65%	35%	50%	50%	0%						
	APP/DEPART	0	/	0	3	/	23	17	/	14	34	/	17	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	1	0	0	0	5	4	7	12	0	29					
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	56%	44%	37%	63%	0%						
	PEAK HR FACTOR		0.000			0.250			0.450			0.792		0.659					
	APP/DEPART	0	/	0	1	/	11	9	/	6	19	/	12	0					
PM	4:00 PM	0	0	0	1	0	1	0	0	0	1	0	0	3	0	0	0	0	0
	4:15 PM	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:30 PM	0	0	0	0	1	0	0	0	1	1	0	0	3	0	0	0	0	0
	4:45 PM	0	0	0	1	0	0	0	0	0	1	1	0	3	0	0	0	0	0
	5:00 PM	0	0	0	0	1	0	0	0	0	1	2	0	4	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	5:30 PM	0	0	0	1	0	0	0	0	0	3	0	0	4	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0
	VOLUMES	0	0	0	4	2	1	0	1	1	8	4	0	21	0	0	0	0	0
	APPROACH %	0%	0%	0%	57%	29%	14%	0%	50%	50%	67%	33%	0%						
	APP/DEPART	0	/	0	7	/	11	2	/	5	12	/	5	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	2	2	0	0	0	1	3	3	0	11					
	APPROACH %	0%	0%	0%	50%	50%	0%	0%	0%	100%	50%	50%	0%						
	PEAK HR FACTOR		0.000			1.000			0.250			0.500		0.688					
	APP/DEPART	0	/	0	4	/	6	1	/	2	6	/	3	0					



INTERSECTION TURNING MOVEMENT COUNTS

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DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 SB Ramps	LOCATION #:	9
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND SR-58 SB Ramps			SOUTHBOUND SR-58 SB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 1.5	ST 0.5	SR 1	EL X	ET 2	ER 0	WL 1	WT 2	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	1	/	1	0	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	0	0	0	0	1	0	0	0	0	1					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.250			0.000		0.250					
	APP/DEPART	0	/	0	0	/	0	1	/	1	0	/	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	2	0	1	0	3	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	100%	0%						
	APP/DEPART	0	/	0	0	/	2	2	/	0	1	/	1	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	0	0	0	0	0	2	0	0	0	2					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.500			0.000		0.500					
	APP/DEPART	0	/	0	0	/	2	2	/	0	0	/	0	0					

SR-58 SB Ramps

NORTH SIDE

Main WEST SIDE EAST SIDE **Main**

SOUTH SIDE

SR-58 SB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

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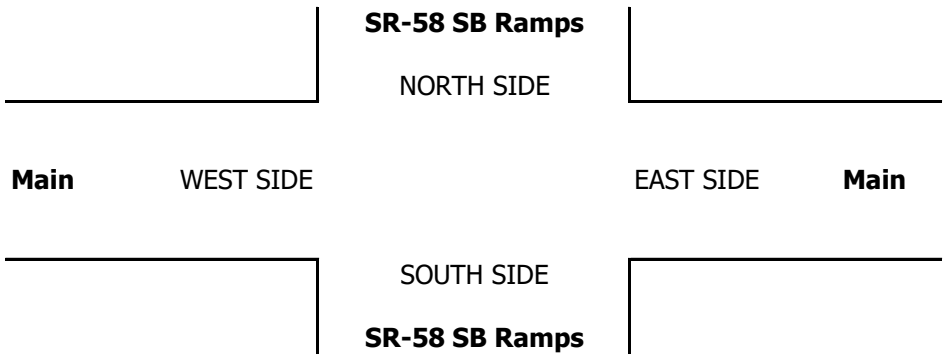
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 SB Ramps	LOCATION #:	9
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER

▲ N S ▼ ◄ W E ►

		NORTHBOUND SR-58 SB Ramps			SOUTHBOUND SR-58 SB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 1.5	ST 0.5	SR 1	EL X	ET 2	ER 0	WL 1	WT 2	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	1	0	0	2	0	3	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	2	0	0	2	0	4	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	1	0	0	2	0	3	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	1	0	0	4	0	5	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	1	3	0	5	0	9	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	6	2	0	0	0	8	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	13	5	0	15	0	33	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	72%	28%	0%	100%	0%						
	APP/DEPART	0	/	0	0	/	5	18	/	13	15	/	15	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	0	0	0	0	9	5	0	9	0	23					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	64%	36%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.000			0.438			0.450		0.639					
	APP/DEPART	0	/	0	0	/	5	14	/	9	9	/	9	0					
PM	4:00 PM	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	4	0	0	0	0	4	0	0	0	0	0
	4:45 PM	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	1	1	0	1	0	3	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	1	0	0	0	8	2	0	6	0	17	0	0	0	0	0
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	80%	20%	0%	100%	0%						
	APP/DEPART	0	/	0	1	/	2	10	/	9	6	/	6	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	1	0	0	0	5	1	0	4	0	11					
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	83%	17%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.250			0.375			0.250		0.688					
	APP/DEPART	0	/	0	1	/	1	6	/	6	4	/	4	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
Thu, May 11, 23	LOCATION:	Barstow	PROJECT #:	SC4025
	NORTH & SOUTH:	SR-58 NB Ramps	LOCATION #:	10
	EAST & WEST:	Main	CONTROL:	SIGNAL

NOTES:

AM
PM
MD
OTHER
OTHER

▲ N
◄ W
E ►
S ▼

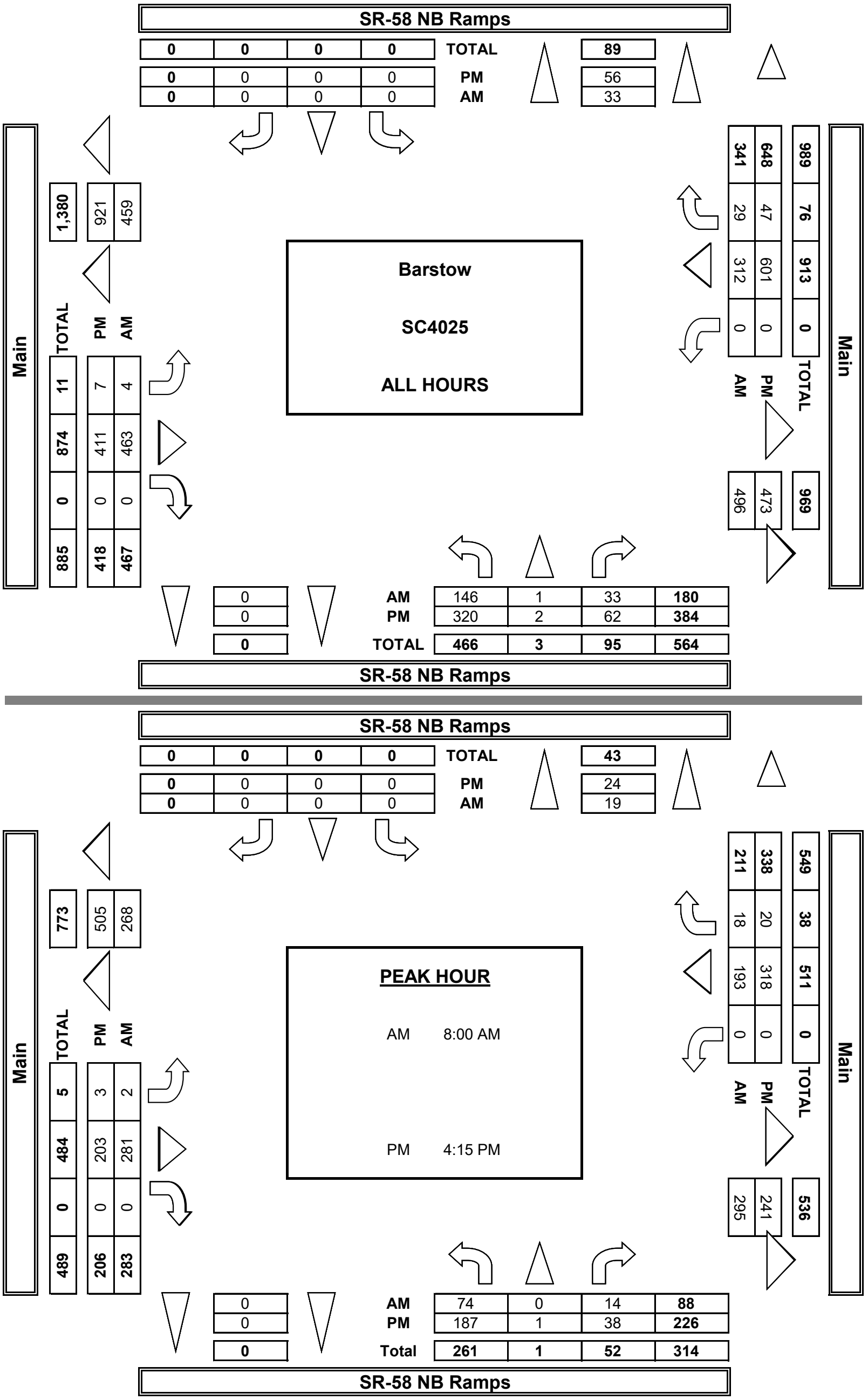
☑ Add U-Turns to Left Turns

	NORTHBOUND SR-58 NB Ramps			SOUTHBOUND SR-58 NB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB	TTL
LANES:	0.5	0.5	1	X	X	X	1	2	X	X	2	1		0	0	0	0	
AM 7:00 AM	13	0	2	0	0	0	1	37	0	0	29	3	85	0	0	0	0	0
7:15 AM	21	0	6	0	0	0	0	44	0	0	32	3	106	0	0	0	0	0
7:30 AM	14	0	4	0	0	0	0	51	0	0	30	2	101	0	0	0	0	0
7:45 AM	24	1	7	0	0	0	1	50	0	0	28	3	114	0	0	0	0	0
8:00 AM	16	0	0	0	0	0	0	43	0	0	41	2	102	0	0	0	0	0
8:15 AM	24	0	6	0	0	0	1	66	0	0	57	7	161	0	0	0	0	0
8:30 AM	16	0	3	0	0	0	1	93	0	0	48	4	165	0	0	1	0	1
8:45 AM	18	0	5	0	0	0	0	79	0	0	47	5	154	0	0	0	0	0
VOLUMES	146	1	33	0	0	0	4	463	0	0	312	29	988	0	0	1	0	1
APPROACH %	81%	1%	18%	0%	0%	0%	1%	99%	0%	0%	91%	9%						
APP/DEPART	180	/	33	0	/	0	467	/	496	341	/	459	0					
BEGIN PEAK HR		8:00 AM																
VOLUMES	74	0	14	0	0	0	2	281	0	0	193	18	582					
APPROACH %	84%	0%	16%	0%	0%	0%	1%	99%	0%	0%	91%	9%						
PEAK HR FACTOR		0.733			0.000			0.753			0.824		0.882					
APP/DEPART	88	/	19	0	/	0	283	/	295	211	/	268	0					
PM 4:00 PM	34	1	8	0	0	0	1	51	0	0	77	8	180	0	0	0	0	0
4:15 PM	47	0	10	0	0	0	0	46	0	0	83	7	193	0	0	0	0	0
4:30 PM	43	0	9	0	0	0	0	55	0	0	86	8	201	0	0	0	0	0
4:45 PM	50	0	7	0	0	0	1	59	0	0	72	4	193	0	0	0	0	0
5:00 PM	47	1	12	0	0	0	2	43	0	0	77	1	183	0	0	0	0	0
5:15 PM	29	0	7	0	0	0	1	49	0	0	78	2	166	0	0	0	0	0
5:30 PM	37	0	7	0	0	0	2	57	0	0	71	11	185	0	0	0	0	0
5:45 PM	33	0	2	0	0	0	0	51	0	0	57	6	149	0	0	0	0	0
VOLUMES	320	2	62	0	0	0	7	411	0	0	601	47	1,450	0	0	0	0	0
APPROACH %	83%	1%	16%	0%	0%	0%	2%	98%	0%	0%	93%	7%						
APP/DEPART	384	/	56	0	/	0	418	/	473	648	/	921	0					
BEGIN PEAK HR		4:15 PM																
VOLUMES	187	1	38	0	0	0	3	203	0	0	318	20	770					
APPROACH %	83%	0%	17%	0%	0%	0%	1%	99%	0%	0%	94%	6%						
PEAK HR FACTOR		0.942			0.000			0.858			0.899		0.958					
APP/DEPART	226	/	24	0	/	0	206	/	241	338	/	505	0					

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
	4:15 PM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1
	TOTAL	2	1	0	0	3	1	0	0	0	1	1	1	0	0	2

AimTD LLC

TURNING MOVEMENT COUNTS



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 NB Ramps	LOCATION #:	10
	EAST & WEST:	Main	CONTROL:	SIGNAL

	NOTES:									AM		▲ N	
PCE Adjusted	Class	1	2	3	4	5	6			PM			
	Factor	1	1.5	2	3	2	2			MD	◄ W		E ►
										OTHER		S ▼	
										OTHER			

		NORTHBOUND SR-58 NB Ramps			SOUTHBOUND SR-58 NB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 0.5	NT 0.5	NR 1	SL X	ST X	SR X	EL 1	ET 2	ER X	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	15	0	4	0	0	0	2	39	0	0	35	3	98					0
	7:15 AM	23	0	10	0	0	0	0	55	0	0	46	3	137					0
	7:30 AM	15	0	6	0	0	0	0	64	0	0	39	3	126					0
	7:45 AM	26	3	10	0	0	0	1	54	0	0	35	3	132					0
	8:00 AM	19	0	0	0	0	0	0	49	0	0	52	4	123					0
	8:15 AM	26	0	12	0	0	0	3	71	0	0	73	12	196					0
	8:30 AM	19	0	3	0	0	0	1	104	0	0	56	5	187					0
	8:45 AM	19	0	9	0	0	0	0	86	0	0	61	5	180					0
	VOLUMES	160	3	54	0	0	0	7	520	0	0	395	38	1,177	0	0	0	0	0
	APPROACH %	74%	1%	25%	0%	0%	0%	1%	99%	0%	0%	91%	9%						
	APP/DEPART	217	/	48	0	/	0	527	/	574	433	/	555	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	81	0	24	0	0	0	4	309	0	0	241	26	685					
	APPROACH %	77%	0%	23%	0%	0%	0%	1%	99%	0%	0%	90%	10%						
	PEAK HR FACTOR		0.700			0.000			0.748			0.790		0.875					
	APP/DEPART	105	/	30	0	/	0	313	/	333	267	/	322	0					
PM	4:00 PM	35	3	11	0	0	0	1	55	0	0	84	11	200					0
	4:15 PM	48	0	22	0	0	0	0	49	0	0	90	10	218					0
	4:30 PM	43	0	19	0	0	0	0	60	0	0	90	8	220					0
	4:45 PM	53	0	15	0	0	0	2	63	0	0	77	5	214					0
	5:00 PM	48	3	20	0	0	0	3	46	0	0	86	1	205					0
	5:15 PM	30	0	19	0	0	0	1	51	0	0	86	2	188					0
	5:30 PM	39	0	13	0	0	0	2	62	0	0	78	18	211					0
	5:45 PM	34	0	4	0	0	0	0	54	0	0	60	8	159					0
	VOLUMES	328	6	123	0	0	0	8	438	0	0	649	63	1,613	0	0	0	0	0
	APPROACH %	72%	1%	27%	0%	0%	0%	2%	98%	0%	0%	91%	9%						
	APP/DEPART	457	/	77	0	/	0	446	/	561	711	/	976	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	191	3	76	0	0	0	4	217	0	0	342	24	857					
	APPROACH %	71%	1%	28%	0%	0%	0%	2%	98%	0%	0%	93%	7%						
	PEAK HR FACTOR		0.956			0.000			0.857			0.920		0.976					
	APP/DEPART	270	/	31	0	/	0	221	/	293	366	/	533	0					

SR-58 NB Ramps

NORTH SIDE

Main WEST SIDE

EAST SIDE **Main**

SOUTH SIDE

SR-58 NB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 NB Ramps	LOCATION #:	10
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND SR-58 NB Ramps			SOUTHBOUND SR-58 NB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 0.5	NT 0.5	NR 1	SL X	ST X	SR X	EL 1	ET 2	ER X	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	12	0	1	0	0	0	0	34	0	0	26	3	76	0	0	0	0	0
	7:15 AM	20	0	4	0	0	0	0	32	0	0	22	3	81	0	0	0	0	0
	7:30 AM	13	0	3	0	0	0	0	40	0	0	23	1	80	0	0	0	0	0
	7:45 AM	22	0	5	0	0	0	1	46	0	0	22	3	99	0	0	0	0	0
	8:00 AM	14	0	0	0	0	0	0	38	0	0	32	1	85	0	0	0	0	0
	8:15 AM	22	0	3	0	0	0	0	62	0	0	45	3	135	0	0	0	0	0
	8:30 AM	14	0	3	0	0	0	1	82	0	0	42	2	144	0	0	1	0	1
	8:45 AM	17	0	3	0	0	0	0	73	0	0	38	5	136	0	0	0	0	0
	VOLUMES	134	0	22	0	0	0	2	407	0	0	250	21	836	0	0	1	0	1
	APPROACH %	86%	0%	14%	0%	0%	0%	0%	100%	0%	0%	92%	8%						
	APP/DEPART	156	/	22	0	/	0	409	/	429	271	/	385	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	67	0	9	0	0	0	0	255	0	0	157	11	500					
	APPROACH %	88%	0%	12%	0%	0%	0%	0%	100%	0%	0%	93%	7%						
	PEAK HR FACTOR		0.760			0.000			0.771			0.875		0.868					
	APP/DEPART	76	/	11	0	/	0	256	/	264	168	/	225	0					
PM	4:00 PM	33	0	6	0	0	0	1	48	0	0	70	6	164	0	0	0	0	0
	4:15 PM	46	0	4	0	0	0	0	44	0	0	76	4	174	0	0	0	0	0
	4:30 PM	43	0	4	0	0	0	0	50	0	0	81	8	186	0	0	0	0	0
	4:45 PM	48	0	3	0	0	0	0	55	0	0	67	2	175	0	0	0	0	0
	5:00 PM	46	0	8	0	0	0	1	39	0	0	70	1	165	0	0	0	0	0
	5:15 PM	28	0	1	0	0	0	1	47	0	0	69	2	148	0	0	0	0	0
	5:30 PM	33	0	4	0	0	0	2	52	0	0	67	6	164	0	0	0	0	0
	5:45 PM	32	0	1	0	0	0	0	49	0	0	55	5	142	0	0	0	0	0
	VOLUMES	309	0	31	0	0	0	5	384	0	0	555	34	1,318	0	0	0	0	0
	APPROACH %	91%	0%	9%	0%	0%	0%	1%	99%	0%	0%	94%	6%						
	APP/DEPART	340	/	39	0	/	0	389	/	415	589	/	864	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	183	0	19	0	0	0	1	188	0	0	294	15	700					
	APPROACH %	91%	0%	9%	0%	0%	0%	1%	99%	0%	0%	95%	5%						
	PEAK HR FACTOR		0.935			0.000			0.859			0.868		0.941					
	APP/DEPART	202	/	16	0	/	0	189	/	207	309	/	477	0					

SR-58 NB Ramps

NORTH SIDE

Main WEST SIDE

EAST SIDE **Main**

SOUTH SIDE

SR-58 NB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 NB Ramps	LOCATION #:	10
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 2:	NOTES:
2-AXLE WORK VEHICLES/ TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND SR-58 NB Ramps			SOUTHBOUND SR-58 NB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 0.5	NT 0.5	NR 1	SL X	ST X	SR X	EL 1	ET 2	ER X	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	8	0	0	2	0	10	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	5	0	0	3	0	8	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	2	0	0	3	0	5	0	0	0	0	0
	8:00 AM	1	0	0	0	0	0	0	1	0	0	2	0	4	0	0	0	0	0
	8:15 AM	1	0	0	0	0	0	0	1	0	0	3	2	7	0	0	0	0	0
	8:30 AM	1	0	0	0	0	0	0	3	0	0	3	2	9	0	0	0	0	0
	8:45 AM	1	0	0	0	0	0	0	2	0	0	2	0	5	0	0	0	0	0
	VOLUMES	4	0	0	0	0	0	0	25	0	0	18	4	51	0	0	0	0	0
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	82%	18%						
	APP/DEPART	4	/	4	0	/	0	25	/	25	22	/	22	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	4	0	0	0	0	0	0	7	0	0	10	4	25					
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	71%	29%						
	PEAK HR FACTOR		1.000			0.000			0.583			0.700		0.694					
	APP/DEPART	4	/	4	0	/	0	7	/	7	14	/	14	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0	0	0
	4:15 PM	1	0	0	0	0	0	0	0	0	0	1	2	4	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	1	0	0	4	0	5	0	0	0	0	0
	4:45 PM	1	0	0	0	0	0	1	2	0	0	2	2	8	0	0	0	0	0
	5:00 PM	1	0	0	0	0	0	1	3	0	0	3	0	8	0	0	0	0	0
	5:15 PM	1	0	0	0	0	0	0	1	0	0	5	0	7	0	0	0	0	0
	5:30 PM	4	0	0	0	0	0	0	3	0	0	1	2	10	0	0	0	0	0
	5:45 PM	1	0	0	0	0	0	0	1	0	0	1	0	3	0	0	0	0	0
	VOLUMES	9	0	0	0	0	0	2	11	0	0	19	7	48	0	0	0	0	0
	APPROACH %	100%	0%	0%	0%	0%	0%	15%	85%	0%	0%	73%	27%						
	APP/DEPART	9	/	9	0	/	0	13	/	11	26	/	28	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	3	0	0	0	0	0	2	6	0	0	10	4	25					
	APPROACH %	100%	0%	0%	0%	0%	0%	25%	75%	0%	0%	71%	29%						
	PEAK HR FACTOR		0.750			0.000			0.500			0.875		0.781					
	APP/DEPART	3	/	6	0	/	0	8	/	6	14	/	13	0					

SR-58 NB Ramps

NORTH SIDE

Main WEST SIDE EAST SIDE **Main**

SOUTH SIDE

SR-58 NB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 NB Ramps	LOCATION #:	10
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 3:	NOTES:
3-AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND SR-58 NB Ramps			SOUTHBOUND SR-58 NB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 0.5	NT 0.5	NR 1	SL X	ST X	SR X	EL 1	ET 2	ER X	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	7:45 AM	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0
	VOLUMES	1	0	0	0	0	0	1	4	0	0	2	1	9	0	0	0	0	0
	APPROACH %	100%	0%	0%	0%	0%	0%	20%	80%	0%	0%	67%	33%						
	APP/DEPART	1	/	2	0	/	0	5	/	4	3	/	3	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	0	0	0	0	4	0	0	1	0	5					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.000			1.000			0.250		0.625					
	APP/DEPART	0	/	0	0	/	0	4	/	4	1	/	1	0					
PM	4:00 PM	0	0	1	0	0	0	0	1	0	0	3	0	5	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	1	0	0	2	0	3	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	1	0	0	0	0	2	0	0	10	0	13	0	0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	APP/DEPART	1	/	0	0	/	0	2	/	3	10	/	10	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	0	0	0	0	1	0	0	5	0	6					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.000			0.250			0.625		0.500					
	APP/DEPART	0	/	0	0	/	0	1	/	1	5	/	5	0					

SR-58 NB Ramps

NORTH SIDE

Main WEST SIDE

EAST SIDE **Main**

SOUTH SIDE

SR-58 NB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

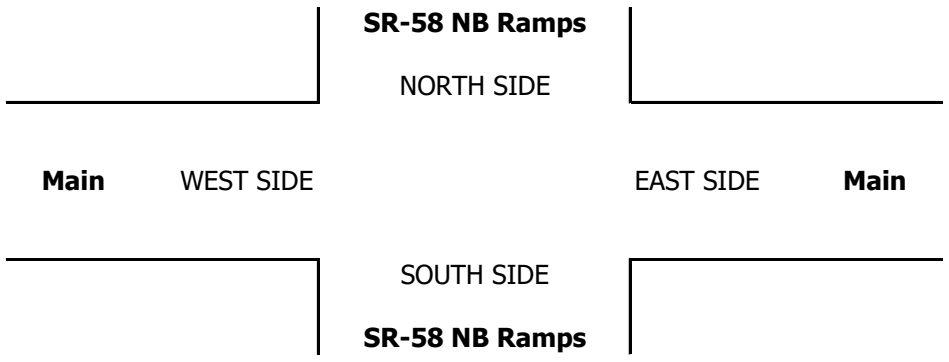
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 NB Ramps	LOCATION #:	10
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 4:	NOTES:
4 OR MORE AXLE TRUCKS	

AM / PM / MD / OTHER / OTHER

▲ N ▼ S ◄ W E ►

		NORTHBOUND SR-58 NB Ramps			SOUTHBOUND SR-58 NB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 0.5	NT 0.5	NR 1	SL X	ST X	SR X	EL 1	ET 2	ER X	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	1	0	1	0	0	0	0	0	0	0	3	0	5	0	0	0	0	0
	7:15 AM	1	0	2	0	0	0	0	3	0	0	5	0	11	0	0	0	0	0
	7:30 AM	0	0	1	0	0	0	0	4	0	0	3	0	8	0	0	0	0	0
	7:45 AM	0	1	1	0	0	0	0	1	0	0	2	0	5	0	0	0	0	0
	8:00 AM	1	0	0	0	0	0	0	1	0	0	3	1	6	0	0	0	0	0
	8:15 AM	0	0	3	0	0	0	1	1	0	0	5	2	12	0	0	0	0	0
	8:30 AM	1	0	0	0	0	0	0	1	0	0	3	0	5	0	0	0	0	0
	8:45 AM	0	0	2	0	0	0	0	2	0	0	6	0	10	0	0	0	0	0
	VOLUMES	4	1	10	0	0	0	1	13	0	0	30	3	62	0	0	0	0	0
	APPROACH %	27%	7%	67%	0%	0%	0%	7%	93%	0%	0%	91%	9%						
	APP/DEPART	15	/	5	0	/	0	14	/	23	33	/	34	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	2	0	5	0	0	0	1	5	0	0	17	3	33					
	APPROACH %	29%	0%	71%	0%	0%	0%	17%	83%	0%	0%	85%	15%						
	PEAK HR FACTOR		0.583			0.000			0.750			0.714		0.688					
	APP/DEPART	7	/	4	0	/	0	6	/	10	20	/	19	0					
PM	4:00 PM	0	1	1	0	0	0	0	1	0	0	1	1	5	0	0	0	0	0
	4:15 PM	0	0	6	0	0	0	0	1	0	0	0	1	8	0	0	0	0	0
	4:30 PM	0	0	5	0	0	0	0	0	0	0	1	0	6	0	0	0	0	0
	4:45 PM	1	0	4	0	0	0	0	1	0	0	1	0	7	0	0	0	0	0
	5:00 PM	0	1	4	0	0	0	0	0	0	0	3	0	8	0	0	0	0	0
	5:15 PM	0	0	6	0	0	0	0	0	0	0	1	0	7	0	0	0	0	0
	5:30 PM	0	0	3	0	0	0	0	1	0	0	3	3	10	0	0	0	0	0
	5:45 PM	0	0	1	0	0	0	0	1	0	0	1	1	4	0	0	0	0	0
	VOLUMES	1	2	30	0	0	0	0	5	0	0	11	6	55	0	0	0	0	0
	APPROACH %	3%	6%	91%	0%	0%	0%	0%	100%	0%	0%	65%	35%						
	APP/DEPART	33	/	8	0	/	0	5	/	35	17	/	12	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	1	1	19	0	0	0	0	2	0	0	5	1	29					
	APPROACH %	5%	5%	90%	0%	0%	0%	0%	100%	0%	0%	83%	17%						
	PEAK HR FACTOR		0.875			0.000			0.500			0.500		0.906					
	APP/DEPART	21	/	2	0	/	0	2	/	21	6	/	6	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

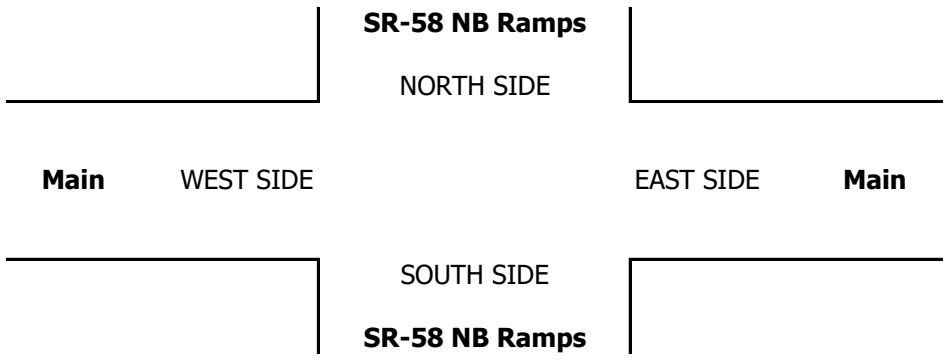
DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 NB Ramps	LOCATION #:	10
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND SR-58 NB Ramps			SOUTHBOUND SR-58 NB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 0.5	NT 0.5	NR 1	SL X	ST X	SR X	EL 1	ET 2	ER X	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	1	/	1	0	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	0	0	0	0	1	0	0	0	0	1					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.250			0.000		0.250					
	APP/DEPART	0	/	0	0	/	0	1	/	1	0	/	0	0					
PM	4:00 PM	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	1	/	0	0	/	0	0	/	0	0	/	1	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

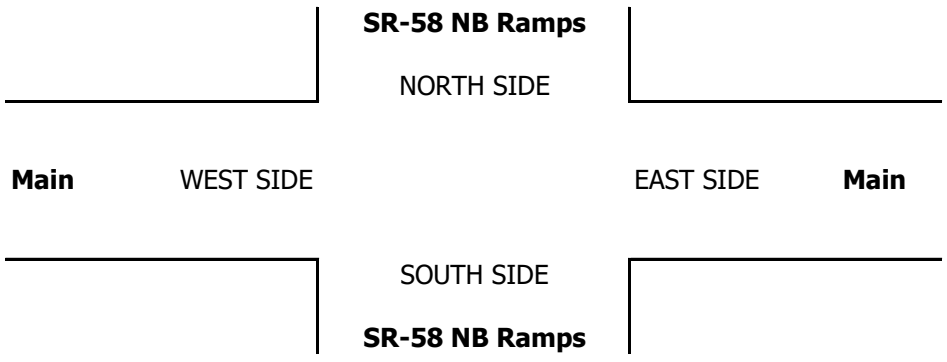
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
5/11/23	LOCATION:	Barstow	PROJECT #:	SC4025
THURSDAY	NORTH & SOUTH:	SR-58 NB Ramps	LOCATION #:	10
	EAST & WEST:	Main	CONTROL:	SIGNAL

CLASS 6:	NOTES:
BUSES	

AM		▲ N	
PM			
MD	◄ W		E ►
OTHER		S ▼	
OTHER			

		NORTHBOUND SR-58 NB Ramps			SOUTHBOUND SR-58 NB Ramps			EASTBOUND Main			WESTBOUND Main				U-TURNS				
	LANES:	NL 0.5	NT 0.5	NR 1	SL X	ST X	SR X	EL 1	ET 2	ER X	WL X	WT 2	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	1	0	0	2	0	3	0	0	0	0	0
	7:30 AM	1	0	0	0	0	0	0	2	0	0	1	0	4	0	0	0	0	0
	7:45 AM	1	0	1	0	0	0	0	1	0	0	1	0	4	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	1	0	0	4	0	5	0	0	0	0	0
	8:15 AM	1	0	0	0	0	0	0	1	0	0	4	0	6	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	6	0	0	0	0	6	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	VOLUMES	3	0	1	0	0	0	0	13	0	0	12	0	29	0	0	0	0	0
	APPROACH %	75%	0%	25%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	APP/DEPART	4	/	0	0	/	0	13	/	14	12	/	15	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	1	0	0	0	0	0	0	9	0	0	8	0	18					
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.250			0.000			0.375			0.500		0.750					
	APP/DEPART	1	/	0	0	/	0	9	/	9	8	/	9	0					
PM	4:00 PM	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	4	0	0	0	0	4	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	9	0	0	6	0	15	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	APP/DEPART	0	/	0	0	/	0	9	/	9	6	/	6	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	0	0	0	0	6	0	0	4	0	10					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.000			0.375			0.250		0.625					
	APP/DEPART	0	/	0	0	/	0	6	/	6	4	/	4	0					



Appendix C
LOS Worksheets

Intersection	
Intersection Delay, s/veh	7.1
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	5	31	9	13	11	30
Future Vol, veh/h	5	31	9	13	11	30
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	6	36	10	15	13	34
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	6.9	7.6	7.1
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	11	30	5	31	9	13
LT Vol	11	0	0	0	9	0
Through Vol	0	0	5	0	0	13
RT Vol	0	30	0	31	0	0
Lane Flow Rate	13	34	6	36	10	15
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.018	0.037	0.007	0.039	0.015	0.019
Departure Headway (Hd)	5.112	3.911	4.595	3.894	5.103	4.603
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	699	912	778	918	701	777
Service Time	2.851	1.65	2.327	1.626	2.834	2.334
HCM Lane V/C Ratio	0.019	0.037	0.008	0.039	0.014	0.019
HCM Control Delay, s/veh	7.9	6.8	7.4	6.8	7.9	7.4
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.1	0.1	0	0.1	0	0.1

Intersection	
Intersection Delay, s/veh	7.6
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	0	4	0	0	0	0	39	5	16	23	0
Future Vol, veh/h	1	0	4	0	0	0	0	39	5	16	23	0
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	0	5	0	0	0	0	45	6	19	27	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7	7.5	7.7
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	100%	0%	0%	100%	0%
Vol Thru, %	89%	0%	100%	0%	0%	100%
Vol Right, %	11%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	44	1	0	4	16	23
LT Vol	0	1	0	0	16	0
Through Vol	39	0	0	0	0	23
RT Vol	5	0	0	4	0	0
Lane Flow Rate	51	1	0	5	19	27
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.064	0.002	0	0.005	0.026	0.034
Departure Headway (Hd)	4.493	5.165	4.665	3.964	5.08	4.58
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	796	687	0	892	704	781
Service Time	2.226	2.937	2.436	1.735	2.814	2.313
HCM Lane V/C Ratio	0.064	0.001	0	0.006	0.027	0.035
HCM Control Delay, s/veh	7.5	7.9	7.4	6.8	8	7.5
HCM Lane LOS	A	A	N	A	A	A
HCM 95th-tile Q	0.2	0	0	0	0.1	0.1

Intersection	
Int Delay, s/veh	4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	14	10	28	3	9	11	43	36	3	21	3
Future Vol, veh/h	3	14	10	28	3	9	11	43	36	3	21	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	3	15	11	30	3	10	12	46	39	3	23	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	102	139	24	126	122	66	26	0	0	85	0	0
Stage 1	31	31	-	89	89	-	-	-	-	-	-	-
Stage 2	72	109	-	37	32	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	883	755	1058	853	773	1004	1602	-	-	1524	-	-
Stage 1	991	874	-	923	825	-	-	-	-	-	-	-
Stage 2	943	809	-	984	872	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	863	748	1058	819	765	1004	1602	-	-	1524	-	-
Mov Cap-2 Maneuver	863	748	-	819	765	-	-	-	-	-	-	-
Stage 1	989	872	-	916	819	-	-	-	-	-	-	-
Stage 2	924	803	-	955	870	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.37	9.46	0.89	0.82
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1602	-	-	853	850	1524	-	-
HCM Lane V/C Ratio	0.007	-	-	0.034	0.051	0.002	-	-
HCM Ctrl Dly (s/v)	7.3	-	-	9.4	9.5	7.4	-	-
HCM Lane LOS	A	-	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.2	0	-	-

Intersection	
Int Delay, s/veh	1.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	1	12	0	11	0	80	16	15	42	0
Future Vol, veh/h	0	0	1	12	0	11	0	80	16	15	42	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	1	16	0	14	0	105	21	20	55	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	200	221	55	211	211	116	55	0	0	126	0	0
Stage 1	95	95	-	116	116	-	-	-	-	-	-	-
Stage 2	105	126	-	95	95	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	763	681	1017	751	690	942	1563	-	-	1473	-	-
Stage 1	917	820	-	894	804	-	-	-	-	-	-	-
Stage 2	905	795	-	917	820	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	741	672	1017	740	681	942	1563	-	-	1473	-	-
Mov Cap-2 Maneuver	741	672	-	740	681	-	-	-	-	-	-	-
Stage 1	905	809	-	894	804	-	-	-	-	-	-	-
Stage 2	891	795	-	904	809	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	8.54	9.53	0	1.97
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1563	-	-	1017	824	1473	-	-
HCM Lane V/C Ratio	-	-	-	0.001	0.037	0.013	-	-
HCM Ctrl Dly (s/v)	0	-	-	8.5	9.5	7.5	-	-
HCM Lane LOS	A	-	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.1	0	-	-

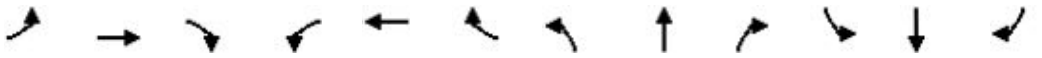
Intersection	
Int Delay, s/veh	2.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	3	13	27	3	9	5	93	19	4	105	0
Future Vol, veh/h	0	3	13	27	3	9	5	93	19	4	105	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	200	-	0	115	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	78	78	78	78	78	78	78	78	78	78	78	78
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	4	17	35	4	12	6	119	24	5	135	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	279	301	135	279	277	119	135	0	0	144	0	0
Stage 1	145	145	-	132	132	-	-	-	-	-	-	-
Stage 2	134	156	-	147	145	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	678	615	920	678	634	938	1462	-	-	1451	-	-
Stage 1	863	781	-	876	791	-	-	-	-	-	-	-
Stage 2	874	772	-	861	781	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	660	610	920	656	629	938	1462	-	-	1451	-	-
Mov Cap-2 Maneuver	660	610	-	656	629	-	-	-	-	-	-	-
Stage 1	860	778	-	872	787	-	-	-	-	-	-	-
Stage 2	855	769	-	838	778	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.39	10.52	0.32	0.27
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1462	-	-	840	702	1451	-	-
HCM Lane V/C Ratio	0.004	-	-	0.024	0.071	0.004	-	-
HCM Ctrl Dly (s/v)	7.5	-	-	9.4	10.5	7.5	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.2	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	13	135	19	59	57	40	13	57	41	66	32	10
Future Volume (veh/h)	13	135	19	59	57	40	13	57	41	66	32	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	14	148	0	65	63	0	14	63	45	73	35	11
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	33	489		124	671		33	328	214	135	405	343
Arrive On Green	0.02	0.14	0.00	0.07	0.19	0.00	0.02	0.16	0.16	0.07	0.21	0.21
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	2095	1365	1810	1900	1610
Grp Volume(v), veh/h	14	148	0	65	63	0	14	53	55	73	35	11
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1654	1810	1900	1610
Q Serve(g_s), s	0.2	1.2	0.0	1.1	0.5	0.0	0.2	0.8	0.9	1.2	0.5	0.2
Cycle Q Clear(g_c), s	0.2	1.2	0.0	1.1	0.5	0.0	0.2	0.8	0.9	1.2	0.5	0.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.82	1.00		1.00
Lane Grp Cap(c), veh/h	33	489		124	671		33	283	259	135	405	343
V/C Ratio(X)	0.42	0.30		0.52	0.09		0.42	0.19	0.21	0.54	0.09	0.03
Avail Cap(c_a), veh/h	369	3906		709	4585		369	2349	2153	766	2890	2449
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	15.5	12.4	0.0	14.3	10.8	0.0	15.5	11.7	11.7	14.2	10.1	9.9
Incr Delay (d2), s/veh	8.3	0.3	0.0	3.4	0.1	0.0	8.3	0.3	0.4	3.3	0.1	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.3	0.0	0.4	0.1	0.0	0.1	0.2	0.2	0.4	0.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	23.8	12.8	0.0	17.7	10.8	0.0	23.8	12.0	12.1	17.6	10.1	10.0
LnGrp LOS	C	B		B	B		C	B	B	B	B	A
Approach Vol, veh/h		162			128			122			119	
Approach Delay, s/veh		13.7			14.3			13.4			14.7	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.9	9.5	6.7	8.8	5.1	11.3	5.1	10.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	3.2	2.9	3.1	3.2	2.2	2.5	2.2	2.5
Green Ext Time (p_c), s	0.1	0.5	0.1	0.8	0.0	0.2	0.0	0.3

Intersection Summary	
HCM 7th Control Delay, s/veh	14.0
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	4	0	0	107	109	1
Future Vol, veh/h	4	0	0	107	109	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	25	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	0	0	116	118	1

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	235	119	120	0	-	0
Stage 1	119	-	-	-	-	-
Stage 2	116	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	757	938	1481	-	-	-
Stage 1	911	-	-	-	-	-
Stage 2	914	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	757	938	1481	-	-	-
Mov Cap-2 Maneuver	757	-	-	-	-	-
Stage 1	911	-	-	-	-	-
Stage 2	914	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	9.78	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1481	-	757	-	-	-
HCM Lane V/C Ratio	-	-	0.006	-	-	-
HCM Ctrl Dly (s/v)	0	-	9.8	0	-	-
HCM Lane LOS	A	-	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-	-

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	12	1	24	1	0	0	25	95	9	5	81	23
Future Vol, veh/h	12	1	24	1	0	0	25	95	9	5	81	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	13	1	26	1	0	0	27	103	10	5	88	25

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	269	279	57	213	282	103	113	0	0	113	0	0
Stage 1	111	111	-	158	158	-	-	-	-	-	-	-
Stage 2	158	167	-	55	124	-	-	-	-	-	-	-
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	677	633	1004	739	630	957	1489	-	-	1489	-	-
Stage 1	888	807	-	849	771	-	-	-	-	-	-	-
Stage 2	849	764	-	956	797	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	662	618	1004	702	616	957	1489	-	-	1489	-	-
Mov Cap-2 Maneuver	662	618	-	702	616	-	-	-	-	-	-	-
Stage 1	884	804	-	833	756	-	-	-	-	-	-	-
Stage 2	833	749	-	926	794	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.46	10.13	1.45	0.34
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1489	-	-	848	702	1489	-	-
HCM Lane V/C Ratio	0.018	-	-	0.047	0.002	0.004	-	-
HCM Ctrl Dly (s/v)	7.5	-	-	9.5	10.1	7.4	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	0	0	-	-

Intersection	
Int Delay, s/veh	3.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	3	95	57	126	101	5
Future Vol, veh/h	3	95	57	126	101	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	3	103	62	137	110	5

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	305	58	115	0	-	0
Stage 1	113	-	-	-	-	-
Stage 2	192	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	668	1003	1486	-	-	-
Stage 1	906	-	-	-	-	-
Stage 2	827	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	640	1003	1486	-	-	-
Mov Cap-2 Maneuver	678	-	-	-	-	-
Stage 1	868	-	-	-	-	-
Stage 2	827	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	9.04	2.34	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1486	-	678	1003	-	-
HCM Lane V/C Ratio	0.042	-	0.005	0.103	-	-
HCM Ctrl Dly (s/v)	7.5	-	10.3	9	-	-
HCM Lane LOS	A	-	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0	0.3	-	-

Intersection	
Int Delay, s/veh	3.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	274	18	77	249	29	6	0	145	23	0	6
Future Vol, veh/h	1	274	18	77	249	29	6	0	145	23	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	298	20	84	271	32	7	0	158	25	0	7

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	302	0	0	317	0	0	613	779	159	605	773	151
Stage 1	-	-	-	-	-	-	310	310	-	454	454	-
Stage 2	-	-	-	-	-	-	303	470	-	151	320	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1270	-	-	1254	-	-	381	329	865	386	332	874
Stage 1	-	-	-	-	-	-	681	663	-	561	573	-
Stage 2	-	-	-	-	-	-	687	564	-	842	656	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1270	-	-	1254	-	-	350	305	865	292	307	874
Mov Cap-2 Maneuver	-	-	-	-	-	-	350	305	-	292	307	-
Stage 1	-	-	-	-	-	-	680	662	-	520	531	-
Stage 2	-	-	-	-	-	-	632	523	-	688	656	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0.03	1.75	10.51	16.71
HCM LOS			B	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	817	1270	-	-	1254	-	-	339
HCM Lane V/C Ratio	0.201	0.001	-	-	0.067	-	-	0.093
HCM Ctrl Dly (s/v)	10.5	7.8	-	-	8.1	-	-	16.7
HCM Lane LOS	B	A	-	-	A	-	-	C
HCM 95th %tile Q(veh)	0.7	0	-	-	0.2	-	-	0.3

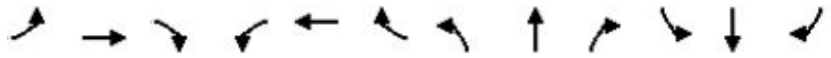
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	35	394	13	47	326	147	4	0	48	220	5	24
Future Volume (veh/h)	35	394	13	47	326	147	4	0	48	220	5	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	38	424	14	51	351	158	4	0	52	241	0	26
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	78	812	27	98	852	360	229	241	204	490	0	218
Arrive On Green	0.04	0.23	0.23	0.05	0.24	0.24	0.13	0.00	0.13	0.14	0.00	0.14
Sat Flow, veh/h	1810	3566	118	1810	3569	1510	1810	1900	1610	3619	0	1610
Grp Volume(v), veh/h	38	214	224	51	339	170	4	0	52	241	0	26
Grp Sat Flow(s),veh/h/ln	1810	1805	1878	1810	1729	1621	1810	1900	1610	1810	0	1610
Q Serve(g_s), s	0.8	4.1	4.1	1.1	3.3	3.5	0.1	0.0	1.2	2.4	0.0	0.6
Cycle Q Clear(g_c), s	0.8	4.1	4.1	1.1	3.3	3.5	0.1	0.0	1.2	2.4	0.0	0.6
Prop In Lane	1.00		0.06	1.00		0.93	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	78	411	428	98	825	387	229	241	204	490	0	218
V/C Ratio(X)	0.49	0.52	0.52	0.52	0.41	0.44	0.02	0.00	0.25	0.49	0.00	0.12
Avail Cap(c_a), veh/h	481	1578	1642	573	3198	1499	1077	1131	959	2888	0	1285
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	18.5	13.4	13.4	18.2	12.7	12.8	15.1	0.0	15.6	15.8	0.0	15.0
Incr Delay (d2), s/veh	4.6	1.0	1.0	4.2	0.3	0.8	0.0	0.0	0.7	0.8	0.0	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.4	1.4	0.5	1.0	1.0	0.0	0.0	0.4	0.9	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	23.1	14.4	14.4	22.4	13.0	13.6	15.1	0.0	16.2	16.6	0.0	15.2
LnGrp LOS	C	B	B	C	B	B	B		B	B		B
Approach Vol, veh/h		476			560			56			267	
Approach Delay, s/veh		15.1			14.0			16.1			16.4	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	9.5	6.6	13.5	9.8	6.2	13.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	23.5	12.5	34.5	31.5	10.5	36.5
Max Q Clear Time (g_c+I1), s	3.2	3.1	6.1	4.4	2.8	5.5
Green Ext Time (p_c), s	0.1	0.0	2.5	0.9	0.0	3.3

Intersection Summary	
HCM 7th Control Delay, s/veh	15.0
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.



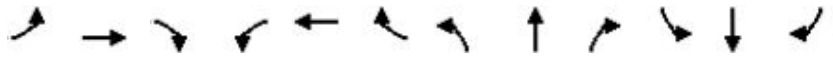
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	351	268	0	236	100	0	0	0	219	0	318
Future Volume (veh/h)	0	351	268	0	236	100	0	0	0	219	0	318
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	382	0	0	257	0				238	0	346
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	960		0	960					1212	0	556
Arrive On Green	0.00	0.27	0.00	0.00	0.27	0.00				0.35	0.00	0.35
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	382	0	0	257	0				238	0	346
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	2.0	0.0	0.0	1.3	0.0				1.1	0.0	4.1
Cycle Q Clear(g_c), s	0.0	2.0	0.0	0.0	1.3	0.0				1.1	0.0	4.1
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	960		0	960					1212	0	556
V/C Ratio(X)	0.00	0.40		0.00	0.27					0.20	0.00	0.62
Avail Cap(c_a), veh/h	0	3976		0	3976					3866	0	1773
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	7.0	0.0	0.0	6.7	0.0				5.3	0.0	6.3
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.0	0.1	0.0				0.1	0.0	1.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.3	0.0	0.0	0.2	0.0				0.0	0.0	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	7.2	0.0	0.0	6.9	0.0				5.4	0.0	7.5
LnGrp LOS		A			A					A		A
Approach Vol, veh/h		382			257						584	
Approach Delay, s/veh		7.2			6.9						6.6	
Approach LOS		A			A						A	

Timer - Assigned Phs		4		6		8
Phs Duration (G+Y+Rc), s		10.7		12.5		10.7
Change Period (Y+Rc), s		4.5		4.5		4.5
Max Green Setting (Gmax), s		25.5		25.5		25.5
Max Q Clear Time (g_c+I1), s		4.0		6.1		3.3
Green Ext Time (p_c), s		2.3		1.8		1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	6.9
HCM 7th LOS	A

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	118	186	269	0	81	32	154	88	175	17	0	102
Future Volume (veh/h)	118	186	269	0	81	32	154	88	175	17	0	102
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	120	190	0	0	83	33	124	137	179	17	0	104
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	402	1736		0	431	154	821	862	1461	0	0	0
Arrive On Green	0.11	0.33	0.00	0.00	0.11	0.11	0.45	0.45	0.45	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	3938	1349	1810	1900	3220		0	
Grp Volume(v), veh/h	120	190	0	0	75	41	124	137	179		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1657	1810	1900	1610			
Q Serve(g_s), s	1.3	1.1	0.0	0.0	0.8	0.9	1.7	1.8	1.4			
Cycle Q Clear(g_c), s	1.3	1.1	0.0	0.0	0.8	0.9	1.7	1.8	1.4			
Prop In Lane	1.00		1.00	0.00		0.81	1.00		1.00			
Lane Grp Cap(c), veh/h	402	1736		0	396	190	821	862	1461			
V/C Ratio(X)	0.30	0.11		0.00	0.19	0.21	0.15	0.16	0.12			
Avail Cap(c_a), veh/h	1485	6280		0	2358	1130	821	862	1461			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	17.3	9.8	0.0	0.0	17.1	17.1	6.8	6.8	6.7			
Incr Delay (d2), s/veh	0.4	0.0	0.0	0.0	0.2	0.6	0.4	0.4	0.2			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.5	0.3	0.0	0.0	0.3	0.3	0.4	0.5	0.3			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	17.7	9.8	0.0	0.0	17.3	17.7	7.2	7.2	6.9			
LnGrp LOS	B	A			B	B	A	A	A			
Approach Vol, veh/h		310			116			440				
Approach Delay, s/veh		12.8			17.4			7.1				
Approach LOS		B			B			A				

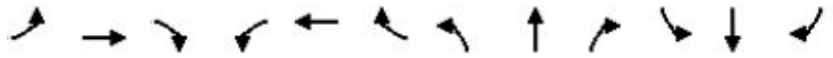
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	18.7	9.4	9.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	3.8	3.1	3.3	2.9
Green Ext Time (p_c), s	1.4	1.3	0.3	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	10.5
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

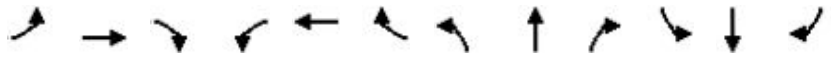


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	305	165	32	297	0	0	0	0	16	0	1
Future Volume (veh/h)	0	305	165	32	297	0	0	0	0	16	0	1
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	335	181	35	326	0				18	0	1
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91				0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	651	345	77	1775	0				657	0	292
Arrive On Green	0.00	0.29	0.29	0.04	0.49	0.00				0.18	0.00	0.18
Sat Flow, veh/h	0	2375	1207	1810	3705	0				3619	0	1610
Grp Volume(v), veh/h	0	264	252	35	326	0				18	0	1
Grp Sat Flow(s),veh/h/ln	0	1805	1683	1810	1805	0				1810	0	1610
Q Serve(g_s), s	0.0	3.4	3.5	0.5	1.4	0.0				0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	3.4	3.5	0.5	1.4	0.0				0.1	0.0	0.0
Prop In Lane	0.00		0.72	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	516	481	77	1775	0				657	0	292
V/C Ratio(X)	0.00	0.51	0.52	0.45	0.18	0.00				0.03	0.00	0.00
Avail Cap(c_a), veh/h	0	1278	1191	427	3998	0				2694	0	1198
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	8.2	8.3	12.9	3.9	0.0				9.3	0.0	9.2
Incr Delay (d2), s/veh	0.0	0.8	0.9	4.1	0.0	0.0				0.0	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.7	0.7	0.2	0.0	0.0				0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.0	9.2	17.0	4.0	0.0				9.3	0.0	9.2
LnGrp LOS		A	A	B	A					A		A
Approach Vol, veh/h		516			361						19	
Approach Delay, s/veh		9.1			5.2						9.3	
Approach LOS		A			A						A	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		5.7	12.4		9.5		18.0					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		2.5	5.5		2.1		3.4					
Green Ext Time (p_c), s		0.0	2.4		0.0		1.8					

Intersection Summary	
HCM 7th Control Delay, s/veh	7.5
HCM 7th LOS	A

Notes
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	315	0	0	246	27	83	0	24	0	0	0
Future Volume (veh/h)	4	315	0	0	246	27	83	0	24	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	0	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	5	358	0	0	280	31	94	0	27			
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	12	1468	0	0	755	337	383	0	341			
Arrive On Green	0.01	0.41	0.00	0.00	0.21	0.21	0.21	0.00	0.21			
Sat Flow, veh/h	1810	3705	0	0	3705	1610	1810	0	1610			
Grp Volume(v), veh/h	5	358	0	0	280	31	94	0	27			
Grp Sat Flow(s),veh/h/ln	1810	1805	0	0	1805	1610	1810	0	1610			
Q Serve(g_s), s	0.1	1.5	0.0	0.0	1.6	0.4	1.0	0.0	0.3			
Cycle Q Clear(g_c), s	0.1	1.5	0.0	0.0	1.6	0.4	1.0	0.0	0.3			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	12	1468	0	0	755	337	383	0	341			
V/C Ratio(X)	0.40	0.24	0.00	0.00	0.37	0.09	0.25	0.00	0.08			
Avail Cap(c_a), veh/h	1150	5278	0	0	2295	1023	1265	0	1126			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	11.7	4.6	0.0	0.0	8.0	7.5	7.7	0.0	7.5			
Incr Delay (d2), s/veh	19.9	0.1	0.0	0.0	0.3	0.1	0.3	0.0	0.1			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	31.6	4.7	0.0	0.0	8.3	7.6	8.1	0.0	7.6			
LnGrp LOS	C	A			A	A	A		A			
Approach Vol, veh/h		363			311			121				
Approach Delay, s/veh		5.1			8.2			7.9				
Approach LOS		A			A			A				

Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	9.5	14.1	4.7	9.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5	15.0	15.0
Max Q Clear Time (g_c+I1), s	3.0	3.5	2.1	3.6
Green Ext Time (p_c), s	0.3	2.0	0.0	1.2

Intersection Summary	
HCM 7th Control Delay, s/veh	6.7
HCM 7th LOS	A

Intersection	
Intersection Delay, s/veh	7.2
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	9	24	7	12	15	27
Future Vol, veh/h	9	24	7	12	15	27
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	12	33	10	16	21	37
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7	7.6	7.2
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	15	27	9	24	7	12
LT Vol	15	0	0	0	7	0
Through Vol	0	0	9	0	0	12
RT Vol	0	27	0	24	0	0
Lane Flow Rate	21	37	12	33	10	16
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.029	0.04	0.016	0.036	0.014	0.021
Departure Headway (Hd)	5.121	3.92	4.613	3.913	5.123	4.622
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	697	909	774	911	697	772
Service Time	2.864	1.663	2.355	1.654	2.866	2.365
HCM Lane V/C Ratio	0.03	0.041	0.016	0.036	0.014	0.021
HCM Control Delay, s/veh	8	6.8	7.4	6.8	7.9	7.5
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.1	0.1	0	0.1	0	0.1

Intersection	
Intersection Delay, s/veh	7.3
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	4	52	0	0	0	0	19	9	10	22	0
Future Vol, veh/h	0	4	52	0	0	0	0	19	9	10	22	0
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	5	69	0	0	0	0	25	12	13	29	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7	7.5	7.8
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	0%	100%	0%
Vol Thru, %	68%	100%	100%	0%	0%	100%
Vol Right, %	32%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	28	0	4	52	10	22
LT Vol	0	0	0	0	10	0
Through Vol	19	0	4	0	0	22
RT Vol	9	0	0	52	0	0
Lane Flow Rate	37	0	5	69	13	29
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.046	0	0.007	0.076	0.019	0.038
Departure Headway (Hd)	4.477	4.636	4.636	3.936	5.195	4.695
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	793	0	767	902	686	759
Service Time	2.241	2.397	2.397	1.696	2.95	2.449
HCM Lane V/C Ratio	0.047	0	0.007	0.076	0.019	0.038
HCM Control Delay, s/veh	7.5	7.4	7.4	7	8.1	7.6
HCM Lane LOS	A	N	A	A	A	A
HCM 95th-tile Q	0.1	0	0	0.2	0.1	0.1

Intersection	
Int Delay, s/veh	5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	7	17	58	4	5	13	36	20	3	34	5
Future Vol, veh/h	3	7	17	58	4	5	13	36	20	3	34	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	3	8	18	63	4	5	14	39	22	3	37	5

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	116	135	40	126	127	50	42	0	0	61	0	0
Stage 1	46	46	-	78	78	-	-	-	-	-	-	-
Stage 2	70	89	-	47	49	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	866	759	1037	853	767	1024	1580	-	-	1555	-	-
Stage 1	973	860	-	936	834	-	-	-	-	-	-	-
Stage 2	945	825	-	971	858	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	847	751	1037	820	759	1024	1580	-	-	1555	-	-
Mov Cap-2 Maneuver	847	751	-	820	759	-	-	-	-	-	-	-
Stage 1	971	859	-	927	826	-	-	-	-	-	-	-
Stage 2	927	818	-	944	856	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.03	9.76	1.38	0.52
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1580	-	-	923	829	1555	-	-
HCM Lane V/C Ratio	0.009	-	-	0.032	0.088	0.002	-	-
HCM Ctrl Dly (s/v)	7.3	-	-	9	9.8	7.3	-	-
HCM Lane LOS	A	-	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.3	0	-	-

Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	12	0	10	1	70	20	14	94	1
Future Vol, veh/h	0	0	0	12	0	10	1	70	20	14	94	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	14	0	12	1	82	24	16	111	1

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	229	252	111	240	241	94	112	0	0	106	0	0
Stage 1	144	144	-	96	96	-	-	-	-	-	-	-
Stage 2	85	108	-	144	145	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	731	654	947	718	664	968	1491	-	-	1498	-	-
Stage 1	863	781	-	915	819	-	-	-	-	-	-	-
Stage 2	928	810	-	864	781	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	713	647	947	710	656	968	1491	-	-	1498	-	-
Mov Cap-2 Maneuver	713	647	-	710	656	-	-	-	-	-	-	-
Stage 1	854	773	-	914	818	-	-	-	-	-	-	-
Stage 2	916	809	-	855	772	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0	9.6	0.08	0.95
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	19	-	-	-	808	1498	-	-
HCM Lane V/C Ratio	0.001	-	-	-	0.032	0.011	-	-
HCM Ctrl Dly (s/v)	7.4	0	-	0	9.6	7.4	-	-
HCM Lane LOS	A	A	-	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	0.1	0	-	-

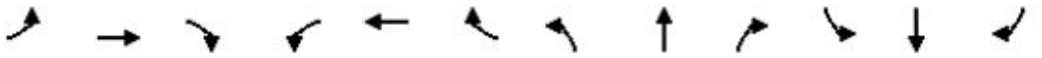
Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	5	7	37	10	6	3	134	37	8	153	2
Future Vol, veh/h	2	5	7	37	10	6	3	134	37	8	153	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	200	-	0	115	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	2	6	8	44	12	7	4	160	44	10	182	2

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	375	413	183	371	370	160	185	0	0	204	0	0
Stage 1	202	202	-	167	167	-	-	-	-	-	-	-
Stage 2	173	211	-	204	204	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	586	532	864	590	563	891	1402	-	-	1380	-	-
Stage 1	804	738	-	840	764	-	-	-	-	-	-	-
Stage 2	834	732	-	802	737	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	564	527	864	572	557	891	1402	-	-	1380	-	-
Mov Cap-2 Maneuver	564	527	-	572	557	-	-	-	-	-	-	-
Stage 1	799	733	-	838	762	-	-	-	-	-	-	-
Stage 2	812	730	-	783	732	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.57	11.79	0.13	0.37
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1402	-	-	663	593	1380	-	-
HCM Lane V/C Ratio	0.003	-	-	0.025	0.106	0.007	-	-
HCM Ctrl Dly (s/v)	7.6	-	-	10.6	11.8	7.6	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.4	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	17	74	32	47	167	55	28	63	66	45	65	37
Future Volume (veh/h)	17	74	32	47	167	55	28	63	66	45	65	37
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	18	80	0	51	180	0	30	68	71	48	70	40
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	42	529		104	652		66	291	260	99	340	288
Arrive On Green	0.02	0.15	0.00	0.06	0.18	0.00	0.04	0.16	0.16	0.05	0.18	0.18
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	1805	1610	1810	1900	1610
Grp Volume(v), veh/h	18	80	0	51	180	0	30	68	71	48	70	40
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1610	1810	1900	1610
Q Serve(g_s), s	0.3	0.6	0.0	0.8	1.3	0.0	0.5	1.0	1.2	0.8	1.0	0.6
Cycle Q Clear(g_c), s	0.3	0.6	0.0	0.8	1.3	0.0	0.5	1.0	1.2	0.8	1.0	0.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	42	529		104	652		66	291	260	99	340	288
V/C Ratio(X)	0.43	0.15		0.49	0.28		0.45	0.23	0.27	0.49	0.21	0.14
Avail Cap(c_a), veh/h	379	4016		729	4714		379	2415	2154	788	2971	2518
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.9	11.6	0.0	14.2	11.0	0.0	14.6	11.3	11.4	14.2	10.9	10.7
Incr Delay (d2), s/veh	6.8	0.1	0.0	3.6	0.2	0.0	4.7	0.4	0.6	3.7	0.3	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.1	0.0	0.3	0.4	0.0	0.2	0.3	0.3	0.3	0.2	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	21.8	11.7	0.0	17.8	11.2	0.0	19.4	11.7	12.0	17.9	11.1	10.9
LnGrp LOS	C	B		B	B		B	B	B	B	B	B
Approach Vol, veh/h		98			231			169			158	
Approach Delay, s/veh		13.5			12.6			13.2			13.1	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.2	9.5	6.3	9.0	5.6	10.1	5.2	10.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	2.8	3.2	2.8	2.6	2.5	3.0	2.3	3.3
Green Ext Time (p_c), s	0.0	0.7	0.0	0.4	0.0	0.4	0.0	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	13.0
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	2	2	157	143	0
Future Vol, veh/h	0	2	2	157	143	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	25	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	2	2	178	163	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	345	163	163	0	-	0
Stage 1	163	-	-	-	-	-
Stage 2	183	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	655	888	1429	-	-	-
Stage 1	871	-	-	-	-	-
Stage 2	853	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	654	888	1429	-	-	-
Mov Cap-2 Maneuver	654	-	-	-	-	-
Stage 1	870	-	-	-	-	-
Stage 2	853	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	9.07	0.09	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	23	-	-	888	-	-
HCM Lane V/C Ratio	0.002	-	-	0.003	-	-
HCM Ctrl Dly (s/v)	7.5	0	0	9.1	-	-
HCM Lane LOS	A	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	-	-

Intersection	
Int Delay, s/veh	2.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	15	0	19	21	1	3	46	141	5	1	127	17
Future Vol, veh/h	15	0	19	21	1	3	46	141	5	1	127	17
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	17	0	21	24	1	3	52	158	6	1	143	19

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	417	422	81	335	426	158	162	0	0	164	0	0
Stage 1	154	154	-	262	262	-	-	-	-	-	-	-
Stage 2	262	267	-	74	164	-	-	-	-	-	-	-
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	537	526	969	611	524	892	1429	-	-	1427	-	-
Stage 1	838	774	-	748	695	-	-	-	-	-	-	-
Stage 2	747	691	-	933	766	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	512	505	969	573	502	892	1429	-	-	1427	-	-
Mov Cap-2 Maneuver	512	505	-	573	502	-	-	-	-	-	-	-
Stage 1	837	773	-	718	668	-	-	-	-	-	-	-
Stage 2	713	664	-	912	766	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.48	11.35	1.82	0.05
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1429	-	-	696	595	1427	-	-
HCM Lane V/C Ratio	0.036	-	-	0.055	0.047	0.001	-	-
HCM Ctrl Dly (s/v)	7.6	-	-	10.5	11.3	7.5	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.2	0.1	0	-	-

Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	1	103	99	191	162	5
Future Vol, veh/h	1	103	99	191	162	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	111	106	205	174	5

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	492	90	180	0	-	0
Stage 1	177	-	-	-	-	-
Stage 2	316	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	511	957	1408	-	-	-
Stage 1	842	-	-	-	-	-
Stage 2	718	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	472	957	1408	-	-	-
Mov Cap-2 Maneuver	555	-	-	-	-	-
Stage 1	778	-	-	-	-	-
Stage 2	718	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	9.28	2.65	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1408	-	555	957	-	-
HCM Lane V/C Ratio	0.076	-	0.002	0.116	-	-
HCM Ctrl Dly (s/v)	7.8	-	11.5	9.3	-	-
HCM Lane LOS	A	-	B	A	-	-
HCM 95th %tile Q(veh)	0.2	-	0	0.4	-	-

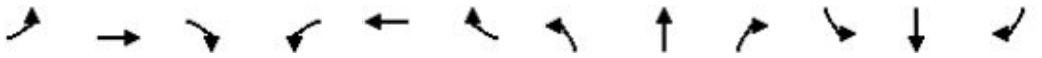
Intersection	
Int Delay, s/veh	2.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	6	312	14	124	377	26	3	0	81	7	0	3
Future Vol, veh/h	6	312	14	124	377	26	3	0	81	7	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	351	16	139	424	29	3	0	91	8	0	3

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	453	0	0	366	0	0	862	1103	183	906	1097	226
Stage 1	-	-	-	-	-	-	372	372	-	717	717	-
Stage 2	-	-	-	-	-	-	490	731	-	189	380	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1118	-	-	1203	-	-	252	213	834	234	215	783
Stage 1	-	-	-	-	-	-	626	622	-	391	437	-
Stage 2	-	-	-	-	-	-	533	430	-	801	618	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1118	-	-	1203	-	-	216	184	834	180	185	783
Mov Cap-2 Maneuver	-	-	-	-	-	-	216	184	-	180	185	-
Stage 1	-	-	-	-	-	-	622	618	-	340	379	-
Stage 2	-	-	-	-	-	-	461	373	-	709	613	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0.15	1.97	10.43	21.16
HCM LOS			B	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	757	1118	-	-	1203	-	-	234
HCM Lane V/C Ratio	0.125	0.006	-	-	0.116	-	-	0.048
HCM Ctrl Dly (s/v)	10.4	8.2	-	-	8.4	-	-	21.2
HCM Lane LOS	B	A	-	-	A	-	-	C
HCM 95th %tile Q(veh)	0.4	0	-	-	0.4	-	-	0.2

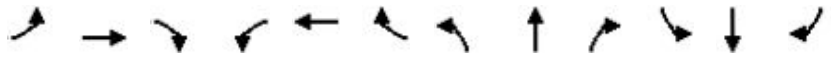


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	371	10	49	491	177	12	2	62	229	4	24
Future Volume (veh/h)	20	371	10	49	491	177	12	2	62	229	4	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	22	399	11	53	528	190	13	2	67	249	0	26
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	49	945	26	99	1105	385	215	226	192	485	0	216
Arrive On Green	0.03	0.26	0.26	0.05	0.29	0.29	0.12	0.12	0.12	0.13	0.00	0.13
Sat Flow, veh/h	1810	3588	99	1810	3791	1323	1810	1900	1610	3619	0	1610
Grp Volume(v), veh/h	22	200	210	53	480	238	13	2	67	249	0	26
Grp Sat Flow(s),veh/h/ln	1810	1805	1882	1810	1729	1656	1810	1900	1610	1810	0	1610
Q Serve(g_s), s	0.5	3.9	3.9	1.2	4.8	5.0	0.3	0.0	1.6	2.7	0.0	0.6
Cycle Q Clear(g_c), s	0.5	3.9	3.9	1.2	4.8	5.0	0.3	0.0	1.6	2.7	0.0	0.6
Prop In Lane	1.00		0.05	1.00		0.80	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	49	475	496	99	1007	483	215	226	192	485	0	216
V/C Ratio(X)	0.45	0.42	0.42	0.53	0.48	0.49	0.06	0.01	0.35	0.51	0.00	0.12
Avail Cap(c_a), veh/h	452	1483	1546	539	3006	1440	1013	1063	901	2715	0	1208
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	20.1	12.8	12.8	19.3	12.2	12.3	16.4	16.3	17.0	16.9	0.0	16.0
Incr Delay (d2), s/veh	6.4	0.6	0.6	4.4	0.4	0.8	0.1	0.0	1.1	0.8	0.0	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	1.3	1.3	0.5	1.4	1.5	0.1	0.0	0.5	1.0	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	26.5	13.4	13.4	23.7	12.6	13.1	16.5	16.3	18.1	17.8	0.0	16.3
LnGrp LOS	C	B	B	C	B	B	B	B	B	B		B
Approach Vol, veh/h		432			771			82			275	
Approach Delay, s/veh		14.1			13.5			17.8			17.6	
Approach LOS		B			B			B			B	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		9.5	6.8	15.6		10.1	5.6	16.7				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		23.5	12.5	34.5		31.5	10.5	36.5				
Max Q Clear Time (g_c+I1), s		3.6	3.2	5.9		4.7	2.5	7.0				
Green Ext Time (p_c), s		0.2	0.1	2.3		0.9	0.0	4.8				

Intersection Summary	
HCM 7th Control Delay, s/veh	14.6
HCM 7th LOS	B

Notes
User approved volume balancing among the lanes for turning movement.



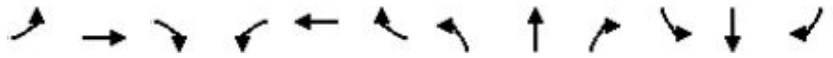
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	372	286	0	325	185	0	0	0	497	0	444
Future Volume (veh/h)	0	372	286	0	325	185	0	0	0	497	0	444
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	400	0	0	349	0				534	0	477
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93				0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	896		0	896					1513	0	694
Arrive On Green	0.00	0.25	0.00	0.00	0.25	0.00				0.43	0.00	0.43
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	400	0	0	349	0				534	0	477
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	2.6	0.0	0.0	2.3	0.0				2.9	0.0	6.7
Cycle Q Clear(g_c), s	0.0	2.6	0.0	0.0	2.3	0.0				2.9	0.0	6.7
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	896		0	896					1513	0	694
V/C Ratio(X)	0.00	0.45		0.00	0.39					0.35	0.00	0.69
Avail Cap(c_a), veh/h	0	3282		0	3282					3192	0	1464
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	8.9	0.0	0.0	8.8	0.0				5.4	0.0	6.5
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.0	0.3	0.0				0.1	0.0	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.6	0.0	0.0	0.5	0.0				0.2	0.0	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.3	0.0	0.0	9.1	0.0				5.5	0.0	7.7
LnGrp LOS		A			A					A		A
Approach Vol, veh/h		400			349						1011	
Approach Delay, s/veh		9.3			9.1						6.5	
Approach LOS		A			A						A	

Timer - Assigned Phs		4		6		8		
Phs Duration (G+Y+Rc), s		11.5		16.6		11.5		
Change Period (Y+Rc), s		4.5		4.5		4.5		
Max Green Setting (Gmax), s		25.5		25.5		25.5		
Max Q Clear Time (g_c+I1), s		4.6		8.7		4.3		
Green Ext Time (p_c), s		2.4		3.4		2.0		

Intersection Summary	
HCM 7th Control Delay, s/veh	7.6
HCM 7th LOS	A

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	270	351	242	0	156	69	191	151	209	45	0	169
Future Volume (veh/h)	270	351	242	0	156	69	191	151	209	45	0	169
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	300	390	0	0	173	77	190	199	232	50	0	188
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	501	1909		0	453	183	780	819	1388	0	0	0
Arrive On Green	0.14	0.37	0.00	0.00	0.12	0.12	0.43	0.43	0.43	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	3798	1467	1810	1900	3220		0	
Grp Volume(v), veh/h	300	390	0	0	164	86	190	199	232		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1636	1810	1900	1610			
Q Serve(g_s), s	3.6	2.3	0.0	0.0	2.0	2.2	3.0	3.0	2.0			
Cycle Q Clear(g_c), s	3.6	2.3	0.0	0.0	2.0	2.2	3.0	3.0	2.0			
Prop In Lane	1.00		1.00	0.00		0.90	1.00		1.00			
Lane Grp Cap(c), veh/h	501	1909		0	432	204	780	819	1388			
V/C Ratio(X)	0.60	0.20		0.00	0.38	0.42	0.24	0.24	0.17			
Avail Cap(c_a), veh/h	1411	5966		0	2240	1060	780	819	1388			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	18.0	9.7	0.0	0.0	18.0	18.1	8.1	8.1	7.8			
Incr Delay (d2), s/veh	1.2	0.1	0.0	0.0	0.6	1.4	0.7	0.7	0.3			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.3	0.6	0.0	0.0	0.7	0.8	0.8	0.8	0.4			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	19.2	9.7	0.0	0.0	18.6	19.5	8.8	8.8	8.1			
LnGrp LOS	B	A			B	B	A	A	A			
Approach Vol, veh/h		690			250			621				
Approach Delay, s/veh		13.8			18.9			8.5				
Approach LOS		B			B			A				

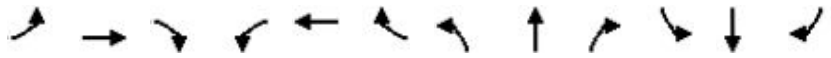
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	21.0	10.9	10.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	5.0	4.3	5.6	4.2
Green Ext Time (p_c), s	2.1	2.7	0.8	1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	12.5
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

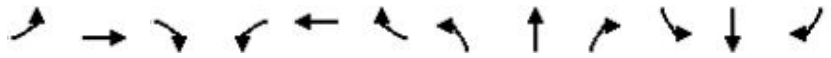


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	199	115	34	508	0	0	0	0	28	6	4
Future Volume (veh/h)	0	199	115	34	508	0	0	0	0	28	6	4
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	209	121	36	535	0				33	0	4
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	497	276	80	1605	0				718	0	319
Arrive On Green	0.00	0.22	0.22	0.04	0.44	0.00				0.20	0.00	0.20
Sat Flow, veh/h	0	2334	1242	1810	3705	0				3619	0	1610
Grp Volume(v), veh/h	0	167	163	36	535	0				33	0	4
Grp Sat Flow(s),veh/h/ln	0	1805	1676	1810	1805	0				1810	0	1610
Q Serve(g_s), s	0.0	2.0	2.1	0.5	2.4	0.0				0.2	0.0	0.1
Cycle Q Clear(g_c), s	0.0	2.0	2.1	0.5	2.4	0.0				0.2	0.0	0.1
Prop In Lane	0.00		0.74	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	401	372	80	1605	0				718	0	319
V/C Ratio(X)	0.00	0.42	0.44	0.45	0.33	0.00				0.05	0.00	0.01
Avail Cap(c_a), veh/h	0	1396	1297	467	4368	0				2943	0	1309
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	8.4	8.5	11.7	4.6	0.0				8.2	0.0	8.1
Incr Delay (d2), s/veh	0.0	0.7	0.8	3.9	0.1	0.0				0.0	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.4	0.4	0.2	0.0	0.0				0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.1	9.3	15.7	4.7	0.0				8.2	0.0	8.1
LnGrp LOS		A	A	B	A					A		A
Approach Vol, veh/h		330			571						37	
Approach Delay, s/veh		9.2			5.4						8.2	
Approach LOS		A			A						A	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		5.6	10.1		9.5		15.7					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		2.5	4.1		2.2		4.4					
Green Ext Time (p_c), s		0.0	1.5		0.1		3.1					

Intersection Summary	
HCM 7th Control Delay, s/veh	6.8
HCM 7th LOS	A

Notes
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	221	0	0	349	24	194	3	78	0	0	0
Future Volume (veh/h)	4	221	0	0	349	24	194	3	78	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	0	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	4	226	0	0	356	24	198	3	80			
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	10	1493	0	0	807	360	388	6	350			
Arrive On Green	0.01	0.41	0.00	0.00	0.22	0.22	0.22	0.22	0.22			
Sat Flow, veh/h	1810	3705	0	0	3705	1610	1784	27	1610			
Grp Volume(v), veh/h	4	226	0	0	356	24	201	0	80			
Grp Sat Flow(s),veh/h/ln	1810	1805	0	0	1805	1610	1811	0	1610			
Q Serve(g_s), s	0.1	1.0	0.0	0.0	2.1	0.3	2.4	0.0	1.0			
Cycle Q Clear(g_c), s	0.1	1.0	0.0	0.0	2.1	0.3	2.4	0.0	1.0			
Prop In Lane	1.00		0.00	0.00		1.00	0.99		1.00			
Lane Grp Cap(c), veh/h	10	1493	0	0	807	360	394	0	350			
V/C Ratio(X)	0.40	0.15	0.00	0.00	0.44	0.07	0.51	0.00	0.23			
Avail Cap(c_a), veh/h	1113	5108	0	0	2221	991	1225	0	1090			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	12.1	4.5	0.0	0.0	8.2	7.5	8.4	0.0	7.9			
Incr Delay (d2), s/veh	24.3	0.0	0.0	0.0	0.4	0.1	1.0	0.0	0.3			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.0	0.0	0.3	0.0	0.4	0.0	0.1			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	36.4	4.5	0.0	0.0	8.5	7.5	9.4	0.0	8.2			
LnGrp LOS	D	A			A	A	A		A			
Approach Vol, veh/h		230			380			281				
Approach Delay, s/veh		5.1			8.5			9.1				
Approach LOS		A			A			A				

Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	9.8	14.6	4.6	9.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5	15.0	15.0
Max Q Clear Time (g_c+I1), s	4.4	3.0	2.1	4.1
Green Ext Time (p_c), s	0.9	1.2	0.0	1.5

Intersection Summary	
HCM 7th Control Delay, s/veh	7.8
HCM 7th LOS	A

Intersection	
Intersection Delay, s/veh	7.2
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	5	54	10	14	21	46
Future Vol, veh/h	5	54	10	14	21	46
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	6	62	11	16	24	53
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7	7.7	7.3
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	21	46	5	54	10	14
LT Vol	21	0	0	0	10	0
Through Vol	0	0	5	0	0	14
RT Vol	0	46	0	54	0	0
Lane Flow Rate	24	53	6	62	11	16
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.035	0.058	0.007	0.068	0.017	0.021
Departure Headway (Hd)	5.159	3.958	4.647	3.946	5.168	4.667
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	691	898	765	901	689	762
Service Time	2.913	1.712	2.404	1.702	2.927	2.425
HCM Lane V/C Ratio	0.035	0.059	0.008	0.069	0.016	0.021
HCM Control Delay, s/veh	8.1	7	7.4	7	8	7.5
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.1	0.2	0	0.2	0.1	0.1

Intersection	
Intersection Delay, s/veh	7.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	0	30	0	0	0	0	66	5	17	46	0
Future Vol, veh/h	1	0	30	0	0	0	0	66	5	17	46	0
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	0	35	0	0	0	0	77	6	20	53	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7.1	7.9	7.9
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	100%	0%	0%	100%	0%
Vol Thru, %	93%	0%	100%	0%	0%	100%
Vol Right, %	7%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	71	1	0	30	17	46
LT Vol	0	1	0	0	17	0
Through Vol	66	0	0	0	0	46
RT Vol	5	0	0	30	0	0
Lane Flow Rate	83	1	0	35	20	53
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.106	0.002	0	0.041	0.028	0.07
Departure Headway (Hd)	4.62	5.387	4.886	4.184	5.182	4.681
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	769	668	0	861	685	758
Service Time	2.392	3.087	2.586	1.884	2.956	2.456
HCM Lane V/C Ratio	0.108	0.001	0	0.041	0.029	0.07
HCM Control Delay, s/veh	7.9	8.1	7.6	7.1	8.1	7.8
HCM Lane LOS	A	A	N	A	A	A
HCM 95th-tile Q	0.4	0	0	0.1	0.1	0.2

Intersection	
Int Delay, s/veh	3.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	15	15	56	3	10	13	71	49	3	70	3
Future Vol, veh/h	3	15	15	56	3	10	13	71	49	3	70	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	3	16	16	60	3	11	14	76	53	3	75	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	189	240	77	220	216	103	78	0	0	129	0	0
Stage 1	83	83	-	131	131	-	-	-	-	-	-	-
Stage 2	106	157	-	90	85	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	775	664	990	740	686	958	1533	-	-	1469	-	-
Stage 1	930	830	-	878	792	-	-	-	-	-	-	-
Stage 2	905	772	-	923	828	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	754	657	990	702	678	958	1533	-	-	1469	-	-
Mov Cap-2 Maneuver	754	657	-	702	678	-	-	-	-	-	-	-
Stage 1	928	828	-	870	785	-	-	-	-	-	-	-
Stage 2	883	765	-	888	827	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.79	10.5	0.72	0.29
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1533	-	-	786	729	1469	-	-
HCM Lane V/C Ratio	0.009	-	-	0.045	0.102	0.002	-	-
HCM Ctrl Dly (s/v)	7.4	-	-	9.8	10.5	7.5	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.3	0	-	-

Intersection	
Int Delay, s/veh	2.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	1	61	0	12	0	121	37	16	123	0
Future Vol, veh/h	0	0	1	61	0	12	0	121	37	16	123	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	1	80	0	16	0	159	49	21	162	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	363	412	162	388	388	184	162	0	0	208	0	0
Stage 1	204	204	-	184	184	-	-	-	-	-	-	-
Stage 2	159	208	-	204	204	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	596	533	888	575	550	864	1429	-	-	1375	-	-
Stage 1	803	737	-	823	752	-	-	-	-	-	-	-
Stage 2	848	734	-	803	737	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	577	525	888	565	542	864	1429	-	-	1375	-	-
Mov Cap-2 Maneuver	577	525	-	565	542	-	-	-	-	-	-	-
Stage 1	790	725	-	823	752	-	-	-	-	-	-	-
Stage 2	832	734	-	789	725	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.06	12.15	0	0.88
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1429	-	-	888	599	1375	-	-
HCM Lane V/C Ratio	-	-	-	0.001	0.16	0.015	-	-
HCM Ctrl Dly (s/v)	0	-	-	9.1	12.2	7.7	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.6	0	-	-

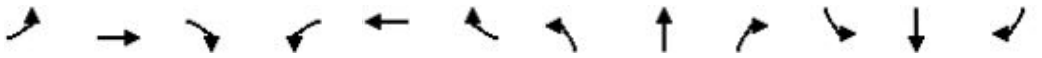
Intersection	
Int Delay, s/veh	9.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	12	9	66	29	43	28	218	143	20	4	163	74
Future Vol, veh/h	12	9	66	29	43	28	218	143	20	4	163	74
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	200	-	0	115	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	78	78	78	78	78	78	78	78	78	78	78	78
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	15	12	85	37	55	36	279	183	26	5	209	95

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1037	1035	256	967	1056	183	304	0	0	209	0	0
Stage 1	267	267	-	742	742	-	-	-	-	-	-	-
Stage 2	770	768	-	225	314	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	211	234	787	236	227	864	1269	-	-	1374	-	-
Stage 1	743	692	-	410	425	-	-	-	-	-	-	-
Stage 2	396	414	-	782	660	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	116	182	787	155	176	864	1269	-	-	1374	-	-
Mov Cap-2 Maneuver	116	182	-	155	176	-	-	-	-	-	-	-
Stage 1	740	689	-	320	332	-	-	-	-	-	-	-
Stage 2	247	323	-	684	657	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	19	43.46	4.94	0.13
HCM LOS	C	E		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1269	-	-	368	216	1374	-	-
HCM Lane V/C Ratio	0.22	-	-	0.303	0.594	0.004	-	-
HCM Ctrl Dly (s/v)	8.6	-	-	19	43.5	7.6	-	-
HCM Lane LOS	A	-	-	C	E	A	-	-
HCM 95th %tile Q(veh)	0.8	-	-	1.3	3.4	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	193	83	62	94	79	79	217	43	75	77	67
Future Volume (veh/h)	60	193	83	62	94	79	79	217	43	75	77	67
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	66	212	0	68	103	0	87	238	47	82	85	74
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	124	519		126	524		149	527	102	144	326	276
Arrive On Green	0.07	0.14	0.00	0.07	0.15	0.00	0.08	0.17	0.17	0.08	0.17	0.17
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	3014	585	1810	1900	1610
Grp Volume(v), veh/h	66	212	0	68	103	0	87	141	144	82	85	74
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1795	1810	1900	1610
Q Serve(g_s), s	1.2	1.8	0.0	1.2	0.8	0.0	1.6	2.4	2.4	1.5	1.3	1.3
Cycle Q Clear(g_c), s	1.2	1.8	0.0	1.2	0.8	0.0	1.6	2.4	2.4	1.5	1.3	1.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.33	1.00		1.00
Lane Grp Cap(c), veh/h	124	519		126	524		149	315	314	144	326	276
V/C Ratio(X)	0.53	0.41		0.54	0.20		0.58	0.45	0.46	0.57	0.26	0.27
Avail Cap(c_a), veh/h	348	3683		669	4324		348	2215	2203	722	2725	2310
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	15.2	13.2	0.0	15.2	12.7	0.0	14.9	12.5	12.5	15.0	12.1	12.2
Incr Delay (d2), s/veh	3.5	0.5	0.0	3.5	0.2	0.0	3.6	1.0	1.1	3.5	0.4	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.5	0.0	0.5	0.2	0.0	0.6	0.7	0.7	0.5	0.4	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	18.8	13.7	0.0	18.7	12.9	0.0	18.5	13.5	13.6	18.5	12.6	12.7
LnGrp LOS	B	B		B	B		B	B	B	B	B	B
Approach Vol, veh/h		278			171			372			241	
Approach Delay, s/veh		14.9			15.2			14.7			14.6	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.2	10.4	6.9	9.4	7.3	10.3	6.8	9.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	3.5	4.4	3.2	3.8	3.6	3.3	3.2	2.8
Green Ext Time (p_c), s	0.1	1.5	0.1	1.1	0.0	0.6	0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	14.8
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	8	0	0	332	220	2
Future Vol, veh/h	8	0	0	332	220	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	25	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	11	0	0	437	289	3

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	728	291	292	0	-	0
Stage 1	291	-	-	-	-	-
Stage 2	437	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	394	753	1281	-	-	-
Stage 1	763	-	-	-	-	-
Stage 2	656	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	394	753	1281	-	-	-
Mov Cap-2 Maneuver	394	-	-	-	-	-
Stage 1	763	-	-	-	-	-
Stage 2	656	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	14.4	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1281	-	394	-	-	-
HCM Lane V/C Ratio	-	-	0.027	-	-	-
HCM Ctrl Dly (s/v)	0	-	14.4	0	-	-
HCM Lane LOS	A	-	B	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-	-

Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	13	1	25	1	0	0	26	319	9	5	192	24
Future Vol, veh/h	13	1	25	1	0	0	26	319	9	5	192	24
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	15	1	29	1	0	0	30	367	10	6	221	28

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	672	683	124	549	686	367	248	0	0	377	0	0
Stage 1	246	246	-	426	426	-	-	-	-	-	-	-
Stage 2	426	437	-	122	260	-	-	-	-	-	-	-
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	358	374	910	436	373	683	1329	-	-	1193	-	-
Stage 1	742	706	-	610	589	-	-	-	-	-	-	-
Stage 2	610	583	-	875	697	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	346	362	910	407	360	683	1329	-	-	1193	-	-
Mov Cap-2 Maneuver	346	362	-	407	360	-	-	-	-	-	-	-
Stage 1	738	703	-	593	572	-	-	-	-	-	-	-
Stage 2	593	566	-	841	693	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	11.78	13.87	0.57	0.18
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1329	-	-	575	407	1193	-	-
HCM Lane V/C Ratio	0.022	-	-	0.078	0.003	0.005	-	-
HCM Ctrl Dly (s/v)	7.8	-	-	11.8	13.9	8	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	0	0	-	-

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	4	100	60	348	210	7
Future Vol, veh/h	4	100	60	348	210	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	78	78	78	78
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	5	128	77	446	269	9

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	651	139	278	0	-	0
Stage 1	274	-	-	-	-	-
Stage 2	377	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	406	890	1296	-	-	-
Stage 1	754	-	-	-	-	-
Stage 2	669	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	382	890	1296	-	-	-
Mov Cap-2 Maneuver	488	-	-	-	-	-
Stage 1	709	-	-	-	-	-
Stage 2	669	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	9.83	1.17	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1296	-	488	890	-	-
HCM Lane V/C Ratio	0.059	-	0.011	0.144	-	-
HCM Ctrl Dly (s/v)	8	-	12.5	9.7	-	-
HCM Lane LOS	A	-	B	A	-	-
HCM 95th %tile Q(veh)	0.2	-	0	0.5	-	-

Intersection	
Int Delay, s/veh	2.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	392	19	81	477	30	6	0	152	24	0	8
Future Vol, veh/h	1	392	19	81	477	30	6	0	152	24	0	8
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	417	20	86	507	32	6	0	162	26	0	9

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	539	0	0	437	0	0	855	1141	219	906	1135	270
Stage 1	-	-	-	-	-	-	429	429	-	696	696	-
Stage 2	-	-	-	-	-	-	426	712	-	211	439	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1039	-	-	1133	-	-	255	202	792	234	204	734
Stage 1	-	-	-	-	-	-	580	587	-	403	446	-
Stage 2	-	-	-	-	-	-	582	439	-	778	581	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1039	-	-	1133	-	-	229	184	792	169	185	734
Mov Cap-2 Maneuver	-	-	-	-	-	-	229	184	-	169	185	-
Stage 1	-	-	-	-	-	-	579	587	-	367	406	-
Stage 2	-	-	-	-	-	-	524	400	-	618	581	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0.02	1.16	11.47	25.45
HCM LOS			B	D

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	724	1039	-	-	1133	-	-	210
HCM Lane V/C Ratio	0.232	0.001	-	-	0.076	-	-	0.162
HCM Ctrl Dly (s/v)	11.5	8.5	-	-	8.4	-	-	25.5
HCM Lane LOS	B	A	-	-	A	-	-	D
HCM 95th %tile Q(veh)	0.9	0	-	-	0.2	-	-	0.6

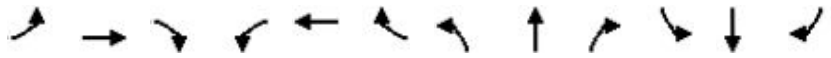
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	36	518	13	50	558	154	4	0	50	231	5	26
Future Volume (veh/h)	36	518	13	50	558	154	4	0	50	231	5	26
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	39	557	14	54	600	166	4	0	54	252	0	28
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	78	1030	26	100	1209	328	207	217	184	480	0	213
Arrive On Green	0.04	0.29	0.29	0.06	0.30	0.30	0.11	0.00	0.11	0.13	0.00	0.13
Sat Flow, veh/h	1810	3598	90	1810	4056	1099	1810	1900	1610	3619	0	1610
Grp Volume(v), veh/h	39	279	292	54	510	256	4	0	54	252	0	28
Grp Sat Flow(s),veh/h/ln	1810	1805	1884	1810	1729	1698	1810	1900	1610	1810	0	1610
Q Serve(g_s), s	0.9	5.7	5.7	1.3	5.3	5.5	0.1	0.0	1.3	2.8	0.0	0.7
Cycle Q Clear(g_c), s	0.9	5.7	5.7	1.3	5.3	5.5	0.1	0.0	1.3	2.8	0.0	0.7
Prop In Lane	1.00		0.05	1.00		0.65	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	78	517	539	100	1031	506	207	217	184	480	0	213
V/C Ratio(X)	0.50	0.54	0.54	0.54	0.49	0.51	0.02	0.00	0.29	0.53	0.00	0.13
Avail Cap(c_a), veh/h	435	1425	1487	517	2887	1418	973	1021	866	2608	0	1160
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	20.5	13.2	13.2	20.1	12.6	12.7	17.2	0.0	17.7	17.7	0.0	16.7
Incr Delay (d2), s/veh	4.9	0.9	0.8	4.5	0.4	0.8	0.0	0.0	0.9	0.9	0.0	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.9	2.0	0.6	1.6	1.7	0.0	0.0	0.5	1.1	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	25.3	14.1	14.0	24.7	13.0	13.5	17.2	0.0	18.6	18.6	0.0	17.0
LnGrp LOS	C	B	B	C	B	B	B		B	B		B
Approach Vol, veh/h		610			820			58			280	
Approach Delay, s/veh		14.8			13.9			18.5			18.4	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	9.5	6.9	17.0	10.3	6.4	17.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	23.5	12.5	34.5	31.5	10.5	36.5
Max Q Clear Time (g_c+I1), s	3.3	3.3	7.7	4.8	2.9	7.5
Green Ext Time (p_c), s	0.1	0.1	3.3	1.0	0.0	5.2

Intersection Summary	
HCM 7th Control Delay, s/veh	15.1
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.



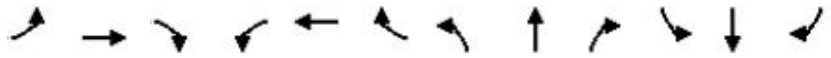
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	406	347	0	396	105	0	0	0	230	0	400
Future Volume (veh/h)	0	406	347	0	396	105	0	0	0	230	0	400
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	441	0	0	430	0				250	0	435
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	993		0	993					1353	0	621
Arrive On Green	0.00	0.28	0.00	0.00	0.28	0.00				0.39	0.00	0.39
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	441	0	0	430	0				250	0	435
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	2.7	0.0	0.0	2.6	0.0				1.2	0.0	6.0
Cycle Q Clear(g_c), s	0.0	2.7	0.0	0.0	2.6	0.0				1.2	0.0	6.0
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	993		0	993					1353	0	621
V/C Ratio(X)	0.00	0.44		0.00	0.43					0.18	0.00	0.70
Avail Cap(c_a), veh/h	0	3473		0	3473					3377	0	1549
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	7.9	0.0	0.0	7.9	0.0				5.4	0.0	6.9
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.0	0.3	0.0				0.1	0.0	1.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.5	0.0	0.0	0.5	0.0				0.1	0.0	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	8.2	0.0	0.0	8.2	0.0				5.5	0.0	8.3
LnGrp LOS		A			A					A		A
Approach Vol, veh/h		441			430						685	
Approach Delay, s/veh		8.2			8.2						7.3	
Approach LOS		A			A						A	

Timer - Assigned Phs		4		6		8
Phs Duration (G+Y+Rc), s		11.8		14.7		11.8
Change Period (Y+Rc), s		4.5		4.5		4.5
Max Green Setting (Gmax), s		25.5		25.5		25.5
Max Q Clear Time (g_c+I1), s		4.7		8.0		4.6
Green Ext Time (p_c), s		2.6		2.2		2.6

Intersection Summary	
HCM 7th Control Delay, s/veh	7.8
HCM 7th LOS	A

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	128	202	283	0	103	33	284	93	184	18	0	116
Future Volume (veh/h)	128	202	283	0	103	33	284	93	184	18	0	116
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	131	206	0	0	105	34	193	232	188	18	0	118
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	404	1743		0	457	136	819	860	1458	0	0	0
Arrive On Green	0.12	0.34	0.00	0.00	0.12	0.12	0.45	0.45	0.45	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	4135	1181	1810	1900	3220		0	
Grp Volume(v), veh/h	131	206	0	0	90	49	193	232	188		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1687	1810	1900	1610			
Q Serve(g_s), s	1.5	1.2	0.0	0.0	1.0	1.1	2.8	3.2	1.4			
Cycle Q Clear(g_c), s	1.5	1.2	0.0	0.0	1.0	1.1	2.8	3.2	1.4			
Prop In Lane	1.00		1.00	0.00		0.70	1.00		1.00			
Lane Grp Cap(c), veh/h	404	1743		0	399	195	819	860	1458			
V/C Ratio(X)	0.32	0.12		0.00	0.23	0.25	0.24	0.27	0.13			
Avail Cap(c_a), veh/h	1482	6267		0	2353	1148	819	860	1458			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	17.3	9.8	0.0	0.0	17.1	17.2	7.1	7.3	6.8			
Incr Delay (d2), s/veh	0.5	0.0	0.0	0.0	0.3	0.7	0.7	0.8	0.2			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.5	0.3	0.0	0.0	0.3	0.4	0.7	0.8	0.3			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	17.8	9.8	0.0	0.0	17.4	17.8	7.8	8.0	7.0			
LnGrp LOS	B	A			B	B	A	A	A			
Approach Vol, veh/h		337			139			613				
Approach Delay, s/veh		12.9			17.6			7.6				
Approach LOS		B			B			A				

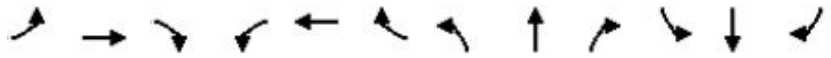
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	18.8	9.4	9.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	5.2	3.2	3.5	3.1
Green Ext Time (p_c), s	2.0	1.4	0.3	0.7

Intersection Summary	
HCM 7th Control Delay, s/veh	10.5
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

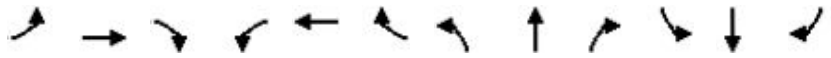


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	358	181	33	420	0	0	0	0	17	0	1
Future Volume (veh/h)	0	358	181	33	420	0	0	0	0	17	0	1
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	393	199	36	462	0				19	0	1
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91				0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	720	360	79	1841	0				633	0	282
Arrive On Green	0.00	0.31	0.31	0.04	0.51	0.00				0.17	0.00	0.17
Sat Flow, veh/h	0	2426	1165	1810	3705	0				3619	0	1610
Grp Volume(v), veh/h	0	303	289	36	462	0				19	0	1
Grp Sat Flow(s),veh/h/ln	0	1805	1690	1810	1805	0				1810	0	1610
Q Serve(g_s), s	0.0	4.0	4.1	0.6	2.1	0.0				0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	4.0	4.1	0.6	2.1	0.0				0.1	0.0	0.0
Prop In Lane	0.00		0.69	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	558	523	79	1841	0				633	0	282
V/C Ratio(X)	0.00	0.54	0.55	0.46	0.25	0.00				0.03	0.00	0.00
Avail Cap(c_a), veh/h	0	1232	1153	412	3853	0				2596	0	1155
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	8.2	8.2	13.3	3.9	0.0				9.8	0.0	9.7
Incr Delay (d2), s/veh	0.0	0.8	0.9	4.1	0.1	0.0				0.0	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.8	0.8	0.2	0.0	0.0				0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.0	9.1	17.4	4.0	0.0				9.8	0.0	9.7
LnGrp LOS		A	A	B	A					A		A
Approach Vol, veh/h		592			498						20	
Approach Delay, s/veh		9.1			5.0						9.8	
Approach LOS		A			A						A	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		5.7	13.3		9.5		19.1					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		2.6	6.1		2.1		4.1					
Green Ext Time (p_c), s		0.0	2.8		0.0		2.6					

Intersection Summary	
HCM 7th Control Delay, s/veh	7.3
HCM 7th LOS	A

Notes
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	366	2	0	349	28	104	0	26	0	0	0
Future Volume (veh/h)	4	366	2	0	349	28	104	0	26	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	5	416	2	0	397	32	118	0	30			
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	12	1589	8	0	873	389	367	0	327			
Arrive On Green	0.01	0.43	0.43	0.00	0.24	0.24	0.20	0.00	0.20			
Sat Flow, veh/h	1810	3684	18	0	3705	1610	1810	0	1610			
Grp Volume(v), veh/h	5	204	214	0	397	32	118	0	30			
Grp Sat Flow(s),veh/h/ln	1810	1805	1897	0	1805	1610	1810	0	1610			
Q Serve(g_s), s	0.1	1.8	1.8	0.0	2.3	0.4	1.4	0.0	0.4			
Cycle Q Clear(g_c), s	0.1	1.8	1.8	0.0	2.3	0.4	1.4	0.0	0.4			
Prop In Lane	1.00		0.01	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	12	779	818	0	873	389	367	0	327			
V/C Ratio(X)	0.40	0.26	0.26	0.00	0.45	0.08	0.32	0.00	0.09			
Avail Cap(c_a), veh/h	1102	2529	2658	0	2199	981	1213	0	1079			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	12.2	4.5	4.5	0.0	8.0	7.2	8.4	0.0	8.0			
Incr Delay (d2), s/veh	19.9	0.2	0.2	0.0	0.4	0.1	0.5	0.0	0.1			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.1			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	32.1	4.7	4.7	0.0	8.3	7.3	8.9	0.0	8.1			
LnGrp LOS	C	A	A		A	A	A		A			
Approach Vol, veh/h		423			429			148				
Approach Delay, s/veh		5.0			8.2			8.7				
Approach LOS		A			A			A				

Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	9.5	15.1	4.7	10.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5	15.0	15.0
Max Q Clear Time (g_c+I1), s	3.4	3.8	2.1	4.3
Green Ext Time (p_c), s	0.4	2.1	0.0	1.7

Intersection Summary	
HCM 7th Control Delay, s/veh	6.9
HCM 7th LOS	A

Intersection	
Intersection Delay, s/veh	7.6
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	10	39	7	13	43	44
Future Vol, veh/h	10	39	7	13	43	44
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	53	10	18	59	60
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7.2	7.8	7.7
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	43	44	10	39	7	13
LT Vol	43	0	0	0	7	0
Through Vol	0	0	10	0	0	13
RT Vol	0	44	0	39	0	0
Lane Flow Rate	59	60	14	53	10	18
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.084	0.066	0.018	0.06	0.014	0.023
Departure Headway (Hd)	5.159	3.958	4.721	4.019	5.242	4.741
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	691	897	748	877	674	744
Service Time	2.916	1.715	2.513	1.811	3.04	2.539
HCM Lane V/C Ratio	0.085	0.067	0.019	0.06	0.015	0.024
HCM Control Delay, s/veh	8.4	7	7.6	7.1	8.1	7.7
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.3	0.2	0.1	0.2	0	0.1

Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	4	75	0	0	0	0	63	10	11	38	0
Future Vol, veh/h	0	4	75	0	0	0	0	63	10	11	38	0
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	5	100	0	0	0	0	84	13	15	51	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7.5	8.2	8.1
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	0%	100%	0%
Vol Thru, %	86%	100%	100%	0%	0%	100%
Vol Right, %	14%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	73	0	4	75	11	38
LT Vol	0	0	0	0	11	0
Through Vol	63	0	4	0	0	38
RT Vol	10	0	0	75	0	0
Lane Flow Rate	97	0	5	100	15	51
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.13	0	0.007	0.117	0.022	0.07
Departure Headway (Hd)	4.8	4.911	4.911	4.209	5.455	4.954
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	749	0	732	855	659	726
Service Time	2.511	2.62	2.62	1.918	3.168	2.667
HCM Lane V/C Ratio	0.13	0	0.007	0.117	0.023	0.07
HCM Control Delay, s/veh	8.2	7.6	7.7	7.5	8.3	8
HCM Lane LOS	A	N	A	A	A	A
HCM 95th-tile Q	0.4	0	0	0.4	0.1	0.2

Intersection	
Int Delay, s/veh	4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	7	20	77	4	5	19	80	53	3	70	5
Future Vol, veh/h	3	7	20	77	4	5	19	80	53	3	70	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	3	8	22	84	4	5	21	87	58	3	76	5

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	216	271	79	243	245	116	82	0	0	145	0	0
Stage 1	85	85	-	157	157	-	-	-	-	-	-	-
Stage 2	130	186	-	86	88	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	745	639	987	715	660	942	1529	-	-	1450	-	-
Stage 1	928	828	-	850	772	-	-	-	-	-	-	-
Stage 2	878	750	-	926	826	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	724	629	987	680	650	942	1529	-	-	1450	-	-
Mov Cap-2 Maneuver	724	629	-	680	650	-	-	-	-	-	-	-
Stage 1	925	826	-	838	761	-	-	-	-	-	-	-
Stage 2	856	740	-	896	824	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.44	11.04	0.92	0.29
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1529	-	-	844	689	1450	-	-
HCM Lane V/C Ratio	0.014	-	-	0.039	0.136	0.002	-	-
HCM Ctrl Dly (s/v)	7.4	-	-	9.4	11	7.5	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.5	0	-	-

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	42	0	11	1	152	79	14	153	1
Future Vol, veh/h	0	0	0	42	0	11	1	152	79	14	153	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	49	0	13	1	179	93	16	180	1

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	395	488	181	441	442	225	181	0	0	272	0	0
Stage 1	214	214	-	228	228	-	-	-	-	-	-	-
Stage 2	181	274	-	213	214	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	569	483	867	530	513	819	1406	-	-	1303	-	-
Stage 1	793	730	-	780	719	-	-	-	-	-	-	-
Stage 2	825	687	-	794	729	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	552	477	867	523	506	819	1406	-	-	1303	-	-
Mov Cap-2 Maneuver	552	477	-	523	506	-	-	-	-	-	-	-
Stage 1	783	720	-	779	719	-	-	-	-	-	-	-
Stage 2	811	686	-	784	720	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0	12.15	0.03	0.65
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	7	-	-	-	566	1303	-	-
HCM Lane V/C Ratio	0.001	-	-	-	0.11	0.013	-	-
HCM Ctrl Dly (s/v)	7.6	0	-	0	12.2	7.8	-	-
HCM Lane LOS	A	A	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	0.4	0	-	-

Intersection	
Int Delay, s/veh	40.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	97	56	264	40	29	6	98	183	39	9	210	35
Future Vol, veh/h	97	56	264	40	29	6	98	183	39	9	210	35
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	200	-	0	115	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	115	67	314	48	35	7	117	218	46	11	250	42

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	761	790	271	756	764	218	292	0	0	264	0	0
Stage 1	292	292	-	451	451	-	-	-	-	-	-	-
Stage 2	468	498	-	305	313	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	325	325	773	327	336	827	1282	-	-	1311	-	-
Stage 1	720	674	-	592	574	-	-	-	-	-	-	-
Stage 2	579	548	-	709	660	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	260	293	773	138	303	827	1282	-	-	1311	-	-
Mov Cap-2 Maneuver	260	293	-	138	303	-	-	-	-	-	-	-
Stage 1	714	669	-	538	522	-	-	-	-	-	-	-
Stage 2	487	498	-	376	655	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	94.59	39.35	2.48	0.28
HCM LOS	F	E		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1282	-	-	460	191	1311	-	-
HCM Lane V/C Ratio	0.091	-	-	1.079	0.467	0.008	-	-
HCM Ctrl Dly (s/v)	8.1	-	-	94.6	39.4	7.8	-	-
HCM Lane LOS	A	-	-	F	E	A	-	-
HCM 95th %tile Q(veh)	0.3	-	-	16.1	2.2	0	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	69	112	94	49	211	74	93	136	70	95	254	114
Future Volume (veh/h)	69	112	94	49	211	74	93	136	70	95	254	114
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	74	120	0	53	227	0	100	146	75	102	273	123
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	129	571		102	517		155	535	261	157	434	368
Arrive On Green	0.07	0.16	0.00	0.06	0.14	0.00	0.09	0.23	0.23	0.09	0.23	0.23
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	2351	1147	1810	1900	1610
Grp Volume(v), veh/h	74	120	0	53	227	0	100	110	111	102	273	123
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1693	1810	1900	1610
Q Serve(g_s), s	1.5	1.1	0.0	1.1	2.2	0.0	2.0	1.9	2.1	2.1	4.9	2.4
Cycle Q Clear(g_c), s	1.5	1.1	0.0	1.1	2.2	0.0	2.0	1.9	2.1	2.1	4.9	2.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.68	1.00		1.00
Lane Grp Cap(c), veh/h	129	571		102	517		155	410	385	157	434	368
V/C Ratio(X)	0.57	0.21		0.52	0.44		0.65	0.27	0.29	0.65	0.63	0.33
Avail Cap(c_a), veh/h	308	3263		593	3831		308	1963	1841	640	2415	2046
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.2	14.0	0.0	17.5	14.9	0.0	16.9	12.1	12.2	16.9	13.3	12.3
Incr Delay (d2), s/veh	4.0	0.2	0.0	4.1	0.6	0.0	4.4	0.3	0.4	4.5	1.5	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.3	0.0	0.5	0.7	0.0	0.8	0.6	0.6	0.8	1.5	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	21.1	14.2	0.0	21.6	15.5	0.0	21.3	12.5	12.6	21.4	14.8	12.8
LnGrp LOS	C	B		C	B		C	B	B	C	B	B
Approach Vol, veh/h		194			280			321			498	
Approach Delay, s/veh		16.8			16.7			15.3			15.6	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.8	13.2	6.6	10.5	7.8	13.2	7.2	10.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	4.1	4.1	3.1	3.1	4.0	6.9	3.5	4.2
Green Ext Time (p_c), s	0.1	1.1	0.0	0.6	0.0	1.8	0.0	1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	16.0
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	2	2	2	296	392	5
Future Vol, veh/h	2	2	2	296	392	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	25	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2	2	2	336	445	6

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	789	448	451	0	-	0
Stage 1	448	-	-	-	-	-
Stage 2	341	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	362	615	1120	-	-	-
Stage 1	648	-	-	-	-	-
Stage 2	725	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	361	615	1120	-	-	-
Mov Cap-2 Maneuver	361	-	-	-	-	-
Stage 1	646	-	-	-	-	-
Stage 2	725	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	12.95	0.06	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	12	-	361	615	-	-
HCM Lane V/C Ratio	0.002	-	0.006	0.004	-	-
HCM Ctrl Dly (s/v)	8.2	0	15	10.9	-	-
HCM Lane LOS	A	A	C	B	-	-
HCM 95th %tile Q(veh)	0	-	0	0	-	-

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	16	0	20	22	1	3	48	280	5	1	375	18
Future Vol, veh/h	16	0	20	22	1	3	48	280	5	1	375	18
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	18	0	22	25	1	3	54	315	6	1	421	20

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	857	862	221	635	866	315	442	0	0	320	0	0
Stage 1	434	434	-	422	422	-	-	-	-	-	-	-
Stage 2	423	428	-	213	444	-	-	-	-	-	-	-
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	267	295	789	380	293	730	1129	-	-	1251	-	-
Stage 1	576	585	-	613	591	-	-	-	-	-	-	-
Stage 2	613	588	-	775	579	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	249	278	789	347	276	730	1129	-	-	1251	-	-
Mov Cap-2 Maneuver	249	278	-	347	276	-	-	-	-	-	-	-
Stage 1	576	584	-	577	557	-	-	-	-	-	-	-
Stage 2	573	554	-	752	578	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	14.96	15.69	1.2	0.02
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1129	-	-	402	366	1251	-	-
HCM Lane V/C Ratio	0.048	-	-	0.101	0.08	0.001	-	-
HCM Ctrl Dly (s/v)	8.3	-	-	15	15.7	7.9	-	-
HCM Lane LOS	A	-	-	B	C	A	-	-
HCM 95th %tile Q(veh)	0.2	-	-	0.3	0.3	0	-	-

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	3	108	104	331	407	10
Future Vol, veh/h	3	108	104	331	407	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	93	95	93	93	93	93
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	3	114	112	356	438	11

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	845	224	448	0	-	0
Stage 1	443	-	-	-	-	-
Stage 2	402	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	306	785	1123	-	-	-
Stage 1	620	-	-	-	-	-
Stage 2	651	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	275	785	1123	-	-	-
Mov Cap-2 Maneuver	399	-	-	-	-	-
Stage 1	558	-	-	-	-	-
Stage 2	651	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	10.46	2.05	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1123	-	399	785	-	-
HCM Lane V/C Ratio	0.1	-	0.008	0.145	-	-
HCM Ctrl Dly (s/v)	8.6	-	14.1	10.4	-	-
HCM Lane LOS	A	-	B	B	-	-
HCM 95th %tile Q(veh)	0.3	-	0	0.5	-	-

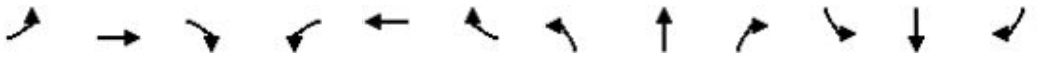
Intersection	
Int Delay, s/veh	2.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	6	565	15	188	468	28	3	0	85	8	0	3
Future Vol, veh/h	6	565	15	188	468	28	3	0	85	8	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	635	17	211	526	31	3	0	96	9	0	3

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	557	0	0	652	0	0	1342	1637	326	1295	1629	279
Stage 1	-	-	-	-	-	-	657	657	-	964	964	-
Stage 2	-	-	-	-	-	-	685	980	-	331	665	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1024	-	-	944	-	-	112	102	676	122	103	725
Stage 1	-	-	-	-	-	-	425	465	-	278	336	-
Stage 2	-	-	-	-	-	-	409	331	-	662	461	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1024	-	-	944	-	-	82	74	676	76	75	725
Mov Cap-2 Maneuver	-	-	-	-	-	-	82	74	-	76	75	-
Stage 1	-	-	-	-	-	-	422	461	-	204	247	-
Stage 2	-	-	-	-	-	-	299	243	-	564	457	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0.09	2.72	13.13	45.62
HCM LOS			B	E

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	541	1024	-	-	944	-	-	101
HCM Lane V/C Ratio	0.183	0.007	-	-	0.224	-	-	0.123
HCM Ctrl Dly (s/v)	13.1	8.5	-	-	9.9	-	-	45.6
HCM Lane LOS	B	A	-	-	A	-	-	E
HCM 95th %tile Q(veh)	0.7	0	-	-	0.9	-	-	0.4

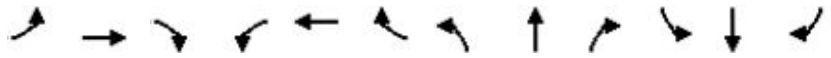


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	626	10	110	587	186	13	2	65	240	4	26
Future Volume (veh/h)	21	626	10	110	587	186	13	2	65	240	4	26
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	23	673	11	118	631	200	14	2	70	261	0	28
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	50	1074	18	155	1386	431	192	201	171	474	0	211
Arrive On Green	0.03	0.30	0.30	0.09	0.35	0.35	0.11	0.11	0.11	0.13	0.00	0.13
Sat Flow, veh/h	1810	3635	59	1810	3917	1218	1810	1900	1610	3619	0	1610
Grp Volume(v), veh/h	23	334	350	118	556	275	14	2	70	261	0	28
Grp Sat Flow(s),veh/h/ln	1810	1805	1889	1810	1729	1677	1810	1900	1610	1810	0	1610
Q Serve(g_s), s	0.6	7.5	7.6	3.0	5.8	6.0	0.3	0.0	1.9	3.2	0.0	0.7
Cycle Q Clear(g_c), s	0.6	7.5	7.6	3.0	5.8	6.0	0.3	0.0	1.9	3.2	0.0	0.7
Prop In Lane	1.00		0.03	1.00		0.73	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	50	533	558	155	1224	593	192	201	171	474	0	211
V/C Ratio(X)	0.46	0.63	0.63	0.76	0.45	0.46	0.07	0.01	0.41	0.55	0.00	0.13
Avail Cap(c_a), veh/h	403	1320	1382	480	2676	1298	902	947	802	2417	0	1075
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	22.6	14.4	14.4	21.1	11.7	11.8	19.0	18.9	19.7	19.2	0.0	18.1
Incr Delay (d2), s/veh	6.5	1.2	1.2	7.4	0.3	0.6	0.2	0.0	1.6	1.0	0.0	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.6	2.7	1.4	1.7	1.8	0.1	0.0	0.7	1.3	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	29.1	15.6	15.5	28.4	12.0	12.3	19.2	18.9	21.3	20.2	0.0	18.4
LnGrp LOS	C	B	B	C	B	B	B	B	C	C		B
Approach Vol, veh/h		707			949			86			289	
Approach Delay, s/veh		16.0			14.1			20.9			20.0	
Approach LOS		B			B			C			C	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		9.5	8.6	18.4		10.7	5.8	21.2				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		23.5	12.5	34.5		31.5	10.5	36.5				
Max Q Clear Time (g_c+I1), s		3.9	5.0	9.6		5.2	2.6	8.0				
Green Ext Time (p_c), s		0.2	0.1	4.0		1.0	0.0	5.7				

Intersection Summary	
HCM 7th Control Delay, s/veh	15.9
HCM 7th LOS	B

Notes
User approved volume balancing among the lanes for turning movement.



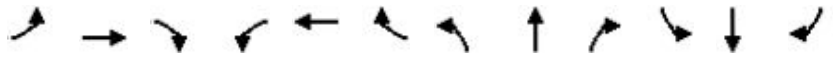
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	502	426	0	431	194	0	0	0	522	0	507
Future Volume (veh/h)	0	502	426	0	431	194	0	0	0	522	0	507
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	540	0	0	463	0				561	0	545
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93				0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1020		0	1020					1574	0	722
Arrive On Green	0.00	0.28	0.00	0.00	0.28	0.00				0.45	0.00	0.45
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	540	0	0	463	0				561	0	545
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	4.2	0.0	0.0	3.5	0.0				3.5	0.0	9.4
Cycle Q Clear(g_c), s	0.0	4.2	0.0	0.0	3.5	0.0				3.5	0.0	9.4
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1020		0	1020					1574	0	722
V/C Ratio(X)	0.00	0.53		0.00	0.45					0.36	0.00	0.75
Avail Cap(c_a), veh/h	0	2752		0	2752					2676	0	1227
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	10.1	0.0	0.0	9.9	0.0				6.1	0.0	7.7
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.0	0.3	0.0				0.1	0.0	1.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.1	0.0	0.0	0.9	0.0				0.4	0.0	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	10.6	0.0	0.0	10.2	0.0				6.2	0.0	9.3
LnGrp LOS		B			B					A		A
Approach Vol, veh/h		540			463						1106	
Approach Delay, s/veh		10.6			10.2						7.7	
Approach LOS		B			B						A	

Timer - Assigned Phs		4		6		8
Phs Duration (G+Y+Rc), s		14.0		19.5		14.0
Change Period (Y+Rc), s		4.5		4.5		4.5
Max Green Setting (Gmax), s		25.5		25.5		25.5
Max Q Clear Time (g_c+I1), s		6.2		11.4		5.5
Green Ext Time (p_c), s		3.2		3.6		2.7

Intersection Summary	
HCM 7th Control Delay, s/veh	9.0
HCM 7th LOS	A

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	294	390	254	0	173	72	264	159	220	47	0	184
Future Volume (veh/h)	294	390	254	0	173	72	264	159	220	47	0	184
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	327	433	0	0	192	80	235	258	244	52	0	204
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	528	1967		0	481	184	766	804	1363	0	0	0
Arrive On Green	0.15	0.38	0.00	0.00	0.13	0.13	0.42	0.42	0.42	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	3864	1411	1810	1900	3220		0	
Grp Volume(v), veh/h	327	433	0	0	179	93	235	258	244		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1646	1810	1900	1610			
Q Serve(g_s), s	4.0	2.6	0.0	0.0	2.2	2.4	3.9	4.1	2.2			
Cycle Q Clear(g_c), s	4.0	2.6	0.0	0.0	2.2	2.4	3.9	4.1	2.2			
Prop In Lane	1.00		1.00	0.00		0.86	1.00		1.00			
Lane Grp Cap(c), veh/h	528	1967		0	451	214	766	804	1363			
V/C Ratio(X)	0.62	0.22		0.00	0.40	0.44	0.31	0.32	0.18			
Avail Cap(c_a), veh/h	1386	5859		0	2199	1047	766	804	1363			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	18.2	9.6	0.0	0.0	18.2	18.3	8.7	8.8	8.2			
Incr Delay (d2), s/veh	1.2	0.1	0.0	0.0	0.6	1.4	1.0	1.1	0.3			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.4	0.7	0.0	0.0	0.8	0.8	1.1	1.2	0.5			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	19.3	9.6	0.0	0.0	18.7	19.7	9.7	9.8	8.5			
LnGrp LOS	B	A			B	B	A	A	A			
Approach Vol, veh/h		760			272			737				
Approach Delay, s/veh		13.8			19.1			9.4				
Approach LOS		B			B			A				

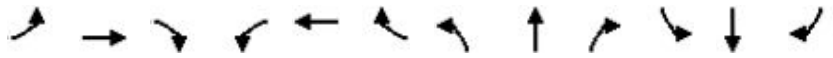
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	21.8	11.4	10.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	6.1	4.6	6.0	4.4
Green Ext Time (p_c), s	2.4	3.0	0.9	1.6

Intersection Summary	
HCM 7th Control Delay, s/veh	12.8
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.



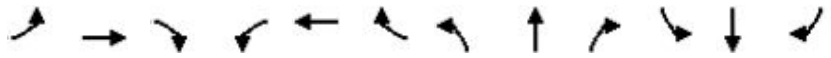
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	316	141	36	601	0	0	0	0	29	6	4
Future Volume (veh/h)	0	316	141	36	601	0	0	0	0	29	6	4
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	333	148	38	633	0				35	0	4
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	668	291	83	1749	0				666	0	296
Arrive On Green	0.00	0.27	0.27	0.05	0.48	0.00				0.18	0.00	0.18
Sat Flow, veh/h	0	2541	1067	1810	3705	0				3619	0	1610
Grp Volume(v), veh/h	0	244	237	38	633	0				35	0	4
Grp Sat Flow(s),veh/h/ln	0	1805	1708	1810	1805	0				1810	0	1610
Q Serve(g_s), s	0.0	3.1	3.2	0.6	3.0	0.0				0.2	0.0	0.1
Cycle Q Clear(g_c), s	0.0	3.1	3.2	0.6	3.0	0.0				0.2	0.0	0.1
Prop In Lane	0.00		0.62	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	493	466	83	1749	0				666	0	296
V/C Ratio(X)	0.00	0.50	0.51	0.46	0.36	0.00				0.05	0.00	0.01
Avail Cap(c_a), veh/h	0	1296	1226	433	4055	0				2732	0	1216
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	8.3	8.3	12.6	4.4	0.0				9.1	0.0	9.1
Incr Delay (d2), s/veh	0.0	0.8	0.9	3.9	0.1	0.0				0.0	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.6	0.6	0.2	0.0	0.0				0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.1	9.2	16.5	4.5	0.0				9.2	0.0	9.1
LnGrp LOS		A	A	B	A					A		A
Approach Vol, veh/h		481			671						39	
Approach Delay, s/veh		9.1			5.2						9.2	
Approach LOS		A			A						A	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		5.7	11.9		9.5		17.7					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		2.6	5.2		2.2		5.0					
Green Ext Time (p_c), s		0.0	2.2		0.1		3.8					

Intersection Summary	
HCM 7th Control Delay, s/veh	6.9
HCM 7th LOS	A

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	337	2	0	423	26	215	3	81	0	0	0
Future Volume (veh/h)	4	337	2	0	423	26	215	3	81	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	4	344	2	0	432	27	219	3	83			
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	10	1573	9	0	895	399	401	5	361			
Arrive On Green	0.01	0.43	0.43	0.00	0.25	0.25	0.22	0.22	0.22			
Sat Flow, veh/h	1810	3680	21	0	3705	1610	1786	24	1610			
Grp Volume(v), veh/h	4	169	177	0	432	27	222	0	83			
Grp Sat Flow(s),veh/h/ln	1810	1805	1896	0	1805	1610	1811	0	1610			
Q Serve(g_s), s	0.1	1.5	1.5	0.0	2.6	0.3	2.8	0.0	1.1			
Cycle Q Clear(g_c), s	0.1	1.5	1.5	0.0	2.6	0.3	2.8	0.0	1.1			
Prop In Lane	1.00		0.01	0.00		1.00	0.99		1.00			
Lane Grp Cap(c), veh/h	10	771	810	0	895	399	406	0	361			
V/C Ratio(X)	0.40	0.22	0.22	0.00	0.48	0.07	0.55	0.00	0.23			
Avail Cap(c_a), veh/h	1050	2409	2530	0	2095	934	1156	0	1028			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	12.8	4.7	4.7	0.0	8.3	7.4	8.9	0.0	8.2			
Incr Delay (d2), s/veh	24.4	0.1	0.1	0.0	0.4	0.1	1.1	0.0	0.3			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.0	0.0	0.4	0.0	0.5	0.0	0.2			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	37.2	4.8	4.8	0.0	8.7	7.5	10.0	0.0	8.5			
LnGrp LOS	D	A	A		A	A	B		A			
Approach Vol, veh/h		350			459			305				
Approach Delay, s/veh		5.2			8.6			9.6				
Approach LOS		A			A			A				

Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	10.3	15.6	4.6	10.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5	15.0	15.0
Max Q Clear Time (g_c+I1), s	4.8	3.5	2.1	4.6
Green Ext Time (p_c), s	1.0	1.7	0.0	1.8

Intersection Summary	
HCM 7th Control Delay, s/veh	7.8
HCM 7th LOS	A

Intersection	
Intersection Delay, s/veh	7.3
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	5	54	10	14	21	61
Future Vol, veh/h	5	54	10	14	21	61
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	6	62	11	16	24	70
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7	7.8	7.3
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	21	61	5	54	10	14
LT Vol	21	0	0	0	10	0
Through Vol	0	0	5	0	0	14
RT Vol	0	61	0	54	0	0
Lane Flow Rate	24	70	6	62	11	16
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.035	0.077	0.007	0.069	0.017	0.021
Departure Headway (Hd)	5.159	3.958	4.676	3.975	5.198	4.697
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	691	898	759	892	684	756
Service Time	2.915	1.714	2.441	1.739	2.965	2.464
HCM Lane V/C Ratio	0.035	0.078	0.008	0.07	0.016	0.021
HCM Control Delay, s/veh	8.1	7	7.5	7	8.1	7.6
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.1	0.2	0	0.2	0.1	0.1

Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	0	60	0	0	0	0	81	5	17	46	0
Future Vol, veh/h	1	0	60	0	0	0	0	81	5	17	46	0
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	0	70	0	0	0	0	94	6	20	53	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7.3	8.2	8.1
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	100%	0%	0%	100%	0%
Vol Thru, %	94%	0%	100%	0%	0%	100%
Vol Right, %	6%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	86	1	0	60	17	46
LT Vol	0	1	0	0	17	0
Through Vol	81	0	0	0	0	46
RT Vol	5	0	0	60	0	0
Lane Flow Rate	100	1	0	70	20	53
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.13	0.002	0	0.082	0.03	0.072
Departure Headway (Hd)	4.696	5.436	4.934	4.232	5.376	4.875
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	752	662	0	851	669	738
Service Time	2.495	3.139	2.638	1.936	3.082	2.581
HCM Lane V/C Ratio	0.133	0.002	0	0.082	0.03	0.072
HCM Control Delay, s/veh	8.2	8.1	7.6	7.3	8.2	8
HCM Lane LOS	A	A	N	A	A	A
HCM 95th-tile Q	0.4	0	0	0.3	0.1	0.2

Intersection	
Int Delay, s/veh	3.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	15	15	67	3	10	13	86	55	3	100	3
Future Vol, veh/h	3	15	15	67	3	10	13	86	55	3	100	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	3	16	16	72	3	11	14	92	59	3	108	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	238	295	109	272	267	122	111	0	0	152	0	0
Stage 1	116	116	-	150	150	-	-	-	-	-	-	-
Stage 2	122	180	-	122	117	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	721	620	950	685	642	934	1492	-	-	1442	-	-
Stage 1	894	804	-	857	777	-	-	-	-	-	-	-
Stage 2	887	755	-	887	803	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	701	612	950	648	635	934	1492	-	-	1442	-	-
Mov Cap-2 Maneuver	701	612	-	648	635	-	-	-	-	-	-	-
Stage 1	892	802	-	849	770	-	-	-	-	-	-	-
Stage 2	865	748	-	853	801	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.11	11.13	0.63	0.21
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1492	-	-	740	673	1442	-	-
HCM Lane V/C Ratio	0.009	-	-	0.048	0.128	0.002	-	-
HCM Ctrl Dly (s/v)	7.4	-	-	10.1	11.1	7.5	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0.4	0	-	-

Intersection	
Int Delay, s/veh	2.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	1	61	0	12	0	142	37	16	164	0
Future Vol, veh/h	0	0	1	61	0	12	0	142	37	16	164	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	1	80	0	16	0	187	49	21	216	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	445	493	216	469	469	211	216	0	0	236	0	0
Stage 1	258	258	-	211	211	-	-	-	-	-	-	-
Stage 2	187	236	-	258	258	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	527	480	829	508	495	834	1366	-	-	1344	-	-
Stage 1	751	698	-	796	731	-	-	-	-	-	-	-
Stage 2	820	714	-	751	698	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	509	472	829	499	487	834	1366	-	-	1344	-	-
Mov Cap-2 Maneuver	509	472	-	499	487	-	-	-	-	-	-	-
Stage 1	739	687	-	796	731	-	-	-	-	-	-	-
Stage 2	804	714	-	738	687	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.35	13.21	0	0.69
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1366	-	-	829	534	1344	-	-
HCM Lane V/C Ratio	-	-	-	0.002	0.18	0.016	-	-
HCM Ctrl Dly (s/v)	0	-	-	9.3	13.2	7.7	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.6	0	-	-

Intersection	
Int Delay, s/veh	64.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	12	9	66	29	43	28	218	479	20	4	333	74
Future Vol, veh/h	12	9	66	29	43	28	218	479	20	4	333	74
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	200	-	0	115	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	78	78	78	78	78	78	78	78	78	78	78	78
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	15	12	85	37	55	36	279	614	26	5	427	95

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1685	1683	474	1616	1705	614	522	0	0	640	0	0
Stage 1	485	485	-	1173	1173	-	-	-	-	-	-	-
Stage 2	1201	1199	-	443	532	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	75	95	594	84	92	495	1055	-	-	954	-	-
Stage 1	567	555	-	236	268	-	-	-	-	-	-	-
Stage 2	228	261	-	598	529	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 12	70	594	46	68	495	1055	-	-	954	-	-
Mov Cap-2 Maneuver	~ 12	70	-	46	68	-	-	-	-	-	-	-
Stage 1	564	552	-	174	197	-	-	-	-	-	-	-
Stage 2	112	192	-	499	526	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	$ 421.45	$ 455.53	2.93	0.09
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1055	-	-	70	76	954	-	-
HCM Lane V/C Ratio	0.265	-	-	1.588	1.695	0.005	-	-
HCM Ctrl Dly (s/v)	9.6	-	-	$ 421.4	$ 455.5	8.8	-	-
HCM Lane LOS	A	-	-	F	F	A	-	-
HCM 95th %tile Q(veh)	1.1	-	-	9.5	11	0	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	71	193	83	62	94	250	79	371	43	162	154	73
Future Volume (veh/h)	71	193	83	62	94	250	79	371	43	162	154	73
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	78	212	0	68	103	0	87	408	47	178	169	80
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	131	472		120	450		140	727	83	236	523	444
Arrive On Green	0.07	0.13	0.00	0.07	0.12	0.00	0.08	0.22	0.22	0.13	0.28	0.28
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	3264	374	1810	1900	1610
Grp Volume(v), veh/h	78	212	0	68	103	0	87	225	230	178	169	80
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1833	1810	1900	1610
Q Serve(g_s), s	1.7	2.2	0.0	1.5	1.0	0.0	1.9	4.4	4.5	3.8	2.8	1.5
Cycle Q Clear(g_c), s	1.7	2.2	0.0	1.5	1.0	0.0	1.9	4.4	4.5	3.8	2.8	1.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.20	1.00		1.00
Lane Grp Cap(c), veh/h	131	472		120	450		140	402	408	236	523	444
V/C Ratio(X)	0.59	0.45		0.57	0.23		0.62	0.56	0.56	0.76	0.32	0.18
Avail Cap(c_a), veh/h	294	3114		565	3655		294	1873	1901	611	2304	1952
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	18.0	16.1	0.0	18.1	15.8	0.0	17.9	13.8	13.8	16.8	11.5	11.0
Incr Delay (d2), s/veh	4.3	0.7	0.0	4.2	0.3	0.0	4.4	1.2	1.2	4.9	0.4	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.7	0.0	0.6	0.3	0.0	0.8	1.4	1.4	1.4	0.8	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	22.2	16.7	0.0	22.3	16.0	0.0	22.3	15.0	15.0	21.7	11.9	11.2
LnGrp LOS	C	B		C	B		C	B	B	C	B	B
Approach Vol, veh/h		290			171			542			427	
Approach Delay, s/veh		18.2			18.5			16.2			15.8	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.7	13.4	7.2	9.7	7.6	15.5	7.4	9.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	5.8	6.5	3.5	4.2	3.9	4.8	3.7	3.0
Green Ext Time (p_c), s	0.3	2.4	0.1	1.1	0.0	1.1	0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	16.8
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	8	0	0	486	297	2
Future Vol, veh/h	8	0	0	486	297	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	25	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	11	0	0	639	391	3

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1032	392	393	0	-	0
Stage 1	392	-	-	-	-	-
Stage 2	639	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	260	661	1176	-	-	-
Stage 1	687	-	-	-	-	-
Stage 2	529	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	260	661	1176	-	-	-
Mov Cap-2 Maneuver	260	-	-	-	-	-
Stage 1	687	-	-	-	-	-
Stage 2	529	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	19.41	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1176	-	260	-	-	-
HCM Lane V/C Ratio	-	-	0.04	-	-	-
HCM Ctrl Dly (s/v)	0	-	19.4	0	-	-
HCM Lane LOS	A	-	C	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-	-

Intersection	
Int Delay, s/veh	1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	13	1	25	1	0	0	26	473	9	5	269	24
Future Vol, veh/h	13	1	25	1	0	0	26	473	9	5	269	24
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	15	1	29	1	0	0	30	544	10	6	309	28

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	938	948	168	770	952	544	337	0	0	554	0	0
Stage 1	334	334	-	603	603	-	-	-	-	-	-	-
Stage 2	603	614	-	167	348	-	-	-	-	-	-	-
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	234	263	853	307	262	543	1234	-	-	1026	-	-
Stage 1	659	646	-	489	491	-	-	-	-	-	-	-
Stage 2	489	486	-	825	638	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	224	252	853	283	251	543	1234	-	-	1026	-	-
Mov Cap-2 Maneuver	224	252	-	283	251	-	-	-	-	-	-	-
Stage 1	655	642	-	472	474	-	-	-	-	-	-	-
Stage 2	472	469	-	790	634	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	14.4	17.78	0.41	0.14
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1234	-	-	428	283	1026	-	-
HCM Lane V/C Ratio	0.024	-	-	0.105	0.004	0.006	-	-
HCM Ctrl Dly (s/v)	8	-	-	14.4	17.8	8.5	-	-
HCM Lane LOS	A	-	-	B	C	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	0	0	-	-

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	4	100	60	502	287	7
Future Vol, veh/h	4	100	60	502	287	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	78	78	78	78	78	78
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	5	128	77	644	368	9

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	848	188	377	0	-	0
Stage 1	372	-	-	-	-	-
Stage 2	476	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	304	828	1193	-	-	-
Stage 1	673	-	-	-	-	-
Stage 2	597	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	285	828	1193	-	-	-
Mov Cap-2 Maneuver	409	-	-	-	-	-
Stage 1	629	-	-	-	-	-
Stage 2	597	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	10.29	0.88	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1193	-	409	828	-	-
HCM Lane V/C Ratio	0.064	-	0.013	0.155	-	-
HCM Ctrl Dly (s/v)	8.2	-	13.9	10.1	-	-
HCM Lane LOS	A	-	B	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0	0.5	-	-

Intersection	
Int Delay, s/veh	2.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	469	19	81	631	30	6	0	152	24	0	8
Future Vol, veh/h	1	469	19	81	631	30	6	0	152	24	0	8
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	499	20	86	671	32	6	0	162	26	0	9

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	703	0	0	519	0	0	1019	1387	260	1111	1381	352
Stage 1	-	-	-	-	-	-	511	511	-	860	860	-
Stage 2	-	-	-	-	-	-	508	876	-	252	521	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	904	-	-	1057	-	-	194	144	745	166	145	650
Stage 1	-	-	-	-	-	-	519	540	-	321	376	-
Stage 2	-	-	-	-	-	-	521	369	-	736	535	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	904	-	-	1057	-	-	172	129	745	117	131	650
Mov Cap-2 Maneuver	-	-	-	-	-	-	172	129	-	117	131	-
Stage 1	-	-	-	-	-	-	518	539	-	289	338	-
Stage 2	-	-	-	-	-	-	462	332	-	576	534	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0.02	0.95	12.29	36.75
HCM LOS			B	E

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	661	904	-	-	1057	-	-	147
HCM Lane V/C Ratio	0.254	0.001	-	-	0.082	-	-	0.232
HCM Ctrl Dly (s/v)	12.3	9	-	-	8.7	-	-	36.8
HCM Lane LOS	B	A	-	-	A	-	-	E
HCM 95th %tile Q(veh)	1	0	-	-	0.3	-	-	0.9

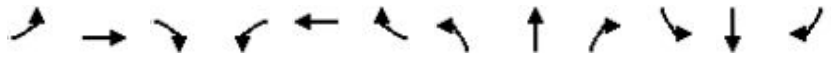
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	36	595	13	50	712	154	4	0	50	231	5	26
Future Volume (veh/h)	36	595	13	50	712	154	4	0	50	231	5	26
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	39	640	14	54	766	166	4	0	54	252	0	28
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	77	1171	26	98	1435	308	194	204	173	465	0	207
Arrive On Green	0.04	0.32	0.32	0.05	0.34	0.34	0.11	0.00	0.11	0.13	0.00	0.13
Sat Flow, veh/h	1810	3612	79	1810	4272	917	1810	1900	1610	3619	0	1610
Grp Volume(v), veh/h	39	320	334	54	619	313	4	0	54	252	0	28
Grp Sat Flow(s),veh/h/ln	1810	1805	1886	1810	1729	1732	1810	1900	1610	1810	0	1610
Q Serve(g_s), s	1.0	6.8	6.8	1.4	6.7	6.8	0.1	0.0	1.4	3.0	0.0	0.7
Cycle Q Clear(g_c), s	1.0	6.8	6.8	1.4	6.7	6.8	0.1	0.0	1.4	3.0	0.0	0.7
Prop In Lane	1.00		0.04	1.00		0.53	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	77	585	612	98	1161	581	194	204	173	465	0	207
V/C Ratio(X)	0.51	0.55	0.55	0.55	0.53	0.54	0.02	0.00	0.31	0.54	0.00	0.14
Avail Cap(c_a), veh/h	407	1335	1395	485	2706	1355	912	957	811	2444	0	1087
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	21.9	12.9	12.9	21.5	12.5	12.6	18.6	0.0	19.2	19.0	0.0	18.0
Incr Delay (d2), s/veh	5.1	0.8	0.8	4.8	0.4	0.8	0.0	0.0	1.0	1.0	0.0	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.2	2.3	0.6	2.0	2.1	0.0	0.0	0.5	1.2	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	26.9	13.7	13.7	26.3	12.9	13.3	18.7	0.0	20.3	20.0	0.0	18.3
LnGrp LOS	C	B	B	C	B	B	B		C	C		B
Approach Vol, veh/h		693			986			58			280	
Approach Delay, s/veh		14.5			13.8			20.1			19.8	
Approach LOS		B			B			C			B	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	9.5	7.0	19.6	10.5	6.5	20.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	23.5	12.5	34.5	31.5	10.5	36.5
Max Q Clear Time (g_c+I1), s	3.4	3.4	8.8	5.0	3.0	8.8
Green Ext Time (p_c), s	0.1	0.1	3.8	1.0	0.0	6.5

Intersection Summary	
HCM 7th Control Delay, s/veh	15.0
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.



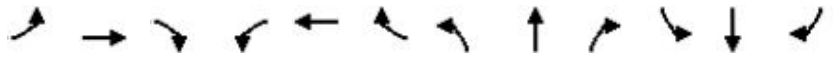
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	406	424	0	550	105	0	0	0	230	0	400
Future Volume (veh/h)	0	406	424	0	550	105	0	0	0	230	0	400
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	441	0	0	598	0				250	0	435
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1171		0	1171					1307	0	600
Arrive On Green	0.00	0.32	0.00	0.00	0.32	0.00				0.37	0.00	0.37
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	441	0	0	598	0				250	0	435
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	2.8	0.0	0.0	4.0	0.0				1.4	0.0	6.9
Cycle Q Clear(g_c), s	0.0	2.8	0.0	0.0	4.0	0.0				1.4	0.0	6.9
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1171		0	1171					1307	0	600
V/C Ratio(X)	0.00	0.38		0.00	0.51					0.19	0.00	0.73
Avail Cap(c_a), veh/h	0	3101		0	3101					3016	0	1383
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	7.7	0.0	0.0	8.1	0.0				6.3	0.0	8.0
Incr Delay (d2), s/veh	0.0	0.2	0.0	0.0	0.3	0.0				0.1	0.0	1.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.6	0.0	0.0	0.9	0.0				0.2	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	7.9	0.0	0.0	8.5	0.0				6.4	0.0	9.7
LnGrp LOS		A			A					A		A
Approach Vol, veh/h		441			598						685	
Approach Delay, s/veh		7.9			8.5						8.5	
Approach LOS		A			A						A	

Timer - Assigned Phs		4		6		8
Phs Duration (G+Y+Rc), s		14.1		15.6		14.1
Change Period (Y+Rc), s		4.5		4.5		4.5
Max Green Setting (Gmax), s		25.5		25.5		25.5
Max Q Clear Time (g_c+I1), s		4.8		8.9		6.0
Green Ext Time (p_c), s		2.6		2.2		3.7

Intersection Summary	
HCM 7th Control Delay, s/veh	8.3
HCM 7th LOS	A

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	128	202	283	0	103	33	438	93	184	18	0	116
Future Volume (veh/h)	128	202	283	0	103	33	438	93	184	18	0	116
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	131	206	0	0	105	34	515	0	188	18	0	118
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	404	1743		0	457	136	1639	0	1458	0	0	0
Arrive On Green	0.12	0.34	0.00	0.00	0.12	0.12	0.45	0.00	0.45	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	4135	1181	3619	0	3220		0	
Grp Volume(v), veh/h	131	206	0	0	90	49	515	0	188		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1687	1810	0	1610			
Q Serve(g_s), s	1.5	1.2	0.0	0.0	1.0	1.1	3.9	0.0	1.4			
Cycle Q Clear(g_c), s	1.5	1.2	0.0	0.0	1.0	1.1	3.9	0.0	1.4			
Prop In Lane	1.00		1.00	0.00		0.70	1.00		1.00			
Lane Grp Cap(c), veh/h	404	1743		0	399	195	1639	0	1458			
V/C Ratio(X)	0.32	0.12		0.00	0.23	0.25	0.31	0.00	0.13			
Avail Cap(c_a), veh/h	1482	6267		0	2353	1148	1639	0	1458			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	17.3	9.8	0.0	0.0	17.1	17.2	7.4	0.0	6.8			
Incr Delay (d2), s/veh	0.5	0.0	0.0	0.0	0.3	0.7	0.5	0.0	0.2			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.5	0.3	0.0	0.0	0.3	0.4	0.9	0.0	0.3			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	17.8	9.8	0.0	0.0	17.4	17.8	7.9	0.0	7.0			
LnGrp LOS	B	A			B	B	A		A			
Approach Vol, veh/h		337			139			703				
Approach Delay, s/veh		12.9			17.6			7.7				
Approach LOS		B			B			A				

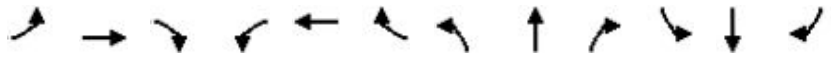
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	18.8	9.4	9.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	5.9	3.2	3.5	3.1
Green Ext Time (p_c), s	2.2	1.4	0.3	0.7

Intersection Summary	
HCM 7th Control Delay, s/veh	10.3
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

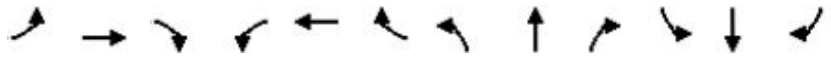


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	390	236	33	591	0	0	0	0	17	0	1
Future Volume (veh/h)	0	390	236	33	591	0	0	0	0	17	0	1
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	429	259	36	649	0				19	0	1
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91				0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	735	440	78	1921	0				605	0	269
Arrive On Green	0.00	0.34	0.34	0.04	0.53	0.00				0.17	0.00	0.17
Sat Flow, veh/h	0	2267	1300	1810	3705	0				3619	0	1610
Grp Volume(v), veh/h	0	356	332	36	649	0				19	0	1
Grp Sat Flow(s),veh/h/ln	0	1805	1666	1810	1805	0				1810	0	1610
Q Serve(g_s), s	0.0	4.9	4.9	0.6	3.1	0.0				0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	4.9	4.9	0.6	3.1	0.0				0.1	0.0	0.0
Prop In Lane	0.00		0.78	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	611	564	78	1921	0				605	0	269
V/C Ratio(X)	0.00	0.58	0.59	0.46	0.34	0.00				0.03	0.00	0.00
Avail Cap(c_a), veh/h	0	1176	1086	393	3680	0				2479	0	1103
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	8.2	8.2	14.0	4.0	0.0				10.4	0.0	10.4
Incr Delay (d2), s/veh	0.0	0.9	1.0	4.2	0.1	0.0				0.0	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.0	0.9	0.2	0.0	0.0				0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.0	9.2	18.1	4.1	0.0				10.5	0.0	10.4
LnGrp LOS		A	A	B	A					B		B
Approach Vol, veh/h		688			685						20	
Approach Delay, s/veh		9.1			4.8						10.5	
Approach LOS		A			A						B	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		5.8	14.6		9.5		20.4					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		2.6	6.9		2.1		5.1					
Green Ext Time (p_c), s		0.0	3.2		0.0		3.9					

Intersection Summary	
HCM 7th Control Delay, s/veh	7.0
HCM 7th LOS	A

Notes
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	398	2	0	409	30	215	0	26	0	0	0
Future Volume (veh/h)	4	398	2	0	409	30	215	0	26	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	5	452	2	0	465	34	244	0	30			
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	12	1594	7	0	927	414	416	0	370			
Arrive On Green	0.01	0.43	0.43	0.00	0.26	0.26	0.23	0.00	0.23			
Sat Flow, veh/h	1810	3686	16	0	3705	1610	1810	0	1610			
Grp Volume(v), veh/h	5	221	233	0	465	34	244	0	30			
Grp Sat Flow(s),veh/h/ln	1810	1805	1897	0	1805	1610	1810	0	1610			
Q Serve(g_s), s	0.1	2.1	2.1	0.0	2.9	0.4	3.2	0.0	0.4			
Cycle Q Clear(g_c), s	0.1	2.1	2.1	0.0	2.9	0.4	3.2	0.0	0.4			
Prop In Lane	1.00		0.01	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	12	781	821	0	927	414	416	0	370			
V/C Ratio(X)	0.41	0.28	0.28	0.00	0.50	0.08	0.59	0.00	0.08			
Avail Cap(c_a), veh/h	1018	2336	2455	0	2031	906	1120	0	996			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	13.2	4.9	4.9	0.0	8.4	7.5	9.1	0.0	8.1			
Incr Delay (d2), s/veh	20.0	0.2	0.2	0.0	0.4	0.1	1.3	0.0	0.1			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.1	0.1	0.0	0.5	0.1	0.6	0.0	0.1			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	33.2	5.1	5.1	0.0	8.9	7.6	10.5	0.0	8.1			
LnGrp LOS	C	A	A		A	A	B		A			
Approach Vol, veh/h		459			499			274				
Approach Delay, s/veh		5.4			8.8			10.2				
Approach LOS		A			A			B				

Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	10.6	16.0	4.7	11.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5	15.0	15.0
Max Q Clear Time (g_c+I1), s	5.2	4.1	2.1	4.9
Green Ext Time (p_c), s	0.9	2.3	0.0	1.9

Intersection Summary	
HCM 7th Control Delay, s/veh	7.8
HCM 7th LOS	A

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	6	0	179	29	3	223
Future Vol, veh/h	6	0	179	29	3	223
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	7	0	195	32	3	242

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	459	113	0	0	226	0
Stage 1	210	-	-	-	-	-
Stage 2	249	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	549	925	-	-	1354	-
Stage 1	810	-	-	-	-	-
Stage 2	797	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	548	925	-	-	1354	-
Mov Cap-2 Maneuver	616	-	-	-	-	-
Stage 1	810	-	-	-	-	-
Stage 2	795	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.9	0	0.1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	616	1354	-
HCM Lane V/C Ratio	-	-	0.011	0.002	-
HCM Ctrl Dly (s/v)	-	-	10.9	7.7	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	4	1	207	15	3	226
Future Vol, veh/h	4	1	207	15	3	226
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	1	225	16	3	246

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	485	121	0	0	241	0
Stage 1	233	-	-	-	-	-
Stage 2	252	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	530	914	-	-	1337	-
Stage 1	790	-	-	-	-	-
Stage 2	795	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	529	914	-	-	1337	-
Mov Cap-2 Maneuver	602	-	-	-	-	-
Stage 1	790	-	-	-	-	-
Stage 2	793	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.62	0	0.1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	646	1337	-
HCM Lane V/C Ratio	-	-	0.008	0.002	-
HCM Ctrl Dly (s/v)	-	-	10.6	7.7	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	0.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	13	0	222	52	5	225
Future Vol, veh/h	13	0	222	52	5	225
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	0	241	57	5	245

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	525	149	0	0	298	0
Stage 1	270	-	-	-	-	-
Stage 2	255	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	502	877	-	-	1275	-
Stage 1	757	-	-	-	-	-
Stage 2	792	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	499	877	-	-	1275	-
Mov Cap-2 Maneuver	580	-	-	-	-	-
Stage 1	757	-	-	-	-	-
Stage 2	788	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.36	0	0.17
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	580	1275	-
HCM Lane V/C Ratio	-	-	0.024	0.004	-
HCM Ctrl Dly (s/v)	-	-	11.4	7.8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	4	1	273	15	3	235
Future Vol, veh/h	4	1	273	15	3	235
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	1	297	16	3	255

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	567	157	0	0	313	0
Stage 1	305	-	-	-	-	-
Stage 2	262	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	473	868	-	-	1259	-
Stage 1	727	-	-	-	-	-
Stage 2	787	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	472	868	-	-	1259	-
Mov Cap-2 Maneuver	559	-	-	-	-	-
Stage 1	727	-	-	-	-	-
Stage 2	784	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.04	0	0.1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	602	1259	-
HCM Lane V/C Ratio	-	-	0.009	0.003	-
HCM Ctrl Dly (s/v)	-	-	11	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	13	0	287	52	5	234
Future Vol, veh/h	13	0	287	52	5	234
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	0	312	57	5	254

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	605	184	0	0	368	0
Stage 1	340	-	-	-	-	-
Stage 2	265	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	448	833	-	-	1201	-
Stage 1	698	-	-	-	-	-
Stage 2	784	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	446	833	-	-	1201	-
Mov Cap-2 Maneuver	539	-	-	-	-	-
Stage 1	698	-	-	-	-	-
Stage 2	780	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.86	0	0.17
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	539	1201	-
HCM Lane V/C Ratio	-	-	0.026	0.005	-
HCM Ctrl Dly (s/v)	-	-	11.9	8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	3	1	338	15	3	244
Future Vol, veh/h	3	1	338	15	3	244
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	3	1	367	16	3	265

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	647	192	0	0	384	0
Stage 1	376	-	-	-	-	-
Stage 2	272	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	423	824	-	-	1186	-
Stage 1	670	-	-	-	-	-
Stage 2	779	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	422	824	-	-	1186	-
Mov Cap-2 Maneuver	518	-	-	-	-	-
Stage 1	670	-	-	-	-	-
Stage 2	776	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.35	0	0.1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	571	1186	-
HCM Lane V/C Ratio	-	-	0.008	0.003	-
HCM Ctrl Dly (s/v)	-	-	11.3	8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	1.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	89	10	343	116	13	234
Future Vol, veh/h	89	10	343	116	13	234
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	97	11	373	126	14	254

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	718	249	0	0	499	0
Stage 1	436	-	-	-	-	-
Stage 2	283	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	383	757	-	-	1076	-
Stage 1	625	-	-	-	-	-
Stage 2	770	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	378	757	-	-	1076	-
Mov Cap-2 Maneuver	482	-	-	-	-	-
Stage 1	625	-	-	-	-	-
Stage 2	760	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	14.16	0	0.44
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	500	1076	-
HCM Lane V/C Ratio	-	-	0.215	0.013	-
HCM Ctrl Dly (s/v)	-	-	14.2	8.4	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.8	0	-

Intersection	
Int Delay, s/veh	1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	38	7	452	42	6	317
Future Vol, veh/h	38	7	452	42	6	317
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	41	8	491	46	7	345

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	872	514	0	0	537	0
Stage 1	514	-	-	-	-	-
Stage 2	358	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	324	564	-	-	1041	-
Stage 1	604	-	-	-	-	-
Stage 2	712	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	322	564	-	-	1041	-
Mov Cap-2 Maneuver	322	-	-	-	-	-
Stage 1	604	-	-	-	-	-
Stage 2	708	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	17.16	0	0.16
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	345	1041	-
HCM Lane V/C Ratio	-	-	0.142	0.006	-
HCM Ctrl Dly (s/v)	-	-	17.2	8.5	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	0.5	0	-

Intersection	
Intersection Delay, s/veh	7.6
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	10	39	7	13	43	72
Future Vol, veh/h	10	39	7	13	43	72
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	53	10	18	59	99
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7.3	7.9	7.6
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	43	72	10	39	7	13
LT Vol	43	0	0	0	7	0
Through Vol	0	0	10	0	0	13
RT Vol	0	72	0	39	0	0
Lane Flow Rate	59	99	14	53	10	18
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.084	0.108	0.019	0.062	0.014	0.024
Departure Headway (Hd)	5.159	3.958	4.893	4.19	5.422	4.92
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	690	897	736	860	664	732
Service Time	2.924	1.723	2.593	1.89	3.123	2.621
HCM Lane V/C Ratio	0.086	0.11	0.019	0.062	0.015	0.025
HCM Control Delay, s/veh	8.4	7.2	7.7	7.2	8.2	7.7
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.3	0.4	0.1	0.2	0	0.1

Intersection	
Intersection Delay, s/veh	8.3
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	4	97	0	0	0	0	91	10	11	38	0
Future Vol, veh/h	0	4	97	0	0	0	0	91	10	11	38	0
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	5	129	0	0	0	0	121	13	15	51	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7.8	8.7	8.3
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	0%	100%	0%
Vol Thru, %	90%	100%	100%	0%	0%	100%
Vol Right, %	10%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	101	0	4	97	11	38
LT Vol	0	0	0	0	11	0
Through Vol	91	0	4	0	0	38
RT Vol	10	0	0	97	0	0
Lane Flow Rate	135	0	5	129	15	51
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.184	0	0.007	0.155	0.023	0.072
Departure Headway (Hd)	4.908	5.012	5.012	4.31	5.613	5.111
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	733	0	716	834	639	702
Service Time	2.625	2.727	2.727	2.024	3.334	2.832
HCM Lane V/C Ratio	0.184	0	0.007	0.155	0.023	0.073
HCM Control Delay, s/veh	8.7	7.7	7.8	7.8	8.5	8.2
HCM Lane LOS	A	N	A	A	A	A
HCM 95th-tile Q	0.7	0	0	0.5	0.1	0.2

Intersection	
Int Delay, s/veh	3.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	7	20	86	4	5	19	108	63	3	92	5
Future Vol, veh/h	3	7	20	86	4	5	19	108	63	3	92	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	3	8	22	93	4	5	21	117	68	3	100	5

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	270	336	103	303	305	152	105	0	0	186	0	0
Stage 1	109	109	-	193	193	-	-	-	-	-	-	-
Stage 2	161	227	-	110	112	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	687	588	958	653	612	900	1498	-	-	1401	-	-
Stage 1	901	809	-	813	745	-	-	-	-	-	-	-
Stage 2	846	720	-	900	807	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	667	578	958	620	602	900	1498	-	-	1401	-	-
Mov Cap-2 Maneuver	667	578	-	620	602	-	-	-	-	-	-	-
Stage 1	899	807	-	802	734	-	-	-	-	-	-	-
Stage 2	824	710	-	869	805	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.69	11.84	0.74	0.23
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1498	-	-	800	629	1401	-	-
HCM Lane V/C Ratio	0.014	-	-	0.041	0.164	0.002	-	-
HCM Ctrl Dly (s/v)	7.4	-	-	9.7	11.8	7.6	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.6	0	-	-

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	42	0	11	1	190	80	14	183	1
Future Vol, veh/h	0	0	0	42	0	11	1	190	80	14	183	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	49	0	13	1	224	94	16	215	1

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	475	569	216	521	522	271	216	0	0	318	0	0
Stage 1	249	249	-	273	273	-	-	-	-	-	-	-
Stage 2	226	320	-	248	249	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	504	435	829	469	462	773	1365	-	-	1254	-	-
Stage 1	760	704	-	737	688	-	-	-	-	-	-	-
Stage 2	781	656	-	760	704	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	488	429	829	462	455	773	1365	-	-	1254	-	-
Mov Cap-2 Maneuver	488	429	-	462	455	-	-	-	-	-	-	-
Stage 1	750	695	-	737	687	-	-	-	-	-	-	-
Stage 2	767	655	-	750	695	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0	13.14	0.03	0.56
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	6	-	-	-	504	1254	-	-
HCM Lane V/C Ratio	0.001	-	-	-	0.124	0.013	-	-
HCM Ctrl Dly (s/v)	7.6	0	-	0	13.1	7.9	-	-
HCM Lane LOS	A	A	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	0.4	0	-	-

Intersection	
Int Delay, s/veh	287.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	97	56	264	40	29	6	98	432	39	9	515	35
Future Vol, veh/h	97	56	264	40	29	6	98	432	39	9	515	35
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	200	-	0	115	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	115	67	314	48	35	7	117	514	46	11	613	42

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1420	1449	634	1415	1424	514	655	0	0	561	0	0
Stage 1	655	655	-	748	748	-	-	-	-	-	-	-
Stage 2	765	794	-	668	676	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	~ 115	132	483	116	137	564	942	-	-	1021	-	-
Stage 1	458	466	-	408	423	-	-	-	-	-	-	-
Stage 2	399	403	-	451	456	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 73	115	483	~ 16	119	564	942	-	-	1021	-	-
Mov Cap-2 Maneuver	~ 73	115	-	~ 16	119	-	-	-	-	-	-	-
Stage 1	453	461	-	357	370	-	-	-	-	-	-	-
Stage 2	313	353	-	133	451	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	$ 874.35	$ 1332.8	1.61	0.14
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	942	-	-	176	27	1021	-	-
HCM Lane V/C Ratio	0.124	-	-	2.819	3.291	0.01	-	-
HCM Ctrl Dly (s/v)	9.4	-	-	$ 874.3	$ 1332.8	8.6	-	-
HCM Lane LOS	A	-	-	F	F	A	-	-
HCM 95th %tile Q(veh)	0.4	-	-	44.2	10.9	0	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	77	112	94	49	211	200	93	251	70	249	395	124
Future Volume (veh/h)	77	112	94	49	211	200	93	251	70	249	395	124
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	83	120	0	53	227	0	100	270	75	268	425	133
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	131	546		98	480		145	561	153	339	584	495
Arrive On Green	0.07	0.15	0.00	0.05	0.13	0.00	0.08	0.20	0.20	0.19	0.31	0.31
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	2804	764	1810	1900	1610
Grp Volume(v), veh/h	83	120	0	53	227	0	100	172	173	268	425	133
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1763	1810	1900	1610
Q Serve(g_s), s	2.0	1.3	0.0	1.3	2.6	0.0	2.4	3.7	3.8	6.2	8.8	2.8
Cycle Q Clear(g_c), s	2.0	1.3	0.0	1.3	2.6	0.0	2.4	3.7	3.8	6.2	8.8	2.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.43	1.00		1.00
Lane Grp Cap(c), veh/h	131	546		98	480		145	361	353	339	584	495
V/C Ratio(X)	0.63	0.22		0.54	0.47		0.69	0.48	0.49	0.79	0.73	0.27
Avail Cap(c_a), veh/h	266	2820		512	3310		266	1696	1656	553	2086	1768
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.9	16.5	0.0	20.4	17.7	0.0	19.8	15.6	15.7	17.1	13.7	11.6
Incr Delay (d2), s/veh	5.0	0.2	0.0	4.6	0.7	0.0	5.8	1.0	1.1	4.2	1.8	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.4	0.0	0.6	0.9	0.0	1.0	1.2	1.3	2.3	2.7	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	24.9	16.7	0.0	24.9	18.4	0.0	25.5	16.6	16.7	21.3	15.4	11.8
LnGrp LOS	C	B		C	B		C	B	B	C	B	B
Approach Vol, veh/h		203			280			445			826	
Approach Delay, s/veh		20.0			19.7			18.7			16.8	
Approach LOS		C			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.8	13.3	6.9	11.2	8.0	18.1	7.7	10.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	8.2	5.8	3.3	3.3	4.4	10.8	4.0	4.6
Green Ext Time (p_c), s	0.3	1.8	0.0	0.6	0.0	2.7	0.0	1.3

Intersection Summary	
HCM 7th Control Delay, s/veh	18.1
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	2	2	2	412	533	5
Future Vol, veh/h	2	2	2	412	533	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	25	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2	2	2	468	606	6

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1081	609	611	0	-	0
Stage 1	609	-	-	-	-	-
Stage 2	473	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	243	499	977	-	-	-
Stage 1	547	-	-	-	-	-
Stage 2	631	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	242	499	977	-	-	-
Mov Cap-2 Maneuver	242	-	-	-	-	-
Stage 1	545	-	-	-	-	-
Stage 2	631	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	16.12	0.04	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	9	-	242	499	-	-
HCM Lane V/C Ratio	0.002	-	0.009	0.005	-	-
HCM Ctrl Dly (s/v)	8.7	0	20	12.2	-	-
HCM Lane LOS	A	A	C	B	-	-
HCM 95th %tile Q(veh)	0	-	0	0	-	-

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	16	0	20	22	1	3	48	395	5	1	516	18
Future Vol, veh/h	16	0	20	22	1	3	48	395	5	1	516	18
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	0	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	18	0	22	25	1	3	54	444	6	1	580	20

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1144	1149	300	844	1154	444	600	0	0	449	0	0
Stage 1	592	592	-	552	552	-	-	-	-	-	-	-
Stage 2	552	557	-	292	602	-	-	-	-	-	-	-
Critical Hdwy	7.3	6.5	6.9	7.3	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	167	200	702	272	199	618	987	-	-	1122	-	-
Stage 1	464	497	-	522	518	-	-	-	-	-	-	-
Stage 2	521	515	-	697	492	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	153	185	702	244	184	618	987	-	-	1122	-	-
Mov Cap-2 Maneuver	153	185	-	244	184	-	-	-	-	-	-	-
Stage 1	464	496	-	484	480	-	-	-	-	-	-	-
Stage 2	480	478	-	674	491	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	20.6	20.66	0.95	0.02
HCM LOS	C	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	987	-	-	271	259	1122	-	-
HCM Lane V/C Ratio	0.055	-	-	0.149	0.113	0.001	-	-
HCM Ctrl Dly (s/v)	8.9	-	-	20.6	20.7	8.2	-	-
HCM Lane LOS	A	-	-	C	C	A	-	-
HCM 95th %tile Q(veh)	0.2	-	-	0.5	0.4	0	-	-

Intersection	
Int Delay, s/veh	1.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	3	108	104	446	548	10
Future Vol, veh/h	3	108	104	446	548	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	93	95	93	93	93	93
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	3	114	112	480	589	11

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1058	300	600	0	-	0
Stage 1	595	-	-	-	-	-
Stage 2	463	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	223	702	987	-	-	-
Stage 1	520	-	-	-	-	-
Stage 2	606	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	198	702	987	-	-	-
Mov Cap-2 Maneuver	327	-	-	-	-	-
Stage 1	461	-	-	-	-	-
Stage 2	606	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	11.25	1.72	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	987	-	327	702	-	-
HCM Lane V/C Ratio	0.113	-	0.01	0.162	-	-
HCM Ctrl Dly (s/v)	9.1	-	16.1	11.1	-	-
HCM Lane LOS	A	-	C	B	-	-
HCM 95th %tile Q(veh)	0.4	-	0	0.6	-	-

Intersection	
Int Delay, s/veh	2.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	6	706	15	188	583	28	3	0	85	8	0	3
Future Vol, veh/h	6	706	15	188	583	28	3	0	85	8	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	793	17	211	655	31	3	0	96	9	0	3

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	687	0	0	810	0	0	1565	1924	405	1503	1917	343
Stage 1	-	-	-	-	-	-	815	815	-	1093	1093	-
Stage 2	-	-	-	-	-	-	750	1109	-	410	824	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	917	-	-	825	-	-	77	68	601	85	68	659
Stage 1	-	-	-	-	-	-	342	394	-	232	293	-
Stage 2	-	-	-	-	-	-	374	288	-	595	390	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	917	-	-	825	-	-	52	46	601	49	46	659
Mov Cap-2 Maneuver	-	-	-	-	-	-	52	46	-	49	46	-
Stage 1	-	-	-	-	-	-	339	390	-	158	200	-
Stage 2	-	-	-	-	-	-	254	196	-	495	387	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0.07	2.56	15.5	72.97
HCM LOS			C	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	441	917	-	-	825	-	-	65
HCM Lane V/C Ratio	0.224	0.007	-	-	0.256	-	-	0.19
HCM Ctrl Dly (s/v)	15.5	9	-	-	10.9	-	-	73
HCM Lane LOS	C	A	-	-	B	-	-	F
HCM 95th %tile Q(veh)	0.8	0	-	-	1	-	-	0.6

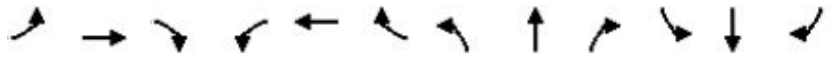
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	767	10	110	702	186	13	2	65	240	4	26
Future Volume (veh/h)	21	767	10	110	702	186	13	2	65	240	4	26
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	23	825	11	118	755	200	14	2	70	261	0	28
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	49	1230	16	155	1619	424	177	186	158	458	0	204
Arrive On Green	0.03	0.34	0.34	0.09	0.40	0.40	0.10	0.10	0.10	0.13	0.00	0.13
Sat Flow, veh/h	1810	3648	49	1810	4090	1072	1810	1900	1610	3619	0	1610
Grp Volume(v), veh/h	23	408	428	118	637	318	14	2	70	261	0	28
Grp Sat Flow(s),veh/h/ln	1810	1805	1891	1810	1729	1704	1810	1900	1610	1810	0	1610
Q Serve(g_s), s	0.6	9.9	9.9	3.3	7.0	7.1	0.4	0.0	2.1	3.5	0.0	0.8
Cycle Q Clear(g_c), s	0.6	9.9	9.9	3.3	7.0	7.1	0.4	0.0	2.1	3.5	0.0	0.8
Prop In Lane	1.00		0.03	1.00		0.63	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	49	609	638	155	1369	674	177	186	158	458	0	204
V/C Ratio(X)	0.47	0.67	0.67	0.76	0.47	0.47	0.08	0.01	0.44	0.57	0.00	0.14
Avail Cap(c_a), veh/h	372	1220	1278	443	2472	1218	833	875	741	2233	0	994
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	24.5	14.5	14.5	22.8	11.4	11.5	20.9	20.8	21.7	21.0	0.0	19.8
Incr Delay (d2), s/veh	6.7	1.3	1.2	7.4	0.2	0.5	0.2	0.0	2.0	1.1	0.0	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	3.4	3.6	1.5	2.1	2.1	0.2	0.0	0.8	1.4	0.0	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	31.2	15.8	15.7	30.2	11.7	12.0	21.1	20.8	23.7	22.1	0.0	20.1
LnGrp LOS	C	B	B	C	B	B	C	C	C	C		C
Approach Vol, veh/h		859			1073			86			289	
Approach Delay, s/veh		16.2			13.8			23.2			21.9	
Approach LOS		B			B			C			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	9.5	8.9	21.7	11.0	5.9	24.7
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	23.5	12.5	34.5	31.5	10.5	36.5
Max Q Clear Time (g_c+I1), s	4.1	5.3	11.9	5.5	2.6	9.1
Green Ext Time (p_c), s	0.2	0.1	5.0	1.0	0.0	6.7

Intersection Summary	
HCM 7th Control Delay, s/veh	16.0
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.



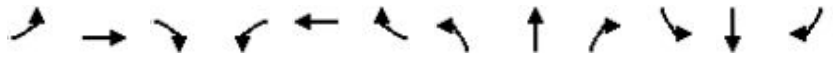
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑	↱		↑↑	↱				↰↰		↱
Traffic Volume (veh/h)	0	502	567	0	546	194	0	0	0	522	0	507
Future Volume (veh/h)	0	502	567	0	546	194	0	0	0	522	0	507
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	540	0	0	587	0				561	0	545
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93				0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1069		0	1069					1558	0	715
Arrive On Green	0.00	0.30	0.00	0.00	0.30	0.00				0.44	0.00	0.44
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	540	0	0	587	0				561	0	545
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	4.3	0.0	0.0	4.7	0.0				3.7	0.0	9.9
Cycle Q Clear(g_c), s	0.0	4.3	0.0	0.0	4.7	0.0				3.7	0.0	9.9
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1069		0	1069					1558	0	715
V/C Ratio(X)	0.00	0.50		0.00	0.55					0.36	0.00	0.76
Avail Cap(c_a), veh/h	0	2658		0	2658					2585	0	1186
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	10.1	0.0	0.0	10.2	0.0				6.4	0.0	8.1
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.0	0.4	0.0				0.1	0.0	1.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.1	0.0	0.0	1.3	0.0				0.5	0.0	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	10.5	0.0	0.0	10.7	0.0				6.5	0.0	9.8
LnGrp LOS		B			B					A		A
Approach Vol, veh/h		540			587						1106	
Approach Delay, s/veh		10.5			10.7						8.1	
Approach LOS		B			B						A	

Timer - Assigned Phs		4		6		8			
Phs Duration (G+Y+Rc), s		14.8		19.9		14.8			
Change Period (Y+Rc), s		4.5		4.5		4.5			
Max Green Setting (Gmax), s		25.5		25.5		25.5			
Max Q Clear Time (g_c+I1), s		6.3		11.9		6.7			
Green Ext Time (p_c), s		3.2		3.5		3.5			

Intersection Summary	
HCM 7th Control Delay, s/veh	9.4
HCM 7th LOS	A

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	294	390	254	0	173	72	379	159	220	47	0	184
Future Volume (veh/h)	294	390	254	0	173	72	379	159	220	47	0	184
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	327	433	0	0	192	80	299	348	244	52	0	204
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	528	1967		0	481	184	766	804	1363	0	0	0
Arrive On Green	0.15	0.38	0.00	0.00	0.13	0.13	0.42	0.42	0.42	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	3864	1411	1810	1900	3220		0	
Grp Volume(v), veh/h	327	433	0	0	179	93	299	348	244		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1646	1810	1900	1610			
Q Serve(g_s), s	4.0	2.6	0.0	0.0	2.2	2.4	5.2	5.9	2.2			
Cycle Q Clear(g_c), s	4.0	2.6	0.0	0.0	2.2	2.4	5.2	5.9	2.2			
Prop In Lane	1.00		1.00	0.00		0.86	1.00		1.00			
Lane Grp Cap(c), veh/h	528	1967		0	451	214	766	804	1363			
V/C Ratio(X)	0.62	0.22		0.00	0.40	0.44	0.39	0.43	0.18			
Avail Cap(c_a), veh/h	1386	5859		0	2199	1047	766	804	1363			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	18.2	9.6	0.0	0.0	18.2	18.3	9.1	9.3	8.2			
Incr Delay (d2), s/veh	1.2	0.1	0.0	0.0	0.6	1.4	1.5	1.7	0.3			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.4	0.7	0.0	0.0	0.8	0.8	1.5	1.8	0.5			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	19.3	9.6	0.0	0.0	18.7	19.7	10.6	11.0	8.5			
LnGrp LOS	B	A			B	B	B	B	A			
Approach Vol, veh/h		760			272			891				
Approach Delay, s/veh		13.8			19.1			10.2				
Approach LOS		B			B			B				

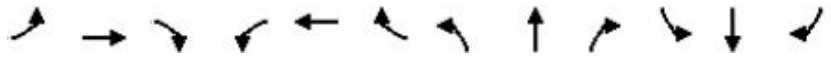
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	21.8	11.4	10.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	7.9	4.6	6.0	4.4
Green Ext Time (p_c), s	2.9	3.0	0.9	1.6

Intersection Summary	
HCM 7th Control Delay, s/veh	12.9
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

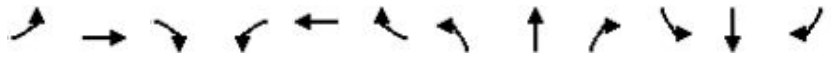


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	369	242	36	727	0	0	0	0	29	6	4
Future Volume (veh/h)	0	369	242	36	727	0	0	0	0	29	6	4
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	388	255	38	765	0				35	0	4
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	684	444	82	1892	0				615	0	274
Arrive On Green	0.00	0.33	0.33	0.05	0.52	0.00				0.17	0.00	0.17
Sat Flow, veh/h	0	2193	1362	1810	3705	0				3619	0	1610
Grp Volume(v), veh/h	0	333	310	38	765	0				35	0	4
Grp Sat Flow(s),veh/h/ln	0	1805	1655	1810	1805	0				1810	0	1610
Q Serve(g_s), s	0.0	4.5	4.6	0.6	3.8	0.0				0.2	0.0	0.1
Cycle Q Clear(g_c), s	0.0	4.5	4.6	0.6	3.8	0.0				0.2	0.0	0.1
Prop In Lane	0.00		0.82	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	588	539	82	1892	0				615	0	274
V/C Ratio(X)	0.00	0.57	0.57	0.46	0.40	0.00				0.06	0.00	0.01
Avail Cap(c_a), veh/h	0	1197	1097	400	3743	0				2522	0	1122
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	8.2	8.2	13.7	4.2	0.0				10.2	0.0	10.2
Incr Delay (d2), s/veh	0.0	0.9	1.0	4.0	0.1	0.0				0.0	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.9	0.9	0.2	0.0	0.0				0.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.1	9.2	17.7	4.4	0.0				10.3	0.0	10.2
LnGrp LOS		A	A	B	A					B		B
Approach Vol, veh/h		643			803						39	
Approach Delay, s/veh		9.1			5.0						10.3	
Approach LOS		A			A						B	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		5.8	14.1		9.5		19.9					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		2.6	6.6		2.2		5.8					
Green Ext Time (p_c), s		0.0	3.0		0.1		4.7					

Intersection Summary	
HCM 7th Control Delay, s/veh	6.9
HCM 7th LOS	A

Notes
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	390	2	0	467	26	297	3	81	0	0	0
Future Volume (veh/h)	4	390	2	0	467	26	297	3	81	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	4	398	2	0	477	27	303	3	83			
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	10	1534	8	0	911	406	476	5	428			
Arrive On Green	0.01	0.42	0.42	0.00	0.25	0.25	0.27	0.27	0.27			
Sat Flow, veh/h	1810	3683	19	0	3705	1610	1793	18	1610			
Grp Volume(v), veh/h	4	195	205	0	477	27	306	0	83			
Grp Sat Flow(s),veh/h/ln	1810	1805	1897	0	1805	1610	1810	0	1610			
Q Serve(g_s), s	0.1	2.0	2.0	0.0	3.2	0.4	4.2	0.0	1.1			
Cycle Q Clear(g_c), s	0.1	2.0	2.0	0.0	3.2	0.4	4.2	0.0	1.1			
Prop In Lane	1.00		0.01	0.00		1.00	0.99		1.00			
Lane Grp Cap(c), veh/h	10	752	790	0	911	406	481	0	428			
V/C Ratio(X)	0.40	0.26	0.26	0.00	0.52	0.07	0.64	0.00	0.19			
Avail Cap(c_a), veh/h	958	2198	2309	0	1911	852	1054	0	938			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	14.0	5.4	5.4	0.0	9.1	8.1	9.2	0.0	8.1			
Incr Delay (d2), s/veh	24.4	0.2	0.2	0.0	0.5	0.1	1.4	0.0	0.2			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.2	0.2	0.0	0.6	0.1	0.8	0.0	0.2			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	38.5	5.6	5.6	0.0	9.6	8.1	10.6	0.0	8.3			
LnGrp LOS	D	A	A		A	A	B		A			
Approach Vol, veh/h		404			504			389				
Approach Delay, s/veh		5.9			9.5			10.1				
Approach LOS		A			A			B				

Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	12.0	16.3	4.7	11.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5	15.0	15.0
Max Q Clear Time (g_c+I1), s	6.2	4.0	2.1	5.2
Green Ext Time (p_c), s	1.3	2.0	0.0	1.9

Intersection Summary	
HCM 7th Control Delay, s/veh	8.6
HCM 7th LOS	A

Intersection	
Int Delay, s/veh	0.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	23	3	268	15	2	223
Future Vol, veh/h	23	3	268	15	2	223
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	25	3	291	16	2	242

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	546	154	0	0	308	0
Stage 1	299	-	-	-	-	-
Stage 2	247	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	487	871	-	-	1264	-
Stage 1	732	-	-	-	-	-
Stage 2	799	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	486	871	-	-	1264	-
Mov Cap-2 Maneuver	569	-	-	-	-	-
Stage 1	732	-	-	-	-	-
Stage 2	798	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.38	0	0.07
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	593	1264	-
HCM Lane V/C Ratio	-	-	0.048	0.002	-
HCM Ctrl Dly (s/v)	-	-	11.4	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	2	281	8	1	245
Future Vol, veh/h	12	2	281	8	1	245
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	13	2	305	9	1	266

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	578	157	0	0	314	0
Stage 1	310	-	-	-	-	-
Stage 2	268	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	466	867	-	-	1258	-
Stage 1	723	-	-	-	-	-
Stage 2	781	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	465	867	-	-	1258	-
Mov Cap-2 Maneuver	554	-	-	-	-	-
Stage 1	723	-	-	-	-	-
Stage 2	781	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.33	0	0.03
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	584	1258	-
HCM Lane V/C Ratio	-	-	0.026	0.001	-
HCM Ctrl Dly (s/v)	-	-	11.3	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	42	4	285	27	2	255
Future Vol, veh/h	42	4	285	27	2	255
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	46	4	310	29	2	277

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	606	170	0	0	339	0
Stage 1	324	-	-	-	-	-
Stage 2	282	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	448	851	-	-	1231	-
Stage 1	711	-	-	-	-	-
Stage 2	771	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	447	851	-	-	1231	-
Mov Cap-2 Maneuver	541	-	-	-	-	-
Stage 1	711	-	-	-	-	-
Stage 2	769	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	12.08	0	0.06
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	558	1231	-
HCM Lane V/C Ratio	-	-	0.09	0.002	-
HCM Ctrl Dly (s/v)	-	-	12.1	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	2	310	7	2	295
Future Vol, veh/h	12	2	310	7	2	295
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	13	2	337	8	2	321

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	666	172	0	0	345	0
Stage 1	341	-	-	-	-	-
Stage 2	325	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	412	848	-	-	1226	-
Stage 1	698	-	-	-	-	-
Stage 2	737	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	412	848	-	-	1226	-
Mov Cap-2 Maneuver	514	-	-	-	-	-
Stage 1	698	-	-	-	-	-
Stage 2	735	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.8	0	0.05
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	545	1226	-
HCM Lane V/C Ratio	-	-	0.028	0.002	-
HCM Ctrl Dly (s/v)	-	-	11.8	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	42	4	313	26	2	305
Future Vol, veh/h	42	4	313	26	2	305
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	46	4	340	28	2	332

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	690	184	0	0	368	0
Stage 1	354	-	-	-	-	-
Stage 2	336	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	398	833	-	-	1201	-
Stage 1	687	-	-	-	-	-
Stage 2	728	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	398	833	-	-	1201	-
Mov Cap-2 Maneuver	504	-	-	-	-	-
Stage 1	687	-	-	-	-	-
Stage 2	727	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	12.63	0	0.05
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	522	1201	-
HCM Lane V/C Ratio	-	-	0.096	0.002	-
HCM Ctrl Dly (s/v)	-	-	12.6	8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	2	337	8	1	346
Future Vol, veh/h	12	2	337	8	1	346
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	13	2	366	9	1	376

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	749	188	0	0	375	0
Stage 1	371	-	-	-	-	-
Stage 2	378	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	367	829	-	-	1195	-
Stage 1	674	-	-	-	-	-
Stage 2	697	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	367	829	-	-	1195	-
Mov Cap-2 Maneuver	480	-	-	-	-	-
Stage 1	674	-	-	-	-	-
Stage 2	696	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	12.27	0	0.02
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	511	1195	-
HCM Lane V/C Ratio	-	-	0.03	0.001	-
HCM Ctrl Dly (s/v)	-	-	12.3	8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	2.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	119	12	333	112	13	345
Future Vol, veh/h	119	12	333	112	13	345
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	129	13	362	122	14	375

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	826	242	0	0	484	0
Stage 1	423	-	-	-	-	-
Stage 2	403	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	329	765	-	-	1090	-
Stage 1	635	-	-	-	-	-
Stage 2	679	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	325	765	-	-	1090	-
Mov Cap-2 Maneuver	446	-	-	-	-	-
Stage 1	635	-	-	-	-	-
Stage 2	670	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	16.18	0	0.3
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	463	1090	-
HCM Lane V/C Ratio	-	-	0.307	0.013	-
HCM Ctrl Dly (s/v)	-	-	16.2	8.3	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	1.3	0	-

Intersection	
Int Delay, s/veh	0.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	44	8	437	45	9	455
Future Vol, veh/h	44	8	437	45	9	455
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	48	9	475	49	10	495

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1014	262	0	0	524	0
Stage 1	499	-	-	-	-	-
Stage 2	514	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	252	743	-	-	1053	-
Stage 1	581	-	-	-	-	-
Stage 2	604	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	250	743	-	-	1053	-
Mov Cap-2 Maneuver	383	-	-	-	-	-
Stage 1	581	-	-	-	-	-
Stage 2	599	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	15.07	0	0.16
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	414	1053	-
HCM Lane V/C Ratio	-	-	0.137	0.009	-
HCM Ctrl Dly (s/v)	-	-	15.1	8.5	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	0.5	0	-

Intersection	
Intersection Delay, s/veh	7.3
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	22	47	8	25	28	39
Future Vol, veh/h	22	47	8	25	28	39
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	23	49	8	26	29	41
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7.1	7.7	7.4
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	28	39	22	47	8	25
LT Vol	28	0	0	0	8	0
Through Vol	0	0	22	0	0	25
RT Vol	0	39	0	47	0	0
Lane Flow Rate	29	41	23	49	8	26
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.042	0.045	0.03	0.054	0.012	0.034
Departure Headway (Hd)	5.179	3.978	4.638	3.937	5.159	4.659
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	687	891	767	902	690	763
Service Time	2.944	1.742	2.396	1.695	2.92	2.419
HCM Lane V/C Ratio	0.042	0.046	0.03	0.054	0.012	0.034
HCM Control Delay, s/veh	8.2	6.9	7.5	6.9	8	7.6
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.1	0.1	0.1	0.2	0	0.1

Intersection	
Intersection Delay, s/veh	7.8
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	11	0	54	0	0	0	0	57	28	25	43	0
Future Vol, veh/h	11	0	54	0	0	0	0	57	28	25	43	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	12	0	57	0	0	0	0	60	29	26	45	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7.4	7.9	8
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	100%	0%	0%	100%	0%
Vol Thru, %	67%	0%	100%	0%	0%	100%
Vol Right, %	33%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	85	11	0	54	25	43
LT Vol	0	11	0	0	25	0
Through Vol	57	0	0	0	0	43
RT Vol	28	0	0	54	0	0
Lane Flow Rate	89	12	0	57	26	45
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.112	0.017	0	0.066	0.038	0.06
Departure Headway (Hd)	4.496	5.398	4.897	4.195	5.255	4.754
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	785	667	0	859	673	743
Service Time	2.295	3.098	2.597	1.895	3.051	2.55
HCM Lane V/C Ratio	0.113	0.018	0	0.066	0.039	0.061
HCM Control Delay, s/veh	7.9	8.2	7.6	7.2	8.3	7.9
HCM Lane LOS	A	A	N	A	A	A
HCM 95th-tile Q	0.4	0.1	0	0.2	0.1	0.2

Intersection	
Int Delay, s/veh	6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	18	45	8	31	42	16	3	37	12	20	60	17
Future Vol, veh/h	18	45	8	31	42	16	3	37	12	20	60	17
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	19	47	8	33	44	17	3	39	13	21	63	18

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	182	172	72	181	175	45	81	0	0	52	0	0
Stage 1	114	114	-	52	52	-	-	-	-	-	-	-
Stage 2	67	58	-	129	123	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	784	725	996	786	722	1030	1529	-	-	1567	-	-
Stage 1	896	805	-	966	856	-	-	-	-	-	-	-
Stage 2	948	851	-	880	798	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	713	713	996	717	711	1030	1529	-	-	1567	-	-
Mov Cap-2 Maneuver	713	713	-	717	711	-	-	-	-	-	-	-
Stage 1	883	794	-	964	854	-	-	-	-	-	-	-
Stage 2	882	849	-	809	787	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.44	10.44	0.42	1.51
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1529	-	-	737	755	1567	-	-
HCM Lane V/C Ratio	0.002	-	-	0.101	0.124	0.013	-	-
HCM Ctrl Dly (s/v)	7.4	-	-	10.4	10.4	7.3	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0.4	0	-	-

Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	3	92	0	0	2	51	76	0	106	0
Future Vol, veh/h	0	0	3	92	0	0	2	51	76	0	106	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	3	97	0	0	2	54	80	0	112	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	169	249	112	209	209	94	112	0	0	134	0	0
Stage 1	112	112	-	98	98	-	-	-	-	-	-	-
Stage 2	58	138	-	112	112	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	799	657	947	752	691	969	1491	-	-	1463	-	-
Stage 1	898	807	-	913	818	-	-	-	-	-	-	-
Stage 2	959	786	-	898	807	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	797	656	947	748	690	969	1491	-	-	1463	-	-
Mov Cap-2 Maneuver	797	656	-	748	690	-	-	-	-	-	-	-
Stage 1	898	807	-	912	817	-	-	-	-	-	-	-
Stage 2	957	785	-	895	807	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	8.81	10.52	0.12	0
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	25	-	-	947	748	1463	-	-
HCM Lane V/C Ratio	0.001	-	-	0.003	0.129	-	-	-
HCM Ctrl Dly (s/v)	7.4	0	-	8.8	10.5	0	-	-
HCM Lane LOS	A	A	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.4	0	-	-

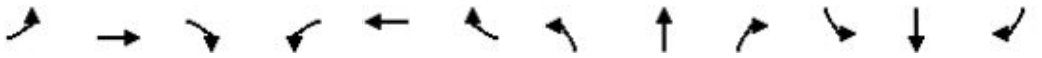
Intersection	
Int Delay, s/veh	16.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	15	13	87	30	61	71	346	119	13	24	131	94
Future Vol, veh/h	15	13	87	30	61	71	346	119	13	24	131	94
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	200	-	0	115	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	16	14	92	32	64	75	364	125	14	25	138	99

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1124	1105	187	1049	1141	125	237	0	0	139	0	0
Stage 1	238	238	-	854	854	-	-	-	-	-	-	-
Stage 2	886	867	-	195	287	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	184	212	860	207	202	931	1342	-	-	1457	-	-
Stage 1	770	712	-	356	378	-	-	-	-	-	-	-
Stage 2	342	373	-	811	678	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	77	152	860	124	145	931	1342	-	-	1457	-	-
Mov Cap-2 Maneuver	77	152	-	124	145	-	-	-	-	-	-	-
Stage 1	757	700	-	260	276	-	-	-	-	-	-	-
Stage 2	176	272	-	698	666	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	24.66	62.38	6.28	0.72
HCM LOS	C	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1342	-	-	302	219	1457	-	-
HCM Lane V/C Ratio	0.271	-	-	0.401	0.778	0.017	-	-
HCM Ctrl Dly (s/v)	8.7	-	-	24.7	62.4	7.5	-	-
HCM Lane LOS	A	-	-	C	F	A	-	-
HCM 95th %tile Q(veh)	1.1	-	-	1.9	5.5	0.1	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	103	176	456	40	117	98	350	307	40	71	135	85
Future Volume (veh/h)	103	176	456	40	117	98	350	307	40	71	135	85
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	108	185	0	42	123	0	368	323	42	75	142	89
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	161	611		85	459		306	783	101	130	277	235
Arrive On Green	0.09	0.17	0.00	0.05	0.13	0.00	0.17	0.24	0.24	0.07	0.15	0.15
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	3216	415	1810	1900	1610
Grp Volume(v), veh/h	108	185	0	42	123	0	368	180	185	75	142	89
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1825	1810	1900	1610
Q Serve(g_s), s	2.2	1.7	0.0	0.9	1.2	0.0	6.5	3.2	3.3	1.5	2.6	1.9
Cycle Q Clear(g_c), s	2.2	1.7	0.0	0.9	1.2	0.0	6.5	3.2	3.3	1.5	2.6	1.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.23	1.00		1.00
Lane Grp Cap(c), veh/h	161	611		85	459		306	439	444	130	277	235
V/C Ratio(X)	0.67	0.30		0.49	0.27		1.20	0.41	0.42	0.58	0.51	0.38
Avail Cap(c_a), veh/h	306	3243		589	3807		306	1951	1973	636	2400	2034
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	16.9	14.0	0.0	17.9	15.1	0.0	16.0	12.2	12.2	17.3	15.1	14.8
Incr Delay (d2), s/veh	4.8	0.3	0.0	4.4	0.3	0.0	117.7	0.6	0.6	4.0	1.5	1.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	0.5	0.0	0.4	0.4	0.0	11.9	0.9	1.0	0.6	0.9	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	21.7	14.2	0.0	22.2	15.5	0.0	133.6	12.8	12.9	21.3	16.6	15.8
LnGrp LOS	C	B		C	B		F	B	B	C	B	B
Approach Vol, veh/h		293			165			733			306	
Approach Delay, s/veh		17.0			17.2			73.5			17.5	
Approach LOS		B			B			E			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.3	13.8	6.3	11.0	11.0	10.1	7.9	9.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	3.5	5.3	2.9	3.7	8.5	4.6	4.2	3.2
Green Ext Time (p_c), s	0.1	1.9	0.0	1.0	0.0	1.0	0.0	0.7

Intersection Summary	
HCM 7th Control Delay, s/veh	44.8
HCM 7th LOS	D

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	0.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	30	0	0	635	477	12
Future Vol, veh/h	30	0	0	635	477	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	25	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	32	0	0	668	502	13

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1177	508	515	0	-	0
Stage 1	508	-	-	-	-	-
Stage 2	668	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	213	569	1061	-	-	-
Stage 1	608	-	-	-	-	-
Stage 2	513	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	213	569	1061	-	-	-
Mov Cap-2 Maneuver	213	-	-	-	-	-
Stage 1	608	-	-	-	-	-
Stage 2	513	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	24.81	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1061	-	213	-	-	-
HCM Lane V/C Ratio	-	-	0.148	-	-	-
HCM Ctrl Dly (s/v)	0	-	24.8	0	-	-
HCM Lane LOS	A	-	C	A	-	-
HCM 95th %tile Q(veh)	0	-	0.5	-	-	-

Intersection	
Int Delay, s/veh	1.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	16	1	42	2	0	0	51	642	20	9	442	35
Future Vol, veh/h	16	1	42	2	0	0	51	642	20	9	442	35
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	25	-	-	25	0	-	-	0	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	17	1	44	2	0	0	54	676	21	9	465	37

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	948	1307	251	1046	1315	348	502	0	0	697	0	0
Stage 1	503	503	-	794	794	-	-	-	-	-	-	-
Stage 2	445	804	-	252	521	-	-	-	-	-	-	-
Critical Hdwy	7.5	6.5	6.9	7.5	6.5	6.9	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.5	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	219	161	755	185	159	654	1073	-	-	909	-	-
Stage 1	525	545	-	352	403	-	-	-	-	-	-	-
Stage 2	567	398	-	736	535	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	205	152	755	163	150	654	1073	-	-	909	-	-
Mov Cap-2 Maneuver	205	152	-	163	150	-	-	-	-	-	-	-
Stage 1	519	539	-	335	383	-	-	-	-	-	-	-
Stage 2	539	378	-	684	529	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	14.26	27.37	0.61	0.17
HCM LOS	B	D		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1073	-	-	201	755	163	-	909	-	-
HCM Lane V/C Ratio	0.05	-	-	0.089	0.059	0.013	-	0.01	-	-
HCM Ctrl Dly (s/v)	8.5	-	-	24.6	10.1	27.4	0	9	-	-
HCM Lane LOS	A	-	-	C	B	D	A	A	-	-
HCM 95th %tile Q(veh)	0.2	-	-	0.3	0.2	0	-	0	-	-

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	59	119	79	680	448	44
Future Vol, veh/h	59	119	79	680	448	44
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	62	125	83	716	472	46

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1019	259	518	0	-	0
Stage 1	495	-	-	-	-	-
Stage 2	524	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	237	746	1058	-	-	-
Stage 1	584	-	-	-	-	-
Stage 2	564	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	218	746	1058	-	-	-
Mov Cap-2 Maneuver	351	-	-	-	-	-
Stage 1	538	-	-	-	-	-
Stage 2	564	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	13	0.9	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1058	-	351	746	-	-
HCM Lane V/C Ratio	0.079	-	0.177	0.168	-	-
HCM Ctrl Dly (s/v)	8.7	-	17.5	10.8	-	-
HCM Lane LOS	A	-	C	B	-	-
HCM 95th %tile Q(veh)	0.3	-	0.6	0.6	-	-

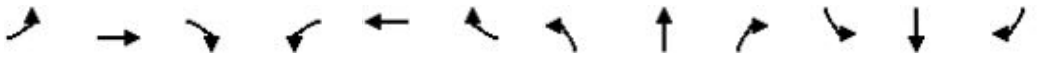
Intersection	
Int Delay, s/veh	2.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	558	11	90	673	31	8	0	139	25	0	9
Future Vol, veh/h	2	558	11	90	673	31	8	0	139	25	0	9
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	0	-	-	-	-	25	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	2	587	12	95	708	33	8	0	146	26	0	9

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	741	0	0	599	0	0	1141	1528	299	1212	1517	371
Stage 1	-	-	-	-	-	-	597	597	-	914	914	-
Stage 2	-	-	-	-	-	-	544	931	-	298	603	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	875	-	-	988	-	-	158	119	703	140	120	632
Stage 1	-	-	-	-	-	-	461	494	-	298	355	-
Stage 2	-	-	-	-	-	-	496	348	-	692	491	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	875	-	-	988	-	-	140	107	703	100	108	632
Mov Cap-2 Maneuver	-	-	-	-	-	-	140	107	-	100	108	-
Stage 1	-	-	-	-	-	-	460	493	-	269	321	-
Stage 2	-	-	-	-	-	-	442	315	-	546	490	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0.03	1.02	12.6	43.38
HCM LOS			B	E

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	140	703	875	-	-	988	-	-	129
HCM Lane V/C Ratio	0.06	0.208	0.002	-	-	0.096	-	-	0.278
HCM Ctrl Dly (s/v)	32.3	11.5	9.1	-	-	9	-	-	43.4
HCM Lane LOS	D	B	A	-	-	A	-	-	E
HCM 95th %tile Q(veh)	0.2	0.8	0	-	-	0.3	-	-	1.1

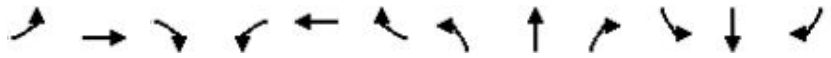


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	15	739	11	90	808	153	8	2	79	207	7	16
Future Volume (veh/h)	15	739	11	90	808	153	8	2	79	207	7	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	16	778	12	95	851	161	8	2	83	223	0	17
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	36	1199	18	135	1684	317	188	198	168	422	0	188
Arrive On Green	0.02	0.33	0.33	0.07	0.38	0.38	0.10	0.10	0.10	0.12	0.00	0.12
Sat Flow, veh/h	1810	3639	56	1810	4383	824	1810	1900	1610	3619	0	1610
Grp Volume(v), veh/h	16	386	404	95	670	342	8	2	83	223	0	17
Grp Sat Flow(s),veh/h/ln	1810	1805	1890	1810	1729	1749	1810	1900	1610	1810	0	1610
Q Serve(g_s), s	0.4	8.8	8.8	2.5	7.1	7.2	0.2	0.0	2.3	2.8	0.0	0.5
Cycle Q Clear(g_c), s	0.4	8.8	8.8	2.5	7.1	7.2	0.2	0.0	2.3	2.8	0.0	0.5
Prop In Lane	1.00		0.03	1.00		0.47	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	36	595	623	135	1329	672	188	198	168	422	0	188
V/C Ratio(X)	0.44	0.65	0.65	0.70	0.50	0.51	0.04	0.01	0.49	0.53	0.00	0.09
Avail Cap(c_a), veh/h	396	1297	1358	471	2629	1330	886	930	788	2375	0	1057
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	23.3	13.7	13.7	21.7	11.3	11.3	19.3	19.3	20.3	20.0	0.0	18.9
Incr Delay (d2), s/veh	8.2	1.2	1.1	6.4	0.3	0.6	0.1	0.0	2.2	1.0	0.0	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	2.9	3.1	1.1	2.1	2.2	0.1	0.0	0.9	1.1	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	31.5	14.9	14.9	28.1	11.6	11.9	19.4	19.3	22.6	21.0	0.0	19.1
LnGrp LOS	C	B	B	C	B	B	B	B	C	C		B
Approach Vol, veh/h		806			1107			93			240	
Approach Delay, s/veh		15.2			13.1			22.2			20.9	
Approach LOS		B			B			C			C	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		9.5	8.1	20.3		10.1	5.5	22.9				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		23.5	12.5	34.5		31.5	10.5	36.5				
Max Q Clear Time (g_c+I1), s		4.3	4.5	10.8		4.8	2.4	9.2				
Green Ext Time (p_c), s		0.2	0.1	4.8		0.8	0.0	7.1				

Intersection Summary	
HCM 7th Control Delay, s/veh	15.1
HCM 7th LOS	B

Notes
User approved volume balancing among the lanes for turning movement.



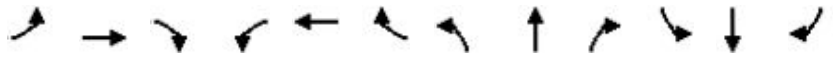
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑	↱		↑↑	↱				↰↰		↱
Traffic Volume (veh/h)	0	583	442	0	599	0	0	0	0	255	0	498
Future Volume (veh/h)	0	583	442	0	599	0	0	0	0	255	0	498
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	614	0	0	631	0				268	0	524
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1147		0	1147					1456	0	668
Arrive On Green	0.00	0.32	0.00	0.00	0.32	0.00				0.41	0.00	0.41
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	614	0	0	631	0				268	0	524
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	4.7	0.0	0.0	4.9	0.0				1.6	0.0	9.5
Cycle Q Clear(g_c), s	0.0	4.7	0.0	0.0	4.9	0.0				1.6	0.0	9.5
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1147		0	1147					1456	0	668
V/C Ratio(X)	0.00	0.54		0.00	0.55					0.18	0.00	0.78
Avail Cap(c_a), veh/h	0	2737		0	2737					2661	0	1221
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	9.4	0.0	0.0	9.5	0.0				6.2	0.0	8.5
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.0	0.4	0.0				0.1	0.0	2.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.2	0.0	0.0	1.2	0.0				0.2	0.0	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.8	0.0	0.0	9.9	0.0				6.3	0.0	10.6
LnGrp LOS		A			A					A		B
Approach Vol, veh/h		614			631						792	
Approach Delay, s/veh		9.8			9.9						9.2	
Approach LOS		A			A						A	

Timer - Assigned Phs		4		6		8
Phs Duration (G+Y+Rc), s		15.2		18.5		15.2
Change Period (Y+Rc), s		4.5		4.5		4.5
Max Green Setting (Gmax), s		25.5		25.5		25.5
Max Q Clear Time (g_c+I1), s		6.7		11.5		6.9
Green Ext Time (p_c), s		3.7		2.5		3.8

Intersection Summary	
HCM 7th Control Delay, s/veh	9.6
HCM 7th LOS	A

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	123	406	33	0	729	48	355	89	308	7	0	304
Future Volume (veh/h)	123	406	33	0	729	48	355	89	308	7	0	304
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	129	427	0	0	767	51	234	290	324	7	0	320
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	340	2346		0	1335	88	676	710	1203	0	0	0
Arrive On Green	0.10	0.45	0.00	0.00	0.27	0.27	0.37	0.37	0.37	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	5141	329	1810	1900	3220		0	
Grp Volume(v), veh/h	129	427	0	0	533	285	234	290	324		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1841	1810	1900	1610			
Q Serve(g_s), s	1.8	2.5	0.0	0.0	6.9	6.9	4.8	5.8	3.6			
Cycle Q Clear(g_c), s	1.8	2.5	0.0	0.0	6.9	6.9	4.8	5.8	3.6			
Prop In Lane	1.00		1.00	0.00		0.18	1.00		1.00			
Lane Grp Cap(c), veh/h	340	2346		0	929	494	676	710	1203			
V/C Ratio(X)	0.38	0.18		0.00	0.57	0.58	0.35	0.41	0.27			
Avail Cap(c_a), veh/h	1223	5169		0	1941	1033	676	710	1203			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	21.9	8.4	0.0	0.0	16.3	16.4	11.6	12.0	11.3			
Incr Delay (d2), s/veh	0.7	0.0	0.0	0.0	0.6	1.1	1.4	1.7	0.6			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.7	0.7	0.0	0.0	2.3	2.6	1.6	2.0	1.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	22.6	8.5	0.0	0.0	16.9	17.4	13.1	13.7	11.8			
LnGrp LOS	C	A			B	B	B	B	B			
Approach Vol, veh/h		556			818			848				
Approach Delay, s/veh		11.8			17.1			12.8				
Approach LOS		B			B			B				

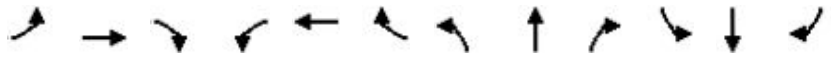
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	27.9	9.5	18.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	7.8	4.5	3.8	8.9
Green Ext Time (p_c), s	2.7	3.0	0.3	4.9

Intersection Summary	
HCM 7th Control Delay, s/veh	14.1
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.



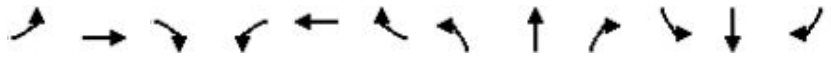
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	266	177	71	330	0	0	0	0	36	9	19
Future Volume (veh/h)	0	266	177	71	330	0	0	0	0	36	9	19
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	280	186	75	347	0				24	29	20
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	556	359	143	1816	0				321	337	286
Arrive On Green	0.00	0.26	0.26	0.08	0.50	0.00				0.18	0.18	0.18
Sat Flow, veh/h	0	2200	1356	1810	3705	0				1810	1900	1610
Grp Volume(v), veh/h	0	239	227	75	347	0				24	29	20
Grp Sat Flow(s),veh/h/ln	0	1805	1656	1810	1805	0				1810	1900	1610
Q Serve(g_s), s	0.0	3.2	3.3	1.1	1.5	0.0				0.3	0.4	0.3
Cycle Q Clear(g_c), s	0.0	3.2	3.3	1.1	1.5	0.0				0.3	0.4	0.3
Prop In Lane	0.00		0.82	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	477	438	143	1816	0				321	337	286
V/C Ratio(X)	0.00	0.50	0.52	0.53	0.19	0.00				0.07	0.09	0.07
Avail Cap(c_a), veh/h	0	1250	1146	418	3909	0				1317	1383	1172
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	8.8	8.8	12.5	3.8	0.0				9.7	9.7	9.6
Incr Delay (d2), s/veh	0.0	0.8	1.0	3.0	0.1	0.0				0.1	0.1	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.7	0.7	0.4	0.0	0.0				0.1	0.1	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.6	9.8	15.5	3.9	0.0				9.8	9.8	9.7
LnGrp LOS		A	A	B	A					A	A	A
Approach Vol, veh/h		466			422						73	
Approach Delay, s/veh		9.7			6.0						9.8	
Approach LOS		A			A						A	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		6.7	11.9		9.5		18.7					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		3.1	5.3		2.4		3.5					
Green Ext Time (p_c), s		0.0	2.2		0.2		1.9					

Intersection Summary	
HCM 7th Control Delay, s/veh	8.1
HCM 7th LOS	A

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	273	0	0	291	50	91	0	91	0	0	0
Future Volume (veh/h)	21	273	0	0	291	50	91	0	91	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	0	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	22	287	0	0	306	53	96	0	96			
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	51	1525	0	0	752	335	373	0	332			
Arrive On Green	0.03	0.42	0.00	0.00	0.21	0.21	0.21	0.00	0.21			
Sat Flow, veh/h	1810	3705	0	0	3705	1610	1810	0	1610			
Grp Volume(v), veh/h	22	287	0	0	306	53	96	0	96			
Grp Sat Flow(s),veh/h/ln	1810	1805	0	0	1805	1610	1810	0	1610			
Q Serve(g_s), s	0.3	1.2	0.0	0.0	1.8	0.7	1.1	0.0	1.2			
Cycle Q Clear(g_c), s	0.3	1.2	0.0	0.0	1.8	0.7	1.1	0.0	1.2			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	51	1525	0	0	752	335	373	0	332			
V/C Ratio(X)	0.43	0.19	0.00	0.00	0.41	0.16	0.26	0.00	0.29			
Avail Cap(c_a), veh/h	1120	5139	0	0	2234	997	1232	0	1096			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	11.6	4.4	0.0	0.0	8.3	7.9	8.1	0.0	8.1			
Incr Delay (d2), s/veh	5.5	0.1	0.0	0.0	0.4	0.2	0.4	0.0	0.5			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.0	0.0	0.3	0.1	0.2	0.0	0.2			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	17.1	4.5	0.0	0.0	8.7	8.1	8.4	0.0	8.6			
LnGrp LOS	B	A			A	A	A		A			
Approach Vol, veh/h		309			359			192				
Approach Delay, s/veh		5.4			8.6			8.5				
Approach LOS		A			A			A				

Timer - Assigned Phs	2	4		7	8
Phs Duration (G+Y+Rc), s	9.5	14.7		5.2	9.5
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5		15.0	15.0
Max Q Clear Time (g_c+I1), s	3.2	3.2		2.3	3.8
Green Ext Time (p_c), s	0.5	1.6		0.0	1.3

Intersection Summary	
HCM 7th Control Delay, s/veh	7.4
HCM 7th LOS	A

Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	61	47	15	50	57	36
Future Vol, veh/h	61	47	15	50	57	36
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	64	49	16	53	60	38
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7.6	8	8.1
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	57	36	61	47	15	50
LT Vol	57	0	0	0	15	0
Through Vol	0	0	61	0	0	50
RT Vol	0	36	0	47	0	0
Lane Flow Rate	60	38	64	49	16	53
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.09	0.044	0.086	0.056	0.023	0.071
Departure Headway (Hd)	5.427	4.224	4.811	4.109	5.343	4.842
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	663	851	748	875	673	743
Service Time	3.136	1.933	2.518	1.816	3.051	2.55
HCM Lane V/C Ratio	0.09	0.045	0.086	0.056	0.024	0.071
HCM Control Delay, s/veh	8.7	7.1	8	7.1	8.2	7.9
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.3	0.1	0.3	0.2	0.1	0.2

Intersection	
Intersection Delay, s/veh	8
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	11	14	49	0	0	0	0	93	24	19	53	0
Future Vol, veh/h	11	14	49	0	0	0	0	93	24	19	53	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	12	15	52	0	0	0	0	98	25	20	56	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7.5	8.3	8.2
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	100%	0%	0%	100%	0%
Vol Thru, %	79%	0%	100%	0%	0%	100%
Vol Right, %	21%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	117	11	14	49	19	53
LT Vol	0	11	0	0	19	0
Through Vol	93	0	14	0	0	53
RT Vol	24	0	0	49	0	0
Lane Flow Rate	123	12	15	52	20	56
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.161	0.018	0.02	0.061	0.03	0.077
Departure Headway (Hd)	4.714	5.495	4.994	4.292	5.442	4.941
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	764	654	719	838	660	727
Service Time	2.423	3.206	2.705	2.003	3.154	2.653
HCM Lane V/C Ratio	0.161	0.018	0.021	0.062	0.03	0.077
HCM Control Delay, s/veh	8.3	8.3	7.8	7.3	8.3	8.1
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.6	0.1	0.1	0.2	0.1	0.2

Intersection	
Int Delay, s/veh	7.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	43	71	4	18	96	19	8	50	38	22	43	30
Future Vol, veh/h	43	71	4	18	96	19	8	50	38	22	43	30
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	45	75	4	19	101	20	8	53	40	23	45	32

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	227	217	61	218	213	73	77	0	0	93	0	0
Stage 1	107	107	-	89	89	-	-	-	-	-	-	-
Stage 2	120	109	-	129	123	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	732	685	1010	742	688	995	1535	-	-	1515	-	-
Stage 1	903	810	-	923	825	-	-	-	-	-	-	-
Stage 2	889	809	-	880	798	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	599	670	1010	645	674	995	1535	-	-	1515	-	-
Mov Cap-2 Maneuver	599	670	-	645	674	-	-	-	-	-	-	-
Stage 1	889	798	-	918	820	-	-	-	-	-	-	-
Stage 2	760	804	-	782	786	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	11.85	11.4	0.61	1.72
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1535	-	-	650	702	1515	-	-
HCM Lane V/C Ratio	0.005	-	-	0.191	0.199	0.015	-	-
HCM Ctrl Dly (s/v)	7.4	-	-	11.8	11.4	7.4	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.7	0.7	0	-	-

Intersection	
Int Delay, s/veh	3.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	121	0	4	0	149	126	12	107	0
Future Vol, veh/h	0	0	0	121	0	4	0	149	126	12	107	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	127	0	4	0	157	133	13	113	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	295	427	113	361	361	223	113	0	0	289	0	0
Stage 1	138	138	-	223	223	-	-	-	-	-	-	-
Stage 2	157	289	-	138	138	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	661	523	946	598	569	821	1489	-	-	1284	-	-
Stage 1	870	786	-	784	723	-	-	-	-	-	-	-
Stage 2	850	676	-	870	786	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	652	517	946	592	564	821	1489	-	-	1284	-	-
Mov Cap-2 Maneuver	652	517	-	592	564	-	-	-	-	-	-	-
Stage 1	861	779	-	784	723	-	-	-	-	-	-	-
Stage 2	846	676	-	861	779	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0	12.71	0	0.79
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1489	-	-	-	598	1284	-	-
HCM Lane V/C Ratio	-	-	-	-	0.22	0.01	-	-
HCM Ctrl Dly (s/v)	0	-	-	0	12.7	7.8	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	0.8	0	-	-

Intersection	
Int Delay, s/veh	101.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	133	78	419	29	27	72	159	134	28	47	125	42
Future Vol, veh/h	133	78	419	29	27	72	159	134	28	47	125	42
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	200	-	0	115	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	140	82	441	31	28	76	167	141	29	49	132	44

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	743	758	154	747	751	141	176	0	0	171	0	0
Stage 1	253	253	-	476	476	-	-	-	-	-	-	-
Stage 2	490	505	-	272	275	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	334	339	898	331	342	912	1413	-	-	1419	-	-
Stage 1	756	702	-	574	560	-	-	-	-	-	-	-
Stage 2	564	544	-	739	686	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	238	288	898	107	291	912	1413	-	-	1419	-	-
Mov Cap-2 Maneuver	238	288	-	107	291	-	-	-	-	-	-	-
Stage 1	730	677	-	506	494	-	-	-	-	-	-	-
Stage 2	429	479	-	319	662	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	200.04	27.84	3.91	1.68
HCM LOS	F	D		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1413	-	-	486	289	1419	-	-
HCM Lane V/C Ratio	0.118	-	-	1.363	0.466	0.035	-	-
HCM Ctrl Dly (s/v)	7.9	-	-	200	27.8	7.6	-	-
HCM Lane LOS	A	-	-	F	D	A	-	-
HCM 95th %tile Q(veh)	0.4	-	-	30.3	2.3	0.1	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	76	135	457	60	226	115	616	181	80	113	373	124
Future Volume (veh/h)	76	135	457	60	226	115	616	181	80	113	373	124
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	80	142	0	63	238	0	648	191	84	119	393	131
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	124	513		108	480		248	822	348	157	537	455
Arrive On Green	0.07	0.14	0.00	0.06	0.13	0.00	0.14	0.33	0.33	0.09	0.28	0.28
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	2471	1046	1810	1900	1610
Grp Volume(v), veh/h	80	142	0	63	238	0	648	138	137	119	393	131
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1712	1810	1900	1610
Q Serve(g_s), s	2.0	1.7	0.0	1.6	2.9	0.0	6.5	2.6	2.8	3.1	8.9	3.0
Cycle Q Clear(g_c), s	2.0	1.7	0.0	1.6	2.9	0.0	6.5	2.6	2.8	3.1	8.9	3.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.61	1.00		1.00
Lane Grp Cap(c), veh/h	124	513		108	480		248	600	569	157	537	455
V/C Ratio(X)	0.64	0.28		0.59	0.50		2.62	0.23	0.24	0.76	0.73	0.29
Avail Cap(c_a), veh/h	248	2623		476	3080		248	1578	1496	515	1941	1645
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.5	18.2	0.0	21.8	19.1	0.0	20.5	11.4	11.5	21.2	15.4	13.3
Incr Delay (d2), s/veh	5.5	0.3	0.0	5.0	0.8	0.0	738.6	0.2	0.2	7.3	2.0	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	0.6	0.0	0.7	1.1	0.0	53.0	0.8	0.8	1.3	3.0	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	27.0	18.5	0.0	26.7	19.9	0.0	759.1	11.6	11.7	28.5	17.4	13.6
LnGrp LOS	C	B		C	B		F	B	B	C	B	B
Approach Vol, veh/h		222			301			923			643	
Approach Delay, s/veh		21.6			21.3			536.4			18.7	
Approach LOS		C			C			F			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.6	20.3	7.3	11.2	11.0	17.9	7.8	10.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	5.1	4.8	3.6	3.7	8.5	10.9	4.0	4.9
Green Ext Time (p_c), s	0.2	1.4	0.1	0.7	0.0	2.5	0.0	1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	248.1
HCM 7th LOS	F

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	0.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	15	3	4	799	749	31
Future Vol, veh/h	15	3	4	799	749	31
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	25	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	16	3	4	841	788	33

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1654	805	821	0	-	0
Stage 1	805	-	-	-	-	-
Stage 2	849	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	109	386	817	-	-	-
Stage 1	443	-	-	-	-	-
Stage 2	423	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	108	386	817	-	-	-
Mov Cap-2 Maneuver	108	-	-	-	-	-
Stage 1	439	-	-	-	-	-
Stage 2	423	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	38.96	0.05	0
HCM LOS	E		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	9	-	108	386	-	-
HCM Lane V/C Ratio	0.005	-	0.146	0.008	-	-
HCM Ctrl Dly (s/v)	9.4	0	43.9	14.4	-	-
HCM Lane LOS	A	A	E	B	-	-
HCM 95th %tile Q(veh)	0	-	0.5	0	-	-

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	26	0	36	25	0	3	51	775	10	2	733	22
Future Vol, veh/h	26	0	36	25	0	3	51	775	10	2	733	22
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	25	-	-	25	0	-	-	0	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	27	0	38	26	0	3	54	816	11	2	772	23

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1303	1721	397	1318	1727	413	795	0	0	826	0	0
Stage 1	787	787	-	928	928	-	-	-	-	-	-	-
Stage 2	515	934	-	390	799	-	-	-	-	-	-	-
Critical Hdwy	7.5	6.5	6.9	7.5	6.5	6.9	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.5	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	120	90	608	117	89	594	836	-	-	813	-	-
Stage 1	355	406	-	292	349	-	-	-	-	-	-	-
Stage 2	516	347	-	611	401	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	112	84	608	102	84	594	836	-	-	813	-	-
Mov Cap-2 Maneuver	112	84	-	102	84	-	-	-	-	-	-	-
Stage 1	354	404	-	273	327	-	-	-	-	-	-	-
Stage 2	480	325	-	572	400	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	26.46	47.51	0.59	0.02
HCM LOS	D	E		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	836	-	-	112	608	102	594	813	-	-
HCM Lane V/C Ratio	0.064	-	-	0.245	0.062	0.257	0.005	0.003	-	-
HCM Ctrl Dly (s/v)	9.6	-	-	47.4	11.3	51.9	11.1	9.4	-	-
HCM Lane LOS	A	-	-	E	B	F	B	A	-	-
HCM 95th %tile Q(veh)	0.2	-	-	0.9	0.2	0.9	0	0	-	-

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	43	90	92	705	717	81
Future Vol, veh/h	43	90	92	705	717	81
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	45	95	97	742	755	85

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1362	420	840	0	-	0
Stage 1	797	-	-	-	-	-
Stage 2	565	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	142	588	804	-	-	-
Stage 1	409	-	-	-	-	-
Stage 2	538	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	125	588	804	-	-	-
Mov Cap-2 Maneuver	251	-	-	-	-	-
Stage 1	360	-	-	-	-	-
Stage 2	538	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	15.6	1.16	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	804	-	251	588	-	-
HCM Lane V/C Ratio	0.12	-	0.181	0.161	-	-
HCM Ctrl Dly (s/v)	10.1	-	22.5	12.3	-	-
HCM Lane LOS	B	-	C	B	-	-
HCM 95th %tile Q(veh)	0.4	-	0.6	0.6	-	-

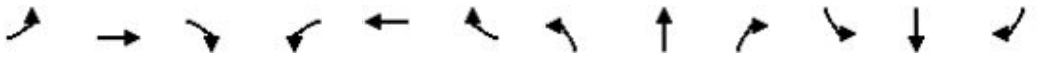
Intersection	
Int Delay, s/veh	2.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	11	807	18	160	823	34	10	0	82	8	0	10
Future Vol, veh/h	11	807	18	160	823	34	10	0	82	8	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	0	-	-	-	-	25	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	12	849	19	168	866	36	11	0	86	8	0	11

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	902	0	0	868	0	0	1652	2121	434	1669	2113	451
Stage 1	-	-	-	-	-	-	882	882	-	1221	1221	-
Stage 2	-	-	-	-	-	-	770	1239	-	448	892	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	762	-	-	784	-	-	66	51	575	64	52	561
Stage 1	-	-	-	-	-	-	312	367	-	194	255	-
Stage 2	-	-	-	-	-	-	364	250	-	565	363	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	762	-	-	784	-	-	50	39	575	42	40	561
Mov Cap-2 Maneuver	-	-	-	-	-	-	50	39	-	42	40	-
Stage 1	-	-	-	-	-	-	307	361	-	152	200	-
Stage 2	-	-	-	-	-	-	280	196	-	473	358	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0.13	1.71	21.32	57.65
HCM LOS			C	F

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	50	575	762	-	-	784	-	-	87
HCM Lane V/C Ratio	0.21	0.15	0.015	-	-	0.215	-	-	0.218
HCM Ctrl Dly (s/v)	94.8	12.4	9.8	-	-	10.8	-	-	57.7
HCM Lane LOS	F	B	A	-	-	B	-	-	F
HCM 95th %tile Q(veh)	0.7	0.5	0	-	-	0.8	-	-	0.8



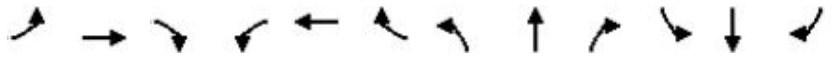
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	13	960	15	108	920	180	14	1	134	245	4	13
Future Volume (veh/h)	13	960	15	108	920	180	14	1	134	245	4	13
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	14	1011	16	114	968	189	15	1	141	261	0	14
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	31	1368	22	149	1922	374	225	236	200	425	0	189
Arrive On Green	0.02	0.38	0.38	0.08	0.44	0.44	0.12	0.12	0.12	0.12	0.00	0.12
Sat Flow, veh/h	1810	3637	58	1810	4355	848	1810	1900	1610	3619	0	1610
Grp Volume(v), veh/h	14	502	525	114	768	389	15	1	141	261	0	14
Grp Sat Flow(s),veh/h/ln	1810	1805	1890	1810	1729	1745	1810	1900	1610	1810	0	1610
Q Serve(g_s), s	0.5	14.4	14.4	3.7	9.6	9.6	0.4	0.0	5.0	4.1	0.0	0.5
Cycle Q Clear(g_c), s	0.5	14.4	14.4	3.7	9.6	9.6	0.4	0.0	5.0	4.1	0.0	0.5
Prop In Lane	1.00		0.03	1.00		0.49	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	31	679	711	149	1526	770	225	236	200	425	0	189
V/C Ratio(X)	0.45	0.74	0.74	0.76	0.50	0.50	0.07	0.00	0.71	0.61	0.00	0.07
Avail Cap(c_a), veh/h	316	1037	1085	377	2101	1060	708	743	630	1898	0	844
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	29.2	16.2	16.2	27.0	12.0	12.1	23.2	23.1	25.3	25.2	0.0	23.6
Incr Delay (d2), s/veh	9.6	1.6	1.5	7.8	0.3	0.5	0.1	0.0	4.5	1.4	0.0	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	5.2	5.4	1.8	3.0	3.1	0.2	0.0	2.0	1.8	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	38.8	17.8	17.7	34.8	12.3	12.6	23.4	23.1	29.8	26.7	0.0	23.8
LnGrp LOS	D	B	B	C	B	B	C	C	C	C		C
Approach Vol, veh/h		1041			1271			157			275	
Approach Delay, s/veh		18.0			14.4			29.1			26.5	
Approach LOS		B			B			C			C	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		12.0	9.5	27.1		11.6	5.5	31.0				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		23.5	12.5	34.5		31.5	10.5	36.5				
Max Q Clear Time (g_c+I1), s		7.0	5.7	16.4		6.1	2.5	11.6				
Green Ext Time (p_c), s		0.4	0.1	6.0		0.9	0.0	8.2				

Intersection Summary	
HCM 7th Control Delay, s/veh	17.8
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.



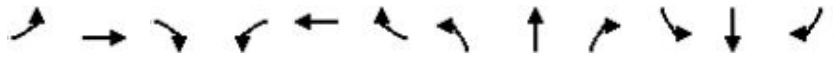
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑	↱		↑↑	↱				↰↰		↱
Traffic Volume (veh/h)	0	862	477	0	658	0	0	0	0	588	0	589
Future Volume (veh/h)	0	862	477	0	658	0	0	0	0	588	0	589
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	907	0	0	693	0				619	0	620
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1304		0	1304					1574	0	722
Arrive On Green	0.00	0.36	0.00	0.00	0.36	0.00				0.45	0.00	0.45
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	907	0	0	693	0				619	0	620
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	10.1	0.0	0.0	7.2	0.0				5.6	0.0	16.3
Cycle Q Clear(g_c), s	0.0	10.1	0.0	0.0	7.2	0.0				5.6	0.0	16.3
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1304		0	1304					1574	0	722
V/C Ratio(X)	0.00	0.70		0.00	0.53					0.39	0.00	0.86
Avail Cap(c_a), veh/h	0	1946		0	1946					1892	0	868
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	12.9	0.0	0.0	11.9	0.0				8.7	0.0	11.7
Incr Delay (d2), s/veh	0.0	0.7	0.0	0.0	0.3	0.0				0.2	0.0	7.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	3.2	0.0	0.0	2.2	0.0				1.2	0.0	4.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	13.6	0.0	0.0	12.3	0.0				8.9	0.0	19.2
LnGrp LOS		B			B					A		B
Approach Vol, veh/h		907			693						1239	
Approach Delay, s/veh		13.6			12.3						14.0	
Approach LOS		B			B						B	

Timer - Assigned Phs		4		6		8			
Phs Duration (G+Y+Rc), s		21.6		25.7		21.6			
Change Period (Y+Rc), s		4.5		4.5		4.5			
Max Green Setting (Gmax), s		25.5		25.5		25.5			
Max Q Clear Time (g_c+I1), s		12.1		18.3		9.2			
Green Ext Time (p_c), s		5.0		2.9		4.0			

Intersection Summary	
HCM 7th Control Delay, s/veh	13.5
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	297	861	101	0	1236	149	346	124	297	54	0	427
Future Volume (veh/h)	297	861	101	0	1236	149	346	124	297	54	0	427
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	313	906	0	0	1301	157	248	294	313	57	0	449
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	448	2954		0	1751	211	531	558	946	0	0	0
Arrive On Green	0.13	0.57	0.00	0.00	0.37	0.37	0.29	0.29	0.29	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	4861	566	1810	1900	3220		0	
Grp Volume(v), veh/h	313	906	0	0	959	499	248	294	313		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1798	1810	1900	1610			
Q Serve(g_s), s	5.6	6.0	0.0	0.0	15.8	15.8	7.4	8.5	5.0			
Cycle Q Clear(g_c), s	5.6	6.0	0.0	0.0	15.8	15.8	7.4	8.5	5.0			
Prop In Lane	1.00		1.00	0.00		0.31	1.00		1.00			
Lane Grp Cap(c), veh/h	448	2954		0	1291	671	531	558	946			
V/C Ratio(X)	0.70	0.31		0.00	0.74	0.74	0.47	0.53	0.33			
Avail Cap(c_a), veh/h	961	4064		0	1526	793	531	558	946			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	27.5	7.4	0.0	0.0	17.9	17.9	19.0	19.4	18.2			
Incr Delay (d2), s/veh	2.0	0.1	0.0	0.0	1.7	3.2	2.9	3.5	0.9			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	2.3	1.7	0.0	0.0	5.7	6.2	3.0	3.6	1.7			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	29.4	7.4	0.0	0.0	19.5	21.0	21.9	22.9	19.1			
LnGrp LOS	C	A			B	C	C	C	B			
Approach Vol, veh/h		1219			1458			855				
Approach Delay, s/veh		13.1			20.0			21.2				
Approach LOS		B			C			C				

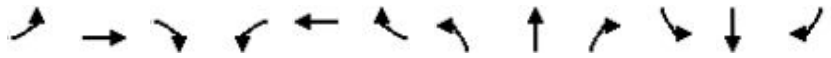
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	41.9	12.9	29.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	10.5	8.0	7.6	17.8
Green Ext Time (p_c), s	2.4	7.1	0.8	6.7

Intersection Summary	
HCM 7th Control Delay, s/veh	17.9
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

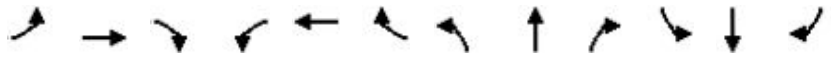


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	383	131	54	617	0	0	0	0	41	23	20
Future Volume (veh/h)	0	383	131	54	617	0	0	0	0	41	23	20
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	403	138	57	649	0				34	37	21
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	761	258	115	1837	0				317	333	282
Arrive On Green	0.00	0.29	0.29	0.06	0.51	0.00				0.18	0.18	0.18
Sat Flow, veh/h	0	2742	896	1810	3705	0				1810	1900	1610
Grp Volume(v), veh/h	0	273	268	57	649	0				34	37	21
Grp Sat Flow(s),veh/h/ln	0	1805	1739	1810	1805	0				1810	1900	1610
Q Serve(g_s), s	0.0	3.6	3.7	0.9	3.1	0.0				0.5	0.5	0.3
Cycle Q Clear(g_c), s	0.0	3.6	3.7	0.9	3.1	0.0				0.5	0.5	0.3
Prop In Lane	0.00		0.52	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	519	500	115	1837	0				317	333	282
V/C Ratio(X)	0.00	0.53	0.54	0.49	0.35	0.00				0.11	0.11	0.07
Avail Cap(c_a), veh/h	0	1235	1189	413	3862	0				1301	1366	1158
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	8.5	8.6	12.9	4.2	0.0				9.9	9.9	9.8
Incr Delay (d2), s/veh	0.0	0.8	0.9	3.3	0.1	0.0				0.1	0.1	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.8	0.8	0.3	0.0	0.0				0.1	0.1	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.4	9.5	16.2	4.3	0.0				10.0	10.0	9.9
LnGrp LOS		A	A	B	A					B	B	A
Approach Vol, veh/h		541			706						92	
Approach Delay, s/veh		9.4			5.3						10.0	
Approach LOS		A			A						B	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		6.3	12.7		9.5		19.0					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		2.9	5.7		2.5		5.1					
Green Ext Time (p_c), s		0.0	2.5		0.2		3.9					

Intersection Summary	
HCM 7th Control Delay, s/veh	7.3
HCM 7th LOS	A

Notes
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	399	0	0	460	79	191	0	144	0	0	0
Future Volume (veh/h)	21	399	0	0	460	79	191	0	144	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	0	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	22	420	0	0	484	83	201	0	152			
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	51	1652	0	0	956	426	385	0	342			
Arrive On Green	0.03	0.46	0.00	0.00	0.26	0.26	0.21	0.00	0.21			
Sat Flow, veh/h	1810	3705	0	0	3705	1610	1810	0	1610			
Grp Volume(v), veh/h	22	420	0	0	484	83	201	0	152			
Grp Sat Flow(s),veh/h/ln	1810	1805	0	0	1805	1610	1810	0	1610			
Q Serve(g_s), s	0.3	1.9	0.0	0.0	3.1	1.1	2.7	0.0	2.2			
Cycle Q Clear(g_c), s	0.3	1.9	0.0	0.0	3.1	1.1	2.7	0.0	2.2			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	51	1652	0	0	956	426	385	0	342			
V/C Ratio(X)	0.43	0.25	0.00	0.00	0.51	0.19	0.52	0.00	0.44			
Avail Cap(c_a), veh/h	994	4563	0	0	1984	885	1094	0	973			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	13.0	4.5	0.0	0.0	8.5	7.8	9.5	0.0	9.3			
Incr Delay (d2), s/veh	5.7	0.1	0.0	0.0	0.4	0.2	1.1	0.0	0.9			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	0.0	0.5	0.2	0.6	0.0	0.4			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	18.7	4.6	0.0	0.0	8.9	8.0	10.6	0.0	10.2			
LnGrp LOS	B	A			A	A	B		B			
Approach Vol, veh/h		442			567			353				
Approach Delay, s/veh		5.3			8.8			10.5				
Approach LOS		A			A			B				

Timer - Assigned Phs	2	4		7	8
Phs Duration (G+Y+Rc), s	10.3	17.0		5.3	11.7
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5		15.0	15.0
Max Q Clear Time (g_c+I1), s	4.7	3.9		2.3	5.1
Green Ext Time (p_c), s	1.1	2.4		0.0	2.1

Intersection Summary	
HCM 7th Control Delay, s/veh	8.1
HCM 7th LOS	A

Intersection	
Intersection Delay, s/veh	7.4
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	22	47	8	25	28	54
Future Vol, veh/h	22	47	8	25	28	54
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	23	49	8	26	29	57
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7.2	7.7	7.4
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	28	54	22	47	8	25
LT Vol	28	0	0	0	8	0
Through Vol	0	0	22	0	0	25
RT Vol	0	54	0	47	0	0
Lane Flow Rate	29	57	23	49	8	26
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.042	0.063	0.03	0.055	0.012	0.034
Departure Headway (Hd)	5.179	3.978	4.668	3.967	5.189	4.688
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	687	891	761	894	685	757
Service Time	2.945	1.744	2.432	1.73	2.957	2.456
HCM Lane V/C Ratio	0.042	0.064	0.03	0.055	0.012	0.034
HCM Control Delay, s/veh	8.2	7	7.6	7	8	7.6
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.1	0.2	0.1	0.2	0	0.1

Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	11	0	84	0	0	0	0	72	28	25	43	0
Future Vol, veh/h	11	0	84	0	0	0	0	72	28	25	43	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	12	0	88	0	0	0	0	76	29	26	45	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7.5	8.2	8.1
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	100%	0%	0%	100%	0%
Vol Thru, %	72%	0%	100%	0%	0%	100%
Vol Right, %	28%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	100	11	0	84	25	43
LT Vol	0	11	0	0	25	0
Through Vol	72	0	0	0	0	43
RT Vol	28	0	0	84	0	0
Lane Flow Rate	105	12	0	88	26	45
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.138	0.018	0	0.104	0.04	0.062
Departure Headway (Hd)	4.708	5.443	4.941	4.239	5.46	4.959
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	764	660	0	848	658	725
Service Time	2.42	3.154	2.652	1.95	3.175	2.673
HCM Lane V/C Ratio	0.137	0.018	0	0.104	0.04	0.062
HCM Control Delay, s/veh	8.2	8.3	7.7	7.4	8.4	8
HCM Lane LOS	A	A	N	A	A	A
HCM 95th-tile Q	0.5	0.1	0	0.3	0.1	0.2

Intersection	
Int Delay, s/veh	5.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	18	45	8	42	42	16	3	52	18	20	90	17
Future Vol, veh/h	18	45	8	42	42	16	3	52	18	20	90	17
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	19	47	8	44	44	17	3	55	19	21	95	18

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	229	226	104	231	225	64	113	0	0	74	0	0
Stage 1	146	146	-	71	71	-	-	-	-	-	-	-
Stage 2	83	80	-	161	155	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	730	677	957	728	677	1006	1489	-	-	1539	-	-
Stage 1	862	780	-	944	840	-	-	-	-	-	-	-
Stage 2	930	832	-	846	773	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	661	666	957	661	667	1006	1489	-	-	1539	-	-
Mov Cap-2 Maneuver	661	666	-	661	667	-	-	-	-	-	-	-
Stage 1	850	770	-	942	838	-	-	-	-	-	-	-
Stage 2	864	831	-	776	763	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.87	11.03	0.31	1.16
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1489	-	-	688	702	1539	-	-
HCM Lane V/C Ratio	0.002	-	-	0.109	0.15	0.014	-	-
HCM Ctrl Dly (s/v)	7.4	-	-	10.9	11	7.4	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.4	0.5	0	-	-

Intersection	
Int Delay, s/veh	2.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	3	92	0	0	2	72	76	0	147	0
Future Vol, veh/h	0	0	3	92	0	0	2	72	76	0	147	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	3	97	0	0	2	76	80	0	155	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	235	315	155	275	275	116	155	0	0	156	0	0
Stage 1	155	155	-	120	120	-	-	-	-	-	-	-
Stage 2	80	160	-	155	155	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	724	604	896	682	636	942	1438	-	-	1437	-	-
Stage 1	852	773	-	889	800	-	-	-	-	-	-	-
Stage 2	934	769	-	852	773	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	723	603	896	678	635	942	1438	-	-	1437	-	-
Mov Cap-2 Maneuver	723	603	-	678	635	-	-	-	-	-	-	-
Stage 1	852	773	-	888	799	-	-	-	-	-	-	-
Stage 2	932	768	-	849	773	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.03	11.19	0.1	0
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	22	-	-	896	678	1437	-	-
HCM Lane V/C Ratio	0.001	-	-	0.004	0.143	-	-	-
HCM Ctrl Dly (s/v)	7.5	0	-	9	11.2	0	-	-
HCM Lane LOS	A	A	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.5	0	-	-

Intersection	
Int Delay, s/veh	55.1

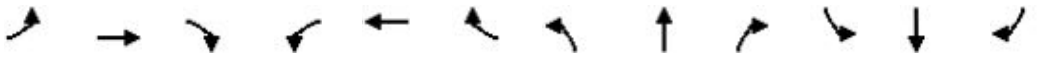
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	15	13	87	30	61	71	346	455	13	24	301	94
Future Vol, veh/h	15	13	87	30	61	71	346	455	13	24	301	94
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	200	-	0	115	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	16	14	92	32	64	75	364	479	14	25	317	99

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1656	1638	366	1582	1674	479	416	0	0	493	0	0
Stage 1	417	417	-	1207	1207	-	-	-	-	-	-	-
Stage 2	1239	1221	-	374	466	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	79	102	683	89	97	591	1154	-	-	1081	-	-
Stage 1	617	595	-	226	258	-	-	-	-	-	-	-
Stage 2	217	255	-	651	566	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 0	68	683	44	65	591	1154	-	-	1081	-	-
Mov Cap-2 Maneuver	~ 0	68	-	44	65	-	-	-	-	-	-	-
Stage 1	603	581	-	155	177	-	-	-	-	-	-	-
Stage 2	83	174	-	537	552	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v		$ 492.26	4.06	0.48
HCM LOS	-	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1154	-	-	-	93	1081	-	-
HCM Lane V/C Ratio	0.316	-	-	-	1.838	0.023	-	-
HCM Ctrl Dly (s/v)	9.6	-	-	-	$ 492.3	8.4	-	-
HCM Lane LOS	A	-	-	-	F	A	-	-
HCM 95th %tile Q(veh)	1.4	-	-	-	14.2	0.1	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	114	176	456	40	117	269	350	461	40	158	212	91
Future Volume (veh/h)	114	176	456	40	117	269	350	461	40	158	212	91
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	120	185	0	42	123	0	368	485	42	166	223	96
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	162	579		83	422		280	820	71	220	400	339
Arrive On Green	0.09	0.16	0.00	0.05	0.12	0.00	0.15	0.24	0.24	0.12	0.21	0.21
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	3362	290	1810	1900	1610
Grp Volume(v), veh/h	120	185	0	42	123	0	368	260	267	166	223	96
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1848	1810	1900	1610
Q Serve(g_s), s	2.7	1.9	0.0	1.0	1.3	0.0	6.5	5.3	5.4	3.7	4.4	2.1
Cycle Q Clear(g_c), s	2.7	1.9	0.0	1.0	1.3	0.0	6.5	5.3	5.4	3.7	4.4	2.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.16	1.00		1.00
Lane Grp Cap(c), veh/h	162	579		83	422		280	440	450	220	400	339
V/C Ratio(X)	0.74	0.32		0.50	0.29		1.32	0.59	0.59	0.76	0.56	0.28
Avail Cap(c_a), veh/h	280	2963		538	3479		280	1782	1824	581	2192	1858
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	18.7	15.6	0.0	19.6	17.0	0.0	17.8	14.0	14.1	17.9	14.8	13.9
Incr Delay (d2), s/veh	6.5	0.3	0.0	4.6	0.4	0.0	164.9	1.3	1.3	5.2	1.2	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.6	0.0	0.4	0.5	0.0	14.8	1.7	1.7	1.5	1.4	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	25.1	15.9	0.0	24.2	17.3	0.0	182.6	15.3	15.3	23.1	16.1	14.4
LnGrp LOS	C	B		C	B		F	B	B	C	B	B
Approach Vol, veh/h		305			165			895			485	
Approach Delay, s/veh		19.5			19.1			84.1			18.1	
Approach LOS		B			B			F			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.6	14.7	6.4	11.2	11.0	13.3	8.3	9.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	5.7	7.4	3.0	3.9	8.5	6.4	4.7	3.3
Green Ext Time (p_c), s	0.2	2.9	0.0	1.0	0.0	1.4	0.0	0.7

Intersection Summary	
HCM 7th Control Delay, s/veh	50.4
HCM 7th LOS	D

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	0.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	30	0	0	789	554	12
Future Vol, veh/h	30	0	0	789	554	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	25	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	32	0	0	831	583	13

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1420	589	596	0	-	0
Stage 1	589	-	-	-	-	-
Stage 2	831	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	152	512	991	-	-	-
Stage 1	558	-	-	-	-	-
Stage 2	431	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	152	512	991	-	-	-
Mov Cap-2 Maneuver	152	-	-	-	-	-
Stage 1	558	-	-	-	-	-
Stage 2	431	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	34.8	0	0
HCM LOS	D		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	991	-	152	-	-	-
HCM Lane V/C Ratio	-	-	0.208	-	-	-
HCM Ctrl Dly (s/v)	0	-	34.8	0	-	-
HCM Lane LOS	A	-	D	A	-	-
HCM 95th %tile Q(veh)	0	-	0.7	-	-	-

Intersection	
Int Delay, s/veh	1.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	16	1	42	2	0	0	51	796	20	9	519	35
Future Vol, veh/h	16	1	42	2	0	0	51	796	20	9	519	35
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	25	-	-	25	0	-	-	0	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	17	1	44	2	0	0	54	838	21	9	546	37

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1110	1550	292	1248	1558	429	583	0	0	859	0	0
Stage 1	584	584	-	956	956	-	-	-	-	-	-	-
Stage 2	526	966	-	293	602	-	-	-	-	-	-	-
Critical Hdwy	7.5	6.5	6.9	7.5	6.5	6.9	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.5	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	166	115	711	132	114	579	1001	-	-	791	-	-
Stage 1	470	501	-	281	339	-	-	-	-	-	-	-
Stage 2	508	335	-	697	492	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	156	107	711	115	106	579	1001	-	-	791	-	-
Mov Cap-2 Maneuver	156	107	-	115	106	-	-	-	-	-	-	-
Stage 1	464	495	-	266	321	-	-	-	-	-	-	-
Stage 2	481	317	-	644	486	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	16.59	37.03	0.52	0.15
HCM LOS	C	E		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1001	-	-	152	711	115	-	791	-	-
HCM Lane V/C Ratio	0.054	-	-	0.118	0.062	0.018	-	0.012	-	-
HCM Ctrl Dly (s/v)	8.8	-	-	31.9	10.4	37	0	9.6	-	-
HCM Lane LOS	A	-	-	D	B	E	A	A	-	-
HCM 95th %tile Q(veh)	0.2	-	-	0.4	0.2	0.1	-	0	-	-

Intersection	
Int Delay, s/veh	1.9

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	59	119	79	834	525	44
Future Vol, veh/h	59	119	79	834	525	44
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	62	125	83	878	553	46

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1181	299	599	0	-	0
Stage 1	576	-	-	-	-	-
Stage 2	605	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	186	703	988	-	-	-
Stage 1	531	-	-	-	-	-
Stage 2	513	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	170	703	988	-	-	-
Mov Cap-2 Maneuver	306	-	-	-	-	-
Stage 1	486	-	-	-	-	-
Stage 2	513	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	14.06	0.78	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	988	-	306	703	-	-
HCM Lane V/C Ratio	0.084	-	0.203	0.178	-	-
HCM Ctrl Dly (s/v)	9	-	19.8	11.2	-	-
HCM Lane LOS	A	-	C	B	-	-
HCM 95th %tile Q(veh)	0.3	-	0.7	0.6	-	-

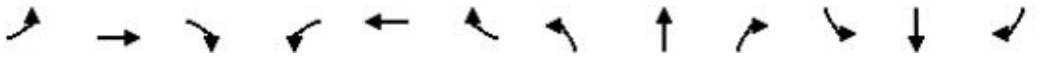
Intersection	
Int Delay, s/veh	2.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	635	11	90	827	31	8	0	139	25	0	9
Future Vol, veh/h	2	635	11	90	827	31	8	0	139	25	0	9
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	0	-	-	-	-	25	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	2	668	12	95	871	33	8	0	146	26	0	9

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	903	0	0	680	0	0	1303	1771	340	1415	1761	452
Stage 1	-	-	-	-	-	-	678	678	-	1076	1076	-
Stage 2	-	-	-	-	-	-	625	1093	-	338	684	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	761	-	-	922	-	-	120	84	662	99	85	561
Stage 1	-	-	-	-	-	-	413	455	-	238	298	-
Stage 2	-	-	-	-	-	-	444	293	-	655	452	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	761	-	-	922	-	-	106	75	662	69	76	561
Mov Cap-2 Maneuver	-	-	-	-	-	-	106	75	-	69	76	-
Stage 1	-	-	-	-	-	-	412	453	-	213	267	-
Stage 2	-	-	-	-	-	-	392	263	-	509	451	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0.03	0.89	13.61	69.07
HCM LOS			B	F

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	106	662	761	-	-	922	-	-	90
HCM Lane V/C Ratio	0.08	0.221	0.003	-	-	0.103	-	-	0.397
HCM Ctrl Dly (s/v)	42	12	9.7	-	-	9.4	-	-	69.1
HCM Lane LOS	E	B	A	-	-	A	-	-	F
HCM 95th %tile Q(veh)	0.3	0.8	0	-	-	0.3	-	-	1.6



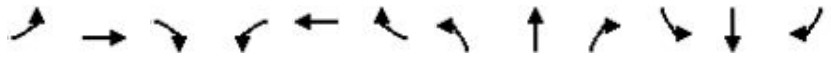
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	15	816	11	90	962	153	8	2	79	207	7	16
Future Volume (veh/h)	15	816	11	90	962	153	8	2	79	207	7	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	16	859	12	95	1013	161	8	2	83	223	0	17
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	36	1281	18	133	1827	290	181	190	161	414	0	184
Arrive On Green	0.02	0.35	0.35	0.07	0.40	0.40	0.10	0.10	0.10	0.11	0.00	0.11
Sat Flow, veh/h	1810	3645	51	1810	4512	716	1810	1900	1610	3619	0	1610
Grp Volume(v), veh/h	16	425	446	95	776	398	8	2	83	223	0	17
Grp Sat Flow(s),veh/h/ln	1810	1805	1891	1810	1729	1769	1810	1900	1610	1810	0	1610
Q Serve(g_s), s	0.4	10.0	10.0	2.6	8.6	8.6	0.2	0.0	2.4	2.9	0.0	0.5
Cycle Q Clear(g_c), s	0.4	10.0	10.0	2.6	8.6	8.6	0.2	0.0	2.4	2.9	0.0	0.5
Prop In Lane	1.00		0.03	1.00		0.40	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	36	635	665	133	1400	716	181	190	161	414	0	184
V/C Ratio(X)	0.44	0.67	0.67	0.72	0.55	0.56	0.04	0.01	0.51	0.54	0.00	0.09
Avail Cap(c_a), veh/h	381	1247	1307	453	2528	1293	852	894	758	2284	0	1016
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	24.2	13.7	13.7	22.6	11.4	11.4	20.3	20.2	21.3	20.9	0.0	19.8
Incr Delay (d2), s/veh	8.3	1.2	1.2	7.0	0.3	0.7	0.1	0.0	2.5	1.1	0.0	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	3.3	3.5	1.2	2.5	2.7	0.1	0.0	0.9	1.2	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	32.5	15.0	14.9	29.6	11.7	12.1	20.4	20.3	23.8	22.0	0.0	20.0
LnGrp LOS	C	B	B	C	B	B	C	C	C	C		B
Approach Vol, veh/h		887			1269			93			240	
Approach Delay, s/veh		15.3			13.2			23.5			21.8	
Approach LOS		B			B			C			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	9.5	8.2	22.0	10.2	5.5	24.7
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	23.5	12.5	34.5	31.5	10.5	36.5
Max Q Clear Time (g_c+I1), s	4.4	4.6	12.0	4.9	2.4	10.6
Green Ext Time (p_c), s	0.2	0.1	5.3	0.8	0.0	8.4

Intersection Summary	
HCM 7th Control Delay, s/veh	15.1
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.



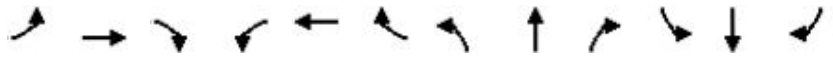
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	583	519	0	753	0	0	0	0	255	0	498
Future Volume (veh/h)	0	583	519	0	753	0	0	0	0	255	0	498
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	614	0	0	793	0				268	0	524
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1296		0	1296					1416	0	649
Arrive On Green	0.00	0.36	0.00	0.00	0.36	0.00				0.40	0.00	0.40
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	614	0	0	793	0				268	0	524
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	5.0	0.0	0.0	6.8	0.0				1.9	0.0	10.9
Cycle Q Clear(g_c), s	0.0	5.0	0.0	0.0	6.8	0.0				1.9	0.0	10.9
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1296		0	1296					1416	0	649
V/C Ratio(X)	0.00	0.47		0.00	0.61					0.19	0.00	0.81
Avail Cap(c_a), veh/h	0	2432		0	2432					2365	0	1085
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	9.4	0.0	0.0	10.0	0.0				7.3	0.0	10.0
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.0	0.5	0.0				0.1	0.0	2.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.3	0.0	0.0	1.8	0.0				0.3	0.0	2.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.6	0.0	0.0	10.4	0.0				7.4	0.0	12.4
LnGrp LOS		A			B					A		B
Approach Vol, veh/h		614			793						792	
Approach Delay, s/veh		9.6			10.4						10.7	
Approach LOS		A			B						B	

Timer - Assigned Phs		4		6		8
Phs Duration (G+Y+Rc), s		18.1		19.8		18.1
Change Period (Y+Rc), s		4.5		4.5		4.5
Max Green Setting (Gmax), s		25.5		25.5		25.5
Max Q Clear Time (g_c+I1), s		7.0		12.9		8.8
Green Ext Time (p_c), s		3.7		2.4		4.8

Intersection Summary	
HCM 7th Control Delay, s/veh	10.3
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	123	406	33	0	729	48	509	89	308	7	0	304
Future Volume (veh/h)	123	406	33	0	729	48	509	89	308	7	0	304
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	129	427	0	0	767	51	603	0	324	7	0	320
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	340	2346		0	1335	88	1352	0	1203	0	0	0
Arrive On Green	0.10	0.45	0.00	0.00	0.27	0.27	0.37	0.00	0.37	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	5141	329	3619	0	3220		0	
Grp Volume(v), veh/h	129	427	0	0	533	285	603	0	324		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1841	1810	0	1610			
Q Serve(g_s), s	1.8	2.5	0.0	0.0	6.9	6.9	6.5	0.0	3.6			
Cycle Q Clear(g_c), s	1.8	2.5	0.0	0.0	6.9	6.9	6.5	0.0	3.6			
Prop In Lane	1.00		1.00	0.00		0.18	1.00		1.00			
Lane Grp Cap(c), veh/h	340	2346		0	929	494	1352	0	1203			
V/C Ratio(X)	0.38	0.18		0.00	0.57	0.58	0.45	0.00	0.27			
Avail Cap(c_a), veh/h	1223	5169		0	1941	1033	1352	0	1203			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	21.9	8.4	0.0	0.0	16.3	16.4	12.2	0.0	11.3			
Incr Delay (d2), s/veh	0.7	0.0	0.0	0.0	0.6	1.1	1.1	0.0	0.6			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.7	0.7	0.0	0.0	2.3	2.6	2.0	0.0	1.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	22.6	8.5	0.0	0.0	16.9	17.4	13.2	0.0	11.8			
LnGrp LOS	C	A			B	B	B		B			
Approach Vol, veh/h		556			818			927				
Approach Delay, s/veh		11.8			17.1			12.7				
Approach LOS		B			B			B				

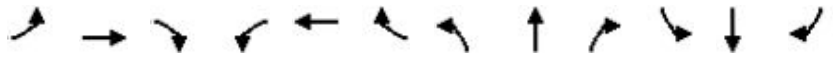
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	27.9	9.5	18.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	8.5	4.5	3.8	8.9
Green Ext Time (p_c), s	2.7	3.0	0.3	4.9

Intersection Summary	
HCM 7th Control Delay, s/veh	14.0
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

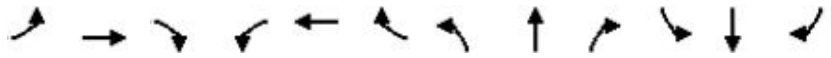


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	298	232	71	501	0	0	0	0	36	9	19
Future Volume (veh/h)	0	298	232	71	501	0	0	0	0	36	9	19
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	314	244	75	527	0				24	29	20
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	577	438	141	1897	0				307	322	273
Arrive On Green	0.00	0.30	0.30	0.08	0.53	0.00				0.17	0.17	0.17
Sat Flow, veh/h	0	2050	1483	1810	3705	0				1810	1900	1610
Grp Volume(v), veh/h	0	289	269	75	527	0				24	29	20
Grp Sat Flow(s),veh/h/ln	0	1805	1633	1810	1805	0				1810	1900	1610
Q Serve(g_s), s	0.0	4.0	4.1	1.2	2.4	0.0				0.3	0.4	0.3
Cycle Q Clear(g_c), s	0.0	4.0	4.1	1.2	2.4	0.0				0.3	0.4	0.3
Prop In Lane	0.00		0.91	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	533	482	141	1897	0				307	322	273
V/C Ratio(X)	0.00	0.54	0.56	0.53	0.28	0.00				0.08	0.09	0.07
Avail Cap(c_a), veh/h	0	1193	1079	399	3732	0				1257	1320	1119
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	8.7	8.8	13.1	3.9	0.0				10.3	10.3	10.3
Incr Delay (d2), s/veh	0.0	0.9	1.0	3.1	0.1	0.0				0.1	0.1	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.9	0.8	0.4	0.0	0.0				0.1	0.1	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.6	9.8	16.2	4.0	0.0				10.4	10.5	10.4
LnGrp LOS		A	A	B	A					B	B	B
Approach Vol, veh/h		558			602						73	
Approach Delay, s/veh		9.7			5.5						10.4	
Approach LOS		A			A						B	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		6.8	13.2		9.5		20.0					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		3.2	6.1		2.4		4.4					
Green Ext Time (p_c), s		0.0	2.6		0.2		3.1					

Intersection Summary	
HCM 7th Control Delay, s/veh	7.7
HCM 7th LOS	A

Notes
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	305	0	0	351	52	202	0	91	0	0	0
Future Volume (veh/h)	21	305	0	0	351	52	202	0	91	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	0	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	22	321	0	0	369	55	213	0	96			
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	51	1552	0	0	819	365	399	0	355			
Arrive On Green	0.03	0.43	0.00	0.00	0.23	0.23	0.22	0.00	0.22			
Sat Flow, veh/h	1810	3705	0	0	3705	1610	1810	0	1610			
Grp Volume(v), veh/h	22	321	0	0	369	55	213	0	96			
Grp Sat Flow(s),veh/h/ln	1810	1805	0	0	1805	1610	1810	0	1610			
Q Serve(g_s), s	0.3	1.4	0.0	0.0	2.3	0.7	2.7	0.0	1.3			
Cycle Q Clear(g_c), s	0.3	1.4	0.0	0.0	2.3	0.7	2.7	0.0	1.3			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	51	1552	0	0	819	365	399	0	355			
V/C Ratio(X)	0.43	0.21	0.00	0.00	0.45	0.15	0.53	0.00	0.27			
Avail Cap(c_a), veh/h	1054	4837	0	0	2103	938	1159	0	1032			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	12.3	4.6	0.0	0.0	8.6	8.0	8.9	0.0	8.3			
Incr Delay (d2), s/veh	5.6	0.1	0.0	0.0	0.4	0.2	1.1	0.0	0.4			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.0	0.0	0.4	0.1	0.5	0.0	0.2			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	17.9	4.7	0.0	0.0	9.0	8.2	10.0	0.0	8.7			
LnGrp LOS	B	A			A	A	A		A			
Approach Vol, veh/h		343			424			309				
Approach Delay, s/veh		5.5			8.9			9.6				
Approach LOS		A			A			A				

Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	10.2	15.6	5.2	10.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5	15.0	15.0
Max Q Clear Time (g_c+I1), s	4.7	3.4	2.3	4.3
Green Ext Time (p_c), s	1.0	1.8	0.0	1.6

Intersection Summary	
HCM 7th Control Delay, s/veh	8.0
HCM 7th LOS	A

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	6	0	150	29	3	287
Future Vol, veh/h	6	0	150	29	3	287
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	6	0	158	31	3	302

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	482	94	0	0	188	0
Stage 1	173	-	-	-	-	-
Stage 2	308	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	533	951	-	-	1398	-
Stage 1	846	-	-	-	-	-
Stage 2	750	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	532	951	-	-	1398	-
Mov Cap-2 Maneuver	602	-	-	-	-	-
Stage 1	846	-	-	-	-	-
Stage 2	748	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.04	0	0.08
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	602	1398	-
HCM Lane V/C Ratio	-	-	0.01	0.002	-
HCM Ctrl Dly (s/v)	-	-	11	7.6	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	4	1	178	15	3	290
Future Vol, veh/h	4	1	178	15	3	290
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	1	187	16	3	305

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	507	102	0	0	203	0
Stage 1	195	-	-	-	-	-
Stage 2	312	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	514	940	-	-	1381	-
Stage 1	824	-	-	-	-	-
Stage 2	747	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	513	940	-	-	1381	-
Mov Cap-2 Maneuver	590	-	-	-	-	-
Stage 1	824	-	-	-	-	-
Stage 2	745	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.7	0	0.08
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	637	1381	-
HCM Lane V/C Ratio	-	-	0.008	0.002	-
HCM Ctrl Dly (s/v)	-	-	10.7	7.6	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	13	0	193	52	5	289
Future Vol, veh/h	13	0	193	52	5	289
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	0	203	55	5	304

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	545	129	0	0	258	0
Stage 1	231	-	-	-	-	-
Stage 2	315	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	488	903	-	-	1319	-
Stage 1	792	-	-	-	-	-
Stage 2	745	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	486	903	-	-	1319	-
Mov Cap-2 Maneuver	571	-	-	-	-	-
Stage 1	792	-	-	-	-	-
Stage 2	742	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.46	0	0.13
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	571	1319	-
HCM Lane V/C Ratio	-	-	0.024	0.004	-
HCM Ctrl Dly (s/v)	-	-	11.5	7.7	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	4	1	244	15	3	299
Future Vol, veh/h	4	1	244	15	3	299
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	1	257	16	3	315

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	586	136	0	0	273	0
Stage 1	265	-	-	-	-	-
Stage 2	321	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	461	894	-	-	1302	-
Stage 1	762	-	-	-	-	-
Stage 2	740	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	460	894	-	-	1302	-
Mov Cap-2 Maneuver	552	-	-	-	-	-
Stage 1	762	-	-	-	-	-
Stage 2	738	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.08	0	0.08
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	598	1302	-
HCM Lane V/C Ratio	-	-	0.009	0.002	-
HCM Ctrl Dly (s/v)	-	-	11.1	7.8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	13	0	259	52	5	298
Future Vol, veh/h	13	0	259	52	5	298
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	0	273	55	5	314

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	624	164	0	0	327	0
Stage 1	300	-	-	-	-	-
Stage 2	324	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	437	858	-	-	1244	-
Stage 1	731	-	-	-	-	-
Stage 2	737	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	435	858	-	-	1244	-
Mov Cap-2 Maneuver	533	-	-	-	-	-
Stage 1	731	-	-	-	-	-
Stage 2	734	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.93	0	0.13
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	533	1244	-
HCM Lane V/C Ratio	-	-	0.026	0.004	-
HCM Ctrl Dly (s/v)	-	-	11.9	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	3	1	310	15	3	308
Future Vol, veh/h	3	1	310	15	3	308
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	3	1	326	16	3	324

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	665	171	0	0	342	0
Stage 1	334	-	-	-	-	-
Stage 2	331	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	413	849	-	-	1228	-
Stage 1	703	-	-	-	-	-
Stage 2	733	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	412	849	-	-	1228	-
Mov Cap-2 Maneuver	515	-	-	-	-	-
Stage 1	703	-	-	-	-	-
Stage 2	731	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.35	0	0.08
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	571	1228	-
HCM Lane V/C Ratio	-	-	0.007	0.003	-
HCM Ctrl Dly (s/v)	-	-	11.4	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	1.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	89	10	315	116	13	298
Future Vol, veh/h	89	10	315	116	13	298
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	94	11	332	122	14	314

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	734	227	0	0	454	0
Stage 1	393	-	-	-	-	-
Stage 2	341	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	375	782	-	-	1118	-
Stage 1	657	-	-	-	-	-
Stage 2	725	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	370	782	-	-	1118	-
Mov Cap-2 Maneuver	481	-	-	-	-	-
Stage 1	657	-	-	-	-	-
Stage 2	716	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	14.07	0	0.35
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	501	1118	-
HCM Lane V/C Ratio	-	-	0.208	0.012	-
HCM Ctrl Dly (s/v)	-	-	14.1	8.3	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.8	0	-

Intersection	
Int Delay, s/veh	0.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	38	7	424	42	6	381
Future Vol, veh/h	38	7	424	42	6	381
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	40	7	446	44	6	401

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	882	245	0	0	491	0
Stage 1	468	-	-	-	-	-
Stage 2	414	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	304	761	-	-	1083	-
Stage 1	602	-	-	-	-	-
Stage 2	672	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	302	761	-	-	1083	-
Mov Cap-2 Maneuver	426	-	-	-	-	-
Stage 1	602	-	-	-	-	-
Stage 2	668	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	13.77	0	0.13
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	458	1083	-
HCM Lane V/C Ratio	-	-	0.104	0.006	-
HCM Ctrl Dly (s/v)	-	-	13.8	8.3	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	61	47	15	50	57	64
Future Vol, veh/h	61	47	15	50	57	64
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	64	49	16	53	60	67
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7.7	8.1	8
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	57	64	61	47	15	50
LT Vol	57	0	0	0	15	0
Through Vol	0	0	61	0	0	50
RT Vol	0	64	0	47	0	0
Lane Flow Rate	60	67	64	49	16	53
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.091	0.079	0.087	0.057	0.024	0.072
Departure Headway (Hd)	5.432	4.23	4.877	4.175	5.411	4.909
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	662	850	737	861	664	732
Service Time	3.143	1.94	2.589	1.886	3.123	2.621
HCM Lane V/C Ratio	0.091	0.079	0.087	0.057	0.024	0.072
HCM Control Delay, s/veh	8.7	7.3	8.1	7.1	8.3	8
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.3	0.3	0.3	0.2	0.1	0.2

Intersection	
Intersection Delay, s/veh	8.3
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	11	14	71	0	0	0	0	121	24	19	53	0
Future Vol, veh/h	11	14	71	0	0	0	0	121	24	19	53	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	12	15	75	0	0	0	0	127	25	20	56	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7.7	8.7	8.3
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	100%	0%	0%	100%	0%
Vol Thru, %	83%	0%	100%	0%	0%	100%
Vol Right, %	17%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	145	11	14	71	19	53
LT Vol	0	11	0	0	19	0
Through Vol	121	0	14	0	0	53
RT Vol	24	0	0	71	0	0
Lane Flow Rate	153	12	15	75	20	56
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.204	0.018	0.021	0.091	0.031	0.078
Departure Headway (Hd)	4.801	5.574	5.072	4.37	5.563	5.062
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	749	644	708	822	645	709
Service Time	2.518	3.29	2.789	2.086	3.285	2.783
HCM Lane V/C Ratio	0.204	0.019	0.021	0.091	0.031	0.079
HCM Control Delay, s/veh	8.7	8.4	7.9	7.5	8.5	8.2
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.8	0.1	0.1	0.3	0.1	0.3

Intersection	
Int Delay, s/veh	6.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	43	71	4	27	96	19	8	78	48	22	65	30
Future Vol, veh/h	43	71	4	27	96	19	8	78	48	22	65	30
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	45	75	4	28	101	20	8	82	51	23	68	32

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	280	280	84	276	271	107	100	0	0	133	0	0
Stage 1	131	131	-	124	124	-	-	-	-	-	-	-
Stage 2	149	149	-	152	146	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	676	632	981	680	639	952	1505	-	-	1465	-	-
Stage 1	878	792	-	885	797	-	-	-	-	-	-	-
Stage 2	858	777	-	855	780	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	545	618	981	584	626	952	1505	-	-	1465	-	-
Mov Cap-2 Maneuver	545	618	-	584	626	-	-	-	-	-	-	-
Stage 1	864	780	-	880	793	-	-	-	-	-	-	-
Stage 2	729	773	-	758	767	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	12.61	12.23	0.44	1.41
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1505	-	-	597	647	1465	-	-
HCM Lane V/C Ratio	0.006	-	-	0.208	0.231	0.016	-	-
HCM Ctrl Dly (s/v)	7.4	-	-	12.6	12.2	7.5	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.8	0.9	0	-	-

Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	121	0	4	0	187	126	12	138	0
Future Vol, veh/h	0	0	0	121	0	4	0	187	126	12	138	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	127	0	4	0	197	133	13	145	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	367	500	145	434	434	263	145	0	0	329	0	0
Stage 1	171	171	-	263	263	-	-	-	-	-	-	-
Stage 2	197	329	-	171	171	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	593	476	907	536	518	780	1449	-	-	1241	-	-
Stage 1	836	761	-	746	694	-	-	-	-	-	-	-
Stage 2	810	650	-	836	761	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	583	471	907	530	513	780	1449	-	-	1241	-	-
Mov Cap-2 Maneuver	583	471	-	530	513	-	-	-	-	-	-	-
Stage 1	828	754	-	746	694	-	-	-	-	-	-	-
Stage 2	805	650	-	828	754	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0	13.89	0	0.63
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1449	-	-	-	536	1241	-	-
HCM Lane V/C Ratio	-	-	-	-	0.245	0.01	-	-
HCM Ctrl Dly (s/v)	0	-	-	0	13.9	7.9	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	1	0	-	-

Intersection	
Int Delay, s/veh	439

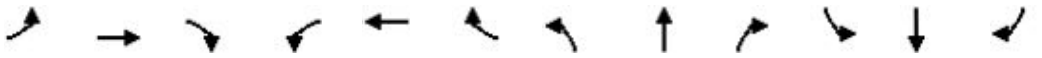
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	133	78	419	29	27	72	159	383	28	47	430	42
Future Vol, veh/h	133	78	419	29	27	72	159	383	28	47	430	42
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	200	-	0	115	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	140	82	441	31	28	76	167	403	29	49	453	44

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1326	1341	475	1331	1334	403	497	0	0	433	0	0
Stage 1	574	574	-	738	738	-	-	-	-	-	-	-
Stage 2	752	767	-	593	596	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	~ 134	154	594	133	155	652	1077	-	-	1138	-	-
Stage 1	508	507	-	413	427	-	-	-	-	-	-	-
Stage 2	405	414	-	496	495	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 77	124	594	~ 11	125	652	1077	-	-	1138	-	-
Mov Cap-2 Maneuver	~ 77	124	-	~ 11	125	-	-	-	-	-	-	-
Stage 1	486	485	-	349	361	-	-	-	-	-	-	-
Stage 2	279	350	-	101	474	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	$ 1043.44	$ 1185.25	2.5	0.75
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1077	-	-	206	42	1138	-	-
HCM Lane V/C Ratio	0.155	-	-	3.214	3.186	0.043	-	-
HCM Ctrl Dly (s/v)	9	-	-	$ 1043.4	$ 1185.2	8.3	-	-
HCM Lane LOS	A	-	-	F	F	A	-	-
HCM 95th %tile Q(veh)	0.5	-	-	61.2	14.9	0.1	-	-

Notes	
~: Volume exceeds capacity	$: Delay exceeds 300s
+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	135	457	60	226	241	616	296	80	267	514	134
Future Volume (veh/h)	84	135	457	60	226	241	616	296	80	267	514	134
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	88	142	0	63	238	0	648	312	84	281	541	141
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	122	489		102	449		216	817	216	340	680	577
Arrive On Green	0.07	0.14	0.00	0.06	0.12	0.00	0.12	0.29	0.29	0.19	0.36	0.36
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	2823	748	1810	1900	1610
Grp Volume(v), veh/h	88	142	0	63	238	0	648	198	198	281	541	141
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1765	1810	1900	1610
Q Serve(g_s), s	2.6	1.9	0.0	1.9	3.4	0.0	6.5	4.8	4.9	8.1	13.9	3.4
Cycle Q Clear(g_c), s	2.6	1.9	0.0	1.9	3.4	0.0	6.5	4.8	4.9	8.1	13.9	3.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.42	1.00		1.00
Lane Grp Cap(c), veh/h	122	489		102	449		216	522	511	340	680	577
V/C Ratio(X)	0.72	0.29		0.62	0.53		3.00	0.38	0.39	0.83	0.80	0.24
Avail Cap(c_a), veh/h	216	2287		415	2685		216	1376	1346	449	1692	1434
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	24.9	21.2	0.0	25.1	22.3	0.0	24.0	15.4	15.5	21.2	15.7	12.3
Incr Delay (d2), s/veh	7.7	0.3	0.0	5.9	1.0	0.0	912.2	0.5	0.5	9.3	2.2	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.7	0.0	0.9	1.3	0.0	57.1	1.6	1.6	3.6	4.7	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	32.6	21.5	0.0	31.0	23.3	0.0	936.2	15.9	16.0	30.5	17.9	12.5
LnGrp LOS	C	C		C	C		F	B	B	C	B	B
Approach Vol, veh/h		230			301			1044			963	
Approach Delay, s/veh		25.7			24.9			587.1			20.8	
Approach LOS		C			C			F			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.7	20.3	7.6	11.9	11.0	24.0	8.2	11.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	10.1	6.9	3.9	3.9	8.5	15.9	4.6	5.4
Green Ext Time (p_c), s	0.3	2.1	0.1	0.7	0.0	3.6	0.0	1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	254.7
HCM 7th LOS	F

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	0.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	15	3	4	914	890	31
Future Vol, veh/h	15	3	4	914	890	31
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	25	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	16	3	4	962	937	33

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1924	953	969	0	-	0
Stage 1	953	-	-	-	-	-
Stage 2	971	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	74	317	719	-	-	-
Stage 1	378	-	-	-	-	-
Stage 2	371	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	73	317	719	-	-	-
Mov Cap-2 Maneuver	73	-	-	-	-	-
Stage 1	373	-	-	-	-	-
Stage 2	371	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	58.53	0.04	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	8	-	73	317	-	-
HCM Lane V/C Ratio	0.006	-	0.215	0.01	-	-
HCM Ctrl Dly (s/v)	10	0	66.9	16.5	-	-
HCM Lane LOS	B	A	F	C	-	-
HCM 95th %tile Q(veh)	0	-	0.7	0	-	-

Intersection	
Int Delay, s/veh	2.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	26	0	36	25	0	3	51	890	10	2	874	22
Future Vol, veh/h	26	0	36	25	0	3	51	890	10	2	874	22
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	25	-	-	25	0	-	-	0	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	27	0	38	26	0	3	54	937	11	2	920	23

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1512	1991	472	1514	1997	474	943	0	0	947	0	0
Stage 1	936	936	-	1049	1049	-	-	-	-	-	-	-
Stage 2	576	1055	-	464	947	-	-	-	-	-	-	-
Critical Hdwy	7.5	6.5	6.9	7.5	6.5	6.9	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.5	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.5	5.5	-	6.5	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	84	61	544	84	61	542	735	-	-	733	-	-
Stage 1	289	347	-	247	307	-	-	-	-	-	-	-
Stage 2	475	305	-	553	342	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	77	57	544	72	56	542	735	-	-	733	-	-
Mov Cap-2 Maneuver	77	57	-	72	56	-	-	-	-	-	-	-
Stage 1	288	346	-	229	284	-	-	-	-	-	-	-
Stage 2	438	283	-	513	341	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	38.52	73.7	0.55	0.02
HCM LOS	E	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	735	-	-	77	544	72	542	733	-	-
HCM Lane V/C Ratio	0.073	-	-	0.354	0.07	0.365	0.006	0.003	-	-
HCM Ctrl Dly (s/v)	10.3	-	-	75.1	12.1	81.1	11.7	9.9	-	-
HCM Lane LOS	B	-	-	F	B	F	B	A	-	-
HCM 95th %tile Q(veh)	0.2	-	-	1.4	0.2	1.4	0	0	-	-

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	43	90	92	820	858	81
Future Vol, veh/h	43	90	92	820	858	81
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	0	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	45	95	97	863	903	85

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1571	494	988	0	-	0
Stage 1	946	-	-	-	-	-
Stage 2	625	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	103	526	707	-	-	-
Stage 1	343	-	-	-	-	-
Stage 2	501	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	89	526	707	-	-	-
Mov Cap-2 Maneuver	207	-	-	-	-	-
Stage 1	296	-	-	-	-	-
Stage 2	501	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	17.82	1.1	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	707	-	207	526	-	-
HCM Lane V/C Ratio	0.137	-	0.219	0.18	-	-
HCM Ctrl Dly (s/v)	10.9	-	27.2	13.3	-	-
HCM Lane LOS	B	-	D	B	-	-
HCM 95th %tile Q(veh)	0.5	-	0.8	0.7	-	-

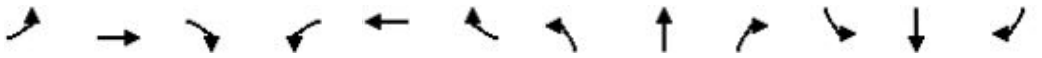
Intersection	
Int Delay, s/veh	2.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	11	948	18	160	938	34	10	0	82	8	0	10
Future Vol, veh/h	11	948	18	160	938	34	10	0	82	8	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	0	-	-	-	-	25	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	12	998	19	168	987	36	11	0	86	8	0	11

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	1023	0	0	1017	0	0	1861	2391	508	1864	2382	512
Stage 1	-	-	-	-	-	-	1031	1031	-	1342	1342	-
Stage 2	-	-	-	-	-	-	831	1360	-	522	1040	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	686	-	-	690	-	-	46	34	515	46	35	513
Stage 1	-	-	-	-	-	-	253	313	-	163	223	-
Stage 2	-	-	-	-	-	-	335	218	-	511	310	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	686	-	-	690	-	-	34	26	515	28	26	513
Mov Cap-2 Maneuver	-	-	-	-	-	-	34	26	-	28	26	-
Stage 1	-	-	-	-	-	-	249	308	-	123	168	-
Stage 2	-	-	-	-	-	-	248	165	-	418	305	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0.12	1.68	28.82	91.21
HCM LOS			D	F

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	34	515	686	-	-	690	-	-	60
HCM Lane V/C Ratio	0.314	0.168	0.017	-	-	0.244	-	-	0.318
HCM Ctrl Dly (s/v)	155.4	13.4	10.3	-	-	11.9	-	-	91.2
HCM Lane LOS	F	B	B	-	-	B	-	-	F
HCM 95th %tile Q(veh)	1	0.6	0.1	-	-	1	-	-	1.1



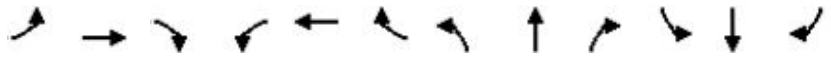
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	13	1101	15	108	1035	180	14	1	134	245	4	13
Future Volume (veh/h)	13	1101	15	108	1035	180	14	1	134	245	4	13
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	14	1159	16	114	1089	189	15	1	141	261	0	14
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	31	1479	20	149	2093	363	220	231	195	412	0	184
Arrive On Green	0.02	0.41	0.41	0.08	0.47	0.47	0.12	0.12	0.12	0.11	0.00	0.11
Sat Flow, veh/h	1810	3646	50	1810	4446	771	1810	1900	1610	3619	0	1610
Grp Volume(v), veh/h	14	574	601	114	847	431	15	1	141	261	0	14
Grp Sat Flow(s),veh/h/ln	1810	1805	1891	1810	1729	1759	1810	1900	1610	1810	0	1610
Q Serve(g_s), s	0.5	18.0	18.0	4.0	11.2	11.2	0.5	0.0	5.5	4.5	0.0	0.5
Cycle Q Clear(g_c), s	0.5	18.0	18.0	4.0	11.2	11.2	0.5	0.0	5.5	4.5	0.0	0.5
Prop In Lane	1.00		0.03	1.00		0.44	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	31	732	767	149	1628	828	220	231	195	412	0	184
V/C Ratio(X)	0.45	0.78	0.78	0.77	0.52	0.52	0.07	0.00	0.72	0.63	0.00	0.08
Avail Cap(c_a), veh/h	292	957	1003	348	1941	987	654	687	582	1753	0	780
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	31.7	16.8	16.8	29.2	12.1	12.1	25.3	25.1	27.5	27.5	0.0	25.8
Incr Delay (d2), s/veh	9.9	3.2	3.1	7.9	0.3	0.5	0.1	0.0	5.0	1.6	0.0	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	6.9	7.2	1.9	3.5	3.7	0.2	0.0	2.2	1.9	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	41.5	20.0	19.9	37.2	12.3	12.6	25.4	25.1	32.5	29.1	0.0	25.9
LnGrp LOS	D	C	B	D	B	B	C	C	C	C		C
Approach Vol, veh/h		1189			1392			157			275	
Approach Delay, s/veh		20.2			14.4			31.8			29.0	
Approach LOS		C			B			C			C	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		12.4	9.9	30.9		11.9	5.6	35.1				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		23.5	12.5	34.5		31.5	10.5	36.5				
Max Q Clear Time (g_c+I1), s		7.5	6.0	20.0		6.5	2.5	13.2				
Green Ext Time (p_c), s		0.4	0.1	6.3		0.9	0.0	9.0				

Intersection Summary	
HCM 7th Control Delay, s/veh	18.9
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.



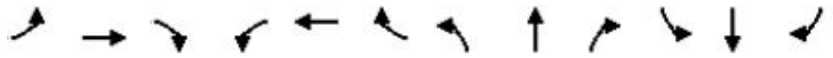
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	862	618	0	773	0	0	0	0	588	0	589
Future Volume (veh/h)	0	862	618	0	773	0	0	0	0	588	0	589
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	907	0	0	814	0				619	0	620
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1304		0	1304					1574	0	722
Arrive On Green	0.00	0.36	0.00	0.00	0.36	0.00				0.45	0.00	0.45
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	907	0	0	814	0				619	0	620
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	10.1	0.0	0.0	8.8	0.0				5.6	0.0	16.3
Cycle Q Clear(g_c), s	0.0	10.1	0.0	0.0	8.8	0.0				5.6	0.0	16.3
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1304		0	1304					1574	0	722
V/C Ratio(X)	0.00	0.70		0.00	0.62					0.39	0.00	0.86
Avail Cap(c_a), veh/h	0	1946		0	1946					1892	0	868
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	12.9	0.0	0.0	12.5	0.0				8.7	0.0	11.7
Incr Delay (d2), s/veh	0.0	0.7	0.0	0.0	0.5	0.0				0.2	0.0	7.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	3.2	0.0	0.0	2.7	0.0				1.2	0.0	4.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	13.6	0.0	0.0	13.0	0.0				8.9	0.0	19.2
LnGrp LOS		B			B					A		B
Approach Vol, veh/h		907			814						1239	
Approach Delay, s/veh		13.6			13.0						14.0	
Approach LOS		B			B						B	

Timer - Assigned Phs		4		6		8
Phs Duration (G+Y+Rc), s		21.6		25.7		21.6
Change Period (Y+Rc), s		4.5		4.5		4.5
Max Green Setting (Gmax), s		25.5		25.5		25.5
Max Q Clear Time (g_c+I1), s		12.1		18.3		10.8
Green Ext Time (p_c), s		5.0		2.9		4.6

Intersection Summary	
HCM 7th Control Delay, s/veh	13.6
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	297	861	101	0	1236	149	461	124	297	54	0	427
Future Volume (veh/h)	297	861	101	0	1236	149	461	124	297	54	0	427
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	313	906	0	0	1301	157	308	379	313	57	0	449
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	448	2954		0	1751	211	531	558	946	0	0	0
Arrive On Green	0.13	0.57	0.00	0.00	0.37	0.37	0.29	0.29	0.29	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	4861	566	1810	1900	3220		0	
Grp Volume(v), veh/h	313	906	0	0	959	499	308	379	313		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1798	1810	1900	1610			
Q Serve(g_s), s	5.6	6.0	0.0	0.0	15.8	15.8	9.5	11.6	5.0			
Cycle Q Clear(g_c), s	5.6	6.0	0.0	0.0	15.8	15.8	9.5	11.6	5.0			
Prop In Lane	1.00		1.00	0.00		0.31	1.00		1.00			
Lane Grp Cap(c), veh/h	448	2954		0	1291	671	531	558	946			
V/C Ratio(X)	0.70	0.31		0.00	0.74	0.74	0.58	0.68	0.33			
Avail Cap(c_a), veh/h	961	4064		0	1526	793	531	558	946			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	27.5	7.4	0.0	0.0	17.9	17.9	19.8	20.5	18.2			
Incr Delay (d2), s/veh	2.0	0.1	0.0	0.0	1.7	3.2	4.6	6.5	0.9			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	2.3	1.7	0.0	0.0	5.7	6.2	4.0	5.2	1.7			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	29.4	7.4	0.0	0.0	19.5	21.0	24.3	27.0	19.1			
LnGrp LOS	C	A			B	C	C	C	B			
Approach Vol, veh/h		1219			1458			1000				
Approach Delay, s/veh		13.1			20.0			23.7				
Approach LOS		B			C			C				

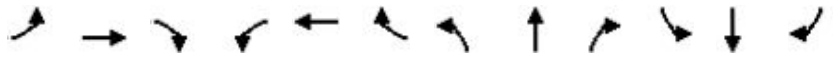
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	41.9	12.9	29.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	13.6	8.0	7.6	17.8
Green Ext Time (p_c), s	2.2	7.1	0.8	6.7

Intersection Summary	
HCM 7th Control Delay, s/veh	18.7
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

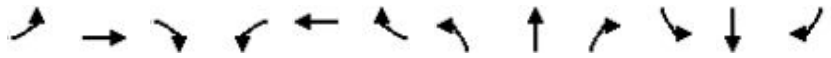


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	436	232	54	743	0	0	0	0	41	23	20
Future Volume (veh/h)	0	436	232	54	743	0	0	0	0	41	23	20
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	459	244	57	782	0				34	37	21
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	771	407	113	1972	0				293	308	261
Arrive On Green	0.00	0.34	0.34	0.06	0.55	0.00				0.16	0.16	0.16
Sat Flow, veh/h	0	2378	1205	1810	3705	0				1810	1900	1610
Grp Volume(v), veh/h	0	362	341	57	782	0				34	37	21
Grp Sat Flow(s),veh/h/ln	0	1805	1683	1810	1805	0				1810	1900	1610
Q Serve(g_s), s	0.0	5.1	5.2	0.9	3.9	0.0				0.5	0.5	0.3
Cycle Q Clear(g_c), s	0.0	5.1	5.2	0.9	3.9	0.0				0.5	0.5	0.3
Prop In Lane	0.00		0.72	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	610	569	113	1972	0				293	308	261
V/C Ratio(X)	0.00	0.59	0.60	0.50	0.40	0.00				0.12	0.12	0.08
Avail Cap(c_a), veh/h	0	1141	1064	381	3568	0				1202	1262	1070
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	8.5	8.5	14.0	4.1	0.0				11.0	11.0	11.0
Incr Delay (d2), s/veh	0.0	0.9	1.0	3.4	0.1	0.0				0.2	0.2	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.1	1.1	0.3	0.0	0.0				0.1	0.1	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.4	9.5	17.4	4.2	0.0				11.2	11.2	11.1
LnGrp LOS		A	A	B	A					B	B	B
Approach Vol, veh/h		703			839						92	
Approach Delay, s/veh		9.4			5.1						11.2	
Approach LOS		A			A						B	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		6.4	14.9		9.5		21.4					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		2.9	7.2		2.5		5.9					
Green Ext Time (p_c), s		0.0	3.2		0.2		4.8					

Intersection Summary	
HCM 7th Control Delay, s/veh	7.3
HCM 7th LOS	A

Notes
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	452	0	0	504	79	273	0	144	0	0	0
Future Volume (veh/h)	21	452	0	0	504	79	273	0	144	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	0	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	22	476	0	0	531	83	287	0	152			
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	51	1609	0	0	966	431	460	0	409			
Arrive On Green	0.03	0.45	0.00	0.00	0.27	0.27	0.25	0.00	0.25			
Sat Flow, veh/h	1810	3705	0	0	3705	1610	1810	0	1610			
Grp Volume(v), veh/h	22	476	0	0	531	83	287	0	152			
Grp Sat Flow(s),veh/h/ln	1810	1805	0	0	1805	1610	1810	0	1610			
Q Serve(g_s), s	0.4	2.5	0.0	0.0	3.8	1.2	4.2	0.0	2.3			
Cycle Q Clear(g_c), s	0.4	2.5	0.0	0.0	3.8	1.2	4.2	0.0	2.3			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	51	1609	0	0	966	431	460	0	409			
V/C Ratio(X)	0.44	0.30	0.00	0.00	0.55	0.19	0.62	0.00	0.37			
Avail Cap(c_a), veh/h	905	4153	0	0	1806	805	996	0	886			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	14.3	5.3	0.0	0.0	9.4	8.5	9.9	0.0	9.2			
Incr Delay (d2), s/veh	5.8	0.1	0.0	0.0	0.5	0.2	1.4	0.0	0.6			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.2	0.2	0.0	0.0	0.7	0.2	0.9	0.0	0.4			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	20.1	5.4	0.0	0.0	9.9	8.7	11.3	0.0	9.8			
LnGrp LOS	C	A			A	A	B		A			
Approach Vol, veh/h		498			614			439				
Approach Delay, s/veh		6.1			9.8			10.8				
Approach LOS		A			A			B				

Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	12.1	17.9	5.3	12.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5	15.0	15.0
Max Q Clear Time (g_c+I1), s	6.2	4.5	2.4	5.8
Green Ext Time (p_c), s	1.4	2.8	0.0	2.2

Intersection Summary	
HCM 7th Control Delay, s/veh	8.9
HCM 7th LOS	A

Intersection	
Int Delay, s/veh	0.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	23	3	310	15	2	243
Future Vol, veh/h	23	3	310	15	2	243
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	24	3	326	16	2	256

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	594	171	0	0	342	0
Stage 1	334	-	-	-	-	-
Stage 2	260	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	456	849	-	-	1228	-
Stage 1	703	-	-	-	-	-
Stage 2	788	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	455	849	-	-	1228	-
Mov Cap-2 Maneuver	545	-	-	-	-	-
Stage 1	703	-	-	-	-	-
Stage 2	787	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.65	0	0.06
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	568	1228	-
HCM Lane V/C Ratio	-	-	0.048	0.002	-
HCM Ctrl Dly (s/v)	-	-	11.7	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.2	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	2	323	8	1	265
Future Vol, veh/h	12	2	323	8	1	265
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	13	2	340	8	1	279

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	625	174	0	0	348	0
Stage 1	344	-	-	-	-	-
Stage 2	281	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	436	845	-	-	1222	-
Stage 1	695	-	-	-	-	-
Stage 2	771	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	436	845	-	-	1222	-
Mov Cap-2 Maneuver	531	-	-	-	-	-
Stage 1	695	-	-	-	-	-
Stage 2	770	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.59	0	0.03
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	561	1222	-
HCM Lane V/C Ratio	-	-	0.026	0.001	-
HCM Ctrl Dly (s/v)	-	-	11.6	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	42	4	327	27	2	275
Future Vol, veh/h	42	4	327	27	2	275
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	44	4	344	28	2	289

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	652	186	0	0	373	0
Stage 1	358	-	-	-	-	-
Stage 2	294	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	420	830	-	-	1197	-
Stage 1	684	-	-	-	-	-
Stage 2	761	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	419	830	-	-	1197	-
Mov Cap-2 Maneuver	519	-	-	-	-	-
Stage 1	684	-	-	-	-	-
Stage 2	760	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	12.38	0	0.06
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	536	1197	-
HCM Lane V/C Ratio	-	-	0.09	0.002	-
HCM Ctrl Dly (s/v)	-	-	12.4	8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	2	352	7	2	315
Future Vol, veh/h	12	2	352	7	2	315
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	13	2	371	7	2	332

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	710	189	0	0	378	0
Stage 1	374	-	-	-	-	-
Stage 2	336	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	387	827	-	-	1192	-
Stage 1	671	-	-	-	-	-
Stage 2	729	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	387	827	-	-	1192	-
Mov Cap-2 Maneuver	495	-	-	-	-	-
Stage 1	671	-	-	-	-	-
Stage 2	727	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	12.06	0	0.05
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	525	1192	-
HCM Lane V/C Ratio	-	-	0.028	0.002	-
HCM Ctrl Dly (s/v)	-	-	12.1	8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	42	4	355	26	2	325
Future Vol, veh/h	42	4	355	26	2	325
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	44	4	374	27	2	342

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	734	201	0	0	401	0
Stage 1	387	-	-	-	-	-
Stage 2	346	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	375	813	-	-	1169	-
Stage 1	661	-	-	-	-	-
Stage 2	721	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	374	813	-	-	1169	-
Mov Cap-2 Maneuver	485	-	-	-	-	-
Stage 1	661	-	-	-	-	-
Stage 2	719	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	12.93	0	0.05
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	502	1169	-
HCM Lane V/C Ratio	-	-	0.096	0.002	-
HCM Ctrl Dly (s/v)	-	-	12.9	8.1	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	2	379	8	1	366
Future Vol, veh/h	12	2	379	8	1	366
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	13	2	399	8	1	385

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	791	204	0	0	407	0
Stage 1	403	-	-	-	-	-
Stage 2	387	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	346	809	-	-	1162	-
Stage 1	649	-	-	-	-	-
Stage 2	690	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	346	809	-	-	1162	-
Mov Cap-2 Maneuver	463	-	-	-	-	-
Stage 1	649	-	-	-	-	-
Stage 2	690	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	12.53	0	0.02
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	493	1162	-
HCM Lane V/C Ratio	-	-	0.03	0.001	-
HCM Ctrl Dly (s/v)	-	-	12.5	8.1	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	2.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	119	12	375	112	13	365
Future Vol, veh/h	119	12	375	112	13	365
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	125	13	395	118	14	384

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	865	256	0	0	513	0
Stage 1	454	-	-	-	-	-
Stage 2	412	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	311	749	-	-	1063	-
Stage 1	612	-	-	-	-	-
Stage 2	673	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	307	749	-	-	1063	-
Mov Cap-2 Maneuver	431	-	-	-	-	-
Stage 1	612	-	-	-	-	-
Stage 2	664	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	16.56	0	0.29
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	448	1063	-
HCM Lane V/C Ratio	-	-	0.308	0.013	-
HCM Ctrl Dly (s/v)	-	-	16.6	8.4	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	1.3	0	-

Intersection	
Int Delay, s/veh	0.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	44	8	479	45	9	475
Future Vol, veh/h	44	8	479	45	9	475
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	46	8	504	47	9	500

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1047	276	0	0	552	0
Stage 1	528	-	-	-	-	-
Stage 2	519	-	-	-	-	-
Critical Hdwy	6.6	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	241	728	-	-	1028	-
Stage 1	562	-	-	-	-	-
Stage 2	601	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	238	728	-	-	1028	-
Mov Cap-2 Maneuver	373	-	-	-	-	-
Stage 1	562	-	-	-	-	-
Stage 2	596	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	15.34	0	0.16
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	403	1028	-
HCM Lane V/C Ratio	-	-	0.136	0.009	-
HCM Ctrl Dly (s/v)	-	-	15.3	8.5	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	0.5	0	-

Appendix D

LOS Worksheets w/Improvements

Intersection	
Intersection Delay, s/veh	7.3
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	5	54	10	14	21	61
Future Vol, veh/h	5	54	10	14	21	61
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	6	62	11	16	24	70
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7	7.8	7.3
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	21	61	5	54	10	14
LT Vol	21	0	0	0	10	0
Through Vol	0	0	5	0	0	14
RT Vol	0	61	0	54	0	0
Lane Flow Rate	24	70	6	62	11	16
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.035	0.077	0.007	0.069	0.017	0.021
Departure Headway (Hd)	5.159	3.958	4.676	3.975	5.198	4.697
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	691	898	759	892	684	756
Service Time	2.915	1.714	2.441	1.739	2.965	2.464
HCM Lane V/C Ratio	0.035	0.078	0.008	0.07	0.016	0.021
HCM Control Delay, s/veh	8.1	7	7.5	7	8.1	7.6
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.1	0.2	0	0.2	0.1	0.1

Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	0	60	0	0	0	0	81	5	17	46	0
Future Vol, veh/h	1	0	60	0	0	0	0	81	5	17	46	0
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	0	70	0	0	0	0	94	6	20	53	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7.3	8.2	8.1
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	100%	0%	0%	100%	0%
Vol Thru, %	94%	0%	100%	0%	0%	100%
Vol Right, %	6%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	86	1	0	60	17	46
LT Vol	0	1	0	0	17	0
Through Vol	81	0	0	0	0	46
RT Vol	5	0	0	60	0	0
Lane Flow Rate	100	1	0	70	20	53
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.13	0.002	0	0.082	0.03	0.072
Departure Headway (Hd)	4.696	5.436	4.934	4.232	5.376	4.875
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	752	662	0	851	669	738
Service Time	2.495	3.139	2.638	1.936	3.082	2.581
HCM Lane V/C Ratio	0.133	0.002	0	0.082	0.03	0.072
HCM Control Delay, s/veh	8.2	8.1	7.6	7.3	8.2	8
HCM Lane LOS	A	A	N	A	A	A
HCM 95th-tile Q	0.4	0	0	0.3	0.1	0.2

Intersection	
Int Delay, s/veh	3.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	15	15	67	3	10	13	86	55	3	100	3
Future Vol, veh/h	3	15	15	67	3	10	13	86	55	3	100	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	3	16	16	72	3	11	14	92	59	3	108	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	238	295	109	272	267	122	111	0	0	152	0	0
Stage 1	116	116	-	150	150	-	-	-	-	-	-	-
Stage 2	122	180	-	122	117	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	721	620	950	685	642	934	1492	-	-	1442	-	-
Stage 1	894	804	-	857	777	-	-	-	-	-	-	-
Stage 2	887	755	-	887	803	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	701	612	950	648	635	934	1492	-	-	1442	-	-
Mov Cap-2 Maneuver	701	612	-	648	635	-	-	-	-	-	-	-
Stage 1	892	802	-	849	770	-	-	-	-	-	-	-
Stage 2	865	748	-	853	801	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.11	11.13	0.63	0.21
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1492	-	-	740	673	1442	-	-
HCM Lane V/C Ratio	0.009	-	-	0.048	0.128	0.002	-	-
HCM Ctrl Dly (s/v)	7.4	-	-	10.1	11.1	7.5	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0.4	0	-	-

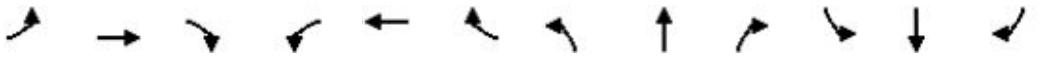
Intersection	
Int Delay, s/veh	2.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	1	61	0	12	0	142	37	16	164	0
Future Vol, veh/h	0	0	1	61	0	12	0	142	37	16	164	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	0	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	1	80	0	16	0	187	49	21	216	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	445	493	216	469	469	211	216	0	0	236	0	0
Stage 1	258	258	-	211	211	-	-	-	-	-	-	-
Stage 2	187	236	-	258	258	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	527	480	829	508	495	834	1366	-	-	1344	-	-
Stage 1	751	698	-	796	731	-	-	-	-	-	-	-
Stage 2	820	714	-	751	698	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	509	472	829	499	487	834	1366	-	-	1344	-	-
Mov Cap-2 Maneuver	509	472	-	499	487	-	-	-	-	-	-	-
Stage 1	739	687	-	796	731	-	-	-	-	-	-	-
Stage 2	804	714	-	738	687	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.35	13.21	0	0.69
HCM LOS	A	B		

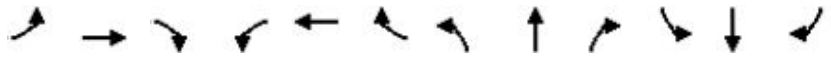
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1366	-	-	829	534	1344	-	-
HCM Lane V/C Ratio	-	-	-	0.002	0.18	0.016	-	-
HCM Ctrl Dly (s/v)	0	-	-	9.3	13.2	7.7	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.6	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	12	9	66	29	43	28	218	479	20	4	333	74
Future Volume (veh/h)	12	9	66	29	43	28	218	479	20	4	333	74
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	15	12	85	37	55	36	279	614	26	5	427	95
Peak Hour Factor	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	414	295	250	466	166	109	1173	967	820	489	967	820
Arrive On Green	0.16	0.16	0.16	0.16	0.16	0.16	0.51	0.51	0.51	0.51	0.51	0.51
Sat Flow, veh/h	1326	1900	1610	1319	1072	702	1734	1900	1610	801	1900	1610
Grp Volume(v), veh/h	15	12	85	37	0	91	279	614	26	5	427	95
Grp Sat Flow(s),veh/h/ln	1326	1900	1610	1319	0	1774	867	1900	1610	801	1900	1610
Q Serve(g_s), s	0.3	0.1	1.3	0.7	0.0	1.2	3.3	6.3	0.2	0.1	3.8	0.8
Cycle Q Clear(g_c), s	1.5	0.1	1.3	0.8	0.0	1.2	7.1	6.3	0.2	6.4	3.8	0.8
Prop In Lane	1.00		1.00	1.00		0.40	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	414	295	250	466	0	275	1173	967	820	489	967	820
V/C Ratio(X)	0.04	0.04	0.34	0.08	0.00	0.33	0.24	0.63	0.03	0.01	0.44	0.12
Avail Cap(c_a), veh/h	1098	1275	1081	1147	0	1190	1778	1629	1381	768	1629	1381
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	10.8	9.6	10.1	10.0	0.0	10.1	6.4	4.8	3.3	7.1	4.2	3.4
Incr Delay (d2), s/veh	0.0	0.1	0.8	0.1	0.0	0.7	0.1	0.7	0.0	0.0	0.3	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.3	0.1	0.0	0.4	0.1	0.2	0.0	0.0	0.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	10.8	9.7	10.9	10.0	0.0	10.8	6.5	5.5	3.3	7.1	4.5	3.5
LnGrp LOS	B	A	B	B		B	A	A	A	A	A	A
Approach Vol, veh/h		112			128			919			527	
Approach Delay, s/veh		10.8			10.6			5.7			4.3	
Approach LOS		B			B			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		18.2		8.7		18.2		8.7				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		23.0		18.0		23.0		18.0				
Max Q Clear Time (g_c+I1), s		9.1		3.5		8.4		3.2				
Green Ext Time (p_c), s		4.6		0.2		2.2		0.4				

Intersection Summary												
HCM 7th Control Delay, s/veh			6.0									
HCM 7th LOS			A									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	71	193	83	62	94	250	79	371	43	162	154	73
Future Volume (veh/h)	71	193	83	62	94	250	79	371	43	162	154	73
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	78	212	0	68	103	0	87	408	47	178	169	80
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	133	481		121	458		275	737	84	386	916	392
Arrive On Green	0.07	0.13	0.00	0.07	0.13	0.00	0.08	0.23	0.23	0.11	0.26	0.26
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	3510	3264	374	3510	3561	1523
Grp Volume(v), veh/h	78	212	0	68	103	0	87	225	230	178	164	85
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1755	1805	1833	1755	1729	1626
Q Serve(g_s), s	1.6	2.1	0.0	1.4	1.0	0.0	0.9	4.3	4.3	1.8	1.4	1.6
Cycle Q Clear(g_c), s	1.6	2.1	0.0	1.4	1.0	0.0	0.9	4.3	4.3	1.8	1.4	1.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.20	1.00		0.94
Lane Grp Cap(c), veh/h	133	481		121	458		275	408	414	386	890	418
V/C Ratio(X)	0.59	0.44		0.56	0.22		0.32	0.55	0.56	0.46	0.18	0.20
Avail Cap(c_a), veh/h	303	3211		583	3770		588	1931	1961	1222	4324	2033
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.4	15.5	0.0	17.5	15.2	0.0	16.9	13.3	13.3	16.2	11.2	11.3
Incr Delay (d2), s/veh	4.1	0.6	0.0	4.0	0.2	0.0	0.7	1.2	1.2	0.9	0.1	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.6	0.0	0.6	0.3	0.0	0.3	1.3	1.3	0.6	0.4	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	21.5	16.1	0.0	21.6	15.5	0.0	17.5	14.4	14.5	17.0	11.3	11.5
LnGrp LOS	C	B		C	B		B	B	B	B	B	B
Approach Vol, veh/h		290			171			542			427	
Approach Delay, s/veh		17.6			17.9			15.0			13.7	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.8	13.3	7.1	9.7	7.5	14.5	7.3	9.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	3.8	6.3	3.4	4.1	2.9	3.6	3.6	3.0
Green Ext Time (p_c), s	0.3	2.4	0.1	1.1	0.1	1.4	0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	15.5
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

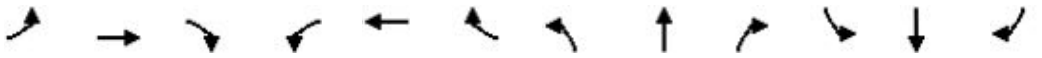
Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	8	0	0	486	297	2
Future Vol, veh/h	8	0	0	486	297	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	25	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	11	0	0	639	391	3

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	712	197	393	0	-	0
Stage 1	392	-	-	-	-	-
Stage 2	320	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	371	818	1176	-	-	-
Stage 1	658	-	-	-	-	-
Stage 2	715	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	371	818	1176	-	-	-
Mov Cap-2 Maneuver	371	-	-	-	-	-
Stage 1	658	-	-	-	-	-
Stage 2	715	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	14.97	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1176	-	371	-	-	-
HCM Lane V/C Ratio	-	-	0.028	-	-	-
HCM Ctrl Dly (s/v)	0	-	15	0	-	-
HCM Lane LOS	A	-	B	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	13	1	25	1	0	0	26	473	9	5	269	24
Future Volume (veh/h)	13	1	25	1	0	0	26	473	9	5	269	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	15	1	29	1	0	0	30	544	10	6	309	28
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	321	5	86	316	0	86	881	2288	42	743	2113	190
Arrive On Green	0.05	0.05	0.05	0.05	0.00	0.00	0.63	0.63	0.63	0.63	0.63	0.63
Sat Flow, veh/h	1427	95	1610	1181	0	1610	1060	3626	67	868	3349	301
Grp Volume(v), veh/h	16	0	29	1	0	0	30	271	283	6	166	171
Grp Sat Flow(s),veh/h/ln	1522	0	1610	1181	0	1610	1060	1805	1888	868	1805	1846
Q Serve(g_s), s	0.0	0.0	0.5	0.0	0.0	0.0	0.3	1.9	1.9	0.1	1.1	1.1
Cycle Q Clear(g_c), s	0.2	0.0	0.5	0.3	0.0	0.0	1.4	1.9	1.9	1.9	1.1	1.1
Prop In Lane	0.94		1.00	1.00		1.00	1.00		0.04	1.00		0.16
Lane Grp Cap(c), veh/h	326	0	86	316	0	86	881	1139	1191	743	1139	1165
V/C Ratio(X)	0.05	0.00	0.34	0.00	0.00	0.00	0.03	0.24	0.24	0.01	0.15	0.15
Avail Cap(c_a), veh/h	1170	0	1016	1125	0	1016	881	1139	1191	743	1139	1165
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	12.9	0.0	13.0	13.0	0.0	0.0	2.4	2.3	2.3	2.7	2.1	2.1
Incr Delay (d2), s/veh	0.1	0.0	2.3	0.0	0.0	0.0	0.1	0.5	0.5	0.0	0.3	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.1	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	13.0	0.0	15.3	13.0	0.0	0.0	2.5	2.8	2.8	2.7	2.4	2.4
LnGrp LOS	B		B	B			A	A	A	A	A	A
Approach Vol, veh/h		45			1			584			343	
Approach Delay, s/veh		14.5			13.0			2.8			2.4	
Approach LOS		B			B			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		22.5		6.0		22.5		6.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.0		18.0		18.0		18.0				
Max Q Clear Time (g_c+I1), s		3.9		2.5		3.9		2.3				
Green Ext Time (p_c), s		3.0		0.1		1.6		0.0				

Intersection Summary												
HCM 7th Control Delay, s/veh			3.2									
HCM 7th LOS			A									

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	4	100	60	502	287	7
Future Volume (veh/h)	4	100	60	502	287	7
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	5	128	77	644	368	9
Peak Hour Factor	0.78	0.78	0.78	0.78	0.78	0.78
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	236	210	722	1526	1522	37
Arrive On Green	0.13	0.13	0.42	0.42	0.42	0.42
Sat Flow, veh/h	1810	1610	1022	3705	3696	88
Grp Volume(v), veh/h	5	128	77	644	184	193
Grp Sat Flow(s),veh/h/ln	1810	1610	1022	1805	1805	1884
Q Serve(g_s), s	0.0	1.5	1.1	2.5	1.3	1.3
Cycle Q Clear(g_c), s	0.0	1.5	2.4	2.5	1.3	1.3
Prop In Lane	1.00	1.00	1.00			0.05
Lane Grp Cap(c), veh/h	236	210	722	1526	763	796
V/C Ratio(X)	0.02	0.61	0.11	0.42	0.24	0.24
Avail Cap(c_a), veh/h	1618	1440	1204	3227	1614	1685
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.6	8.3	4.5	4.1	3.7	3.7
Incr Delay (d2), s/veh	0.0	2.9	0.1	0.2	0.2	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.4	0.1	0.2	0.1	0.1
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	7.7	11.1	4.6	4.3	3.9	3.9
LnGrp LOS	A	B	A	A	A	A
Approach Vol, veh/h	133			721	377	
Approach Delay, s/veh	11.0			4.3	3.9	
Approach LOS	B			A	A	

Timer - Assigned Phs		2		4		6
Phs Duration (G+Y+Rc), s		13.0		7.1		13.0
Change Period (Y+Rc), s		4.5		4.5		4.5
Max Green Setting (Gmax), s		18.0		18.0		18.0
Max Q Clear Time (g_c+I1), s		4.5		3.5		3.3
Green Ext Time (p_c), s		4.0		0.3		1.9

Intersection Summary		
HCM 7th Control Delay, s/veh		4.9
HCM 7th LOS		A

Intersection	
Int Delay, s/veh	2.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	469	19	81	631	30	6	0	152	24	0	8
Future Vol, veh/h	1	469	19	81	631	30	6	0	152	24	0	8
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	0	-	-	-	-	25	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	499	20	86	671	32	6	0	162	26	0	9

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	703	0	0	519	0	0	1019	1387	260	1111	1381	352
Stage 1	-	-	-	-	-	-	511	511	-	860	860	-
Stage 2	-	-	-	-	-	-	508	876	-	252	521	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	904	-	-	1057	-	-	194	144	745	166	145	650
Stage 1	-	-	-	-	-	-	519	540	-	321	376	-
Stage 2	-	-	-	-	-	-	521	369	-	736	535	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	904	-	-	1057	-	-	176	132	745	119	133	650
Mov Cap-2 Maneuver	-	-	-	-	-	-	176	132	-	119	133	-
Stage 1	-	-	-	-	-	-	518	540	-	295	345	-
Stage 2	-	-	-	-	-	-	472	339	-	576	534	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0.02	0.95	11.74	35.91
HCM LOS			B	E

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	176	745	904	-	-	1057	-	-	150
HCM Lane V/C Ratio	0.036	0.217	0.001	-	-	0.082	-	-	0.227
HCM Ctrl Dly (s/v)	26.3	11.2	9	-	-	8.7	-	-	35.9
HCM Lane LOS	D	B	A	-	-	A	-	-	E
HCM 95th %tile Q(veh)	0.1	0.8	0	-	-	0.3	-	-	0.8

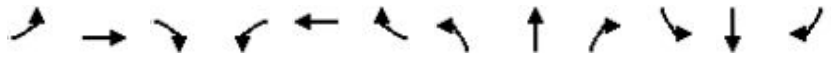
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	36	595	13	50	712	154	4	0	50	231	5	26
Future Volume (veh/h)	36	595	13	50	712	154	4	0	50	231	5	26
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	39	640	14	54	766	166	4	0	54	252	0	28
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	77	1171	26	98	1435	308	194	204	173	465	0	207
Arrive On Green	0.04	0.32	0.32	0.05	0.34	0.34	0.11	0.00	0.11	0.13	0.00	0.13
Sat Flow, veh/h	1810	3612	79	1810	4272	917	1810	1900	1610	3619	0	1610
Grp Volume(v), veh/h	39	320	334	54	619	313	4	0	54	252	0	28
Grp Sat Flow(s),veh/h/ln	1810	1805	1886	1810	1729	1732	1810	1900	1610	1810	0	1610
Q Serve(g_s), s	1.0	6.8	6.8	1.4	6.7	6.8	0.1	0.0	1.4	3.0	0.0	0.7
Cycle Q Clear(g_c), s	1.0	6.8	6.8	1.4	6.7	6.8	0.1	0.0	1.4	3.0	0.0	0.7
Prop In Lane	1.00		0.04	1.00		0.53	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	77	585	612	98	1161	581	194	204	173	465	0	207
V/C Ratio(X)	0.51	0.55	0.55	0.55	0.53	0.54	0.02	0.00	0.31	0.54	0.00	0.14
Avail Cap(c_a), veh/h	407	1335	1395	485	2706	1355	912	957	811	2444	0	1087
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	21.9	12.9	12.9	21.5	12.5	12.6	18.6	0.0	19.2	19.0	0.0	18.0
Incr Delay (d2), s/veh	5.1	0.8	0.8	4.8	0.4	0.8	0.0	0.0	1.0	1.0	0.0	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.2	2.3	0.6	2.0	2.1	0.0	0.0	0.5	1.2	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	26.9	13.7	13.7	26.3	12.9	13.3	18.7	0.0	20.3	20.0	0.0	18.3
LnGrp LOS	C	B	B	C	B	B	B		C	C		B
Approach Vol, veh/h		693			986			58			280	
Approach Delay, s/veh		14.5			13.8			20.1			19.8	
Approach LOS		B			B			C			B	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	9.5	7.0	19.6	10.5	6.5	20.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	23.5	12.5	34.5	31.5	10.5	36.5
Max Q Clear Time (g_c+I1), s	3.4	3.4	8.8	5.0	3.0	8.8
Green Ext Time (p_c), s	0.1	0.1	3.8	1.0	0.0	6.5

Intersection Summary	
HCM 7th Control Delay, s/veh	15.0
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.



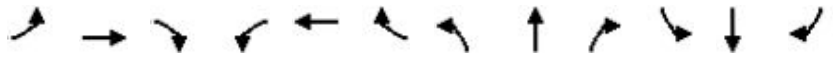
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑	↱		↑↑	↱				↰↰		↱
Traffic Volume (veh/h)	0	406	424	0	550	105	0	0	0	230	0	400
Future Volume (veh/h)	0	406	424	0	550	105	0	0	0	230	0	400
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	441	0	0	598	0				250	0	435
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1171		0	1171					1307	0	600
Arrive On Green	0.00	0.32	0.00	0.00	0.32	0.00				0.37	0.00	0.37
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	441	0	0	598	0				250	0	435
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	2.8	0.0	0.0	4.0	0.0				1.4	0.0	6.9
Cycle Q Clear(g_c), s	0.0	2.8	0.0	0.0	4.0	0.0				1.4	0.0	6.9
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1171		0	1171					1307	0	600
V/C Ratio(X)	0.00	0.38		0.00	0.51					0.19	0.00	0.73
Avail Cap(c_a), veh/h	0	3101		0	3101					3016	0	1383
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	7.7	0.0	0.0	8.1	0.0				6.3	0.0	8.0
Incr Delay (d2), s/veh	0.0	0.2	0.0	0.0	0.3	0.0				0.1	0.0	1.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.6	0.0	0.0	0.9	0.0				0.2	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	7.9	0.0	0.0	8.5	0.0				6.4	0.0	9.7
LnGrp LOS		A			A					A		A
Approach Vol, veh/h		441			598						685	
Approach Delay, s/veh		7.9			8.5						8.5	
Approach LOS		A			A						A	

Timer - Assigned Phs		4		6		8
Phs Duration (G+Y+Rc), s		14.1		15.6		14.1
Change Period (Y+Rc), s		4.5		4.5		4.5
Max Green Setting (Gmax), s		25.5		25.5		25.5
Max Q Clear Time (g_c+I1), s		4.8		8.9		6.0
Green Ext Time (p_c), s		2.6		2.2		3.7

Intersection Summary	
HCM 7th Control Delay, s/veh	8.3
HCM 7th LOS	A

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	128	202	283	0	103	33	438	93	184	18	0	116
Future Volume (veh/h)	128	202	283	0	103	33	438	93	184	18	0	116
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	131	206	0	0	105	34	515	0	188	18	0	118
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	404	1743		0	457	136	1639	0	1458	0	0	0
Arrive On Green	0.12	0.34	0.00	0.00	0.12	0.12	0.45	0.00	0.45	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	4135	1181	3619	0	3220		0	
Grp Volume(v), veh/h	131	206	0	0	90	49	515	0	188		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1687	1810	0	1610			
Q Serve(g_s), s	1.5	1.2	0.0	0.0	1.0	1.1	3.9	0.0	1.4			
Cycle Q Clear(g_c), s	1.5	1.2	0.0	0.0	1.0	1.1	3.9	0.0	1.4			
Prop In Lane	1.00		1.00	0.00		0.70	1.00		1.00			
Lane Grp Cap(c), veh/h	404	1743		0	399	195	1639	0	1458			
V/C Ratio(X)	0.32	0.12		0.00	0.23	0.25	0.31	0.00	0.13			
Avail Cap(c_a), veh/h	1482	6267		0	2353	1148	1639	0	1458			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	17.3	9.8	0.0	0.0	17.1	17.2	7.4	0.0	6.8			
Incr Delay (d2), s/veh	0.5	0.0	0.0	0.0	0.3	0.7	0.5	0.0	0.2			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.5	0.3	0.0	0.0	0.3	0.4	0.9	0.0	0.3			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	17.8	9.8	0.0	0.0	17.4	17.8	7.9	0.0	7.0			
LnGrp LOS	B	A			B	B	A		A			
Approach Vol, veh/h		337			139			703				
Approach Delay, s/veh		12.9			17.6			7.7				
Approach LOS		B			B			A				

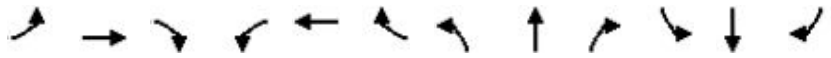
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	18.8	9.4	9.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	5.9	3.2	3.5	3.1
Green Ext Time (p_c), s	2.2	1.4	0.3	0.7

Intersection Summary	
HCM 7th Control Delay, s/veh	10.3
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

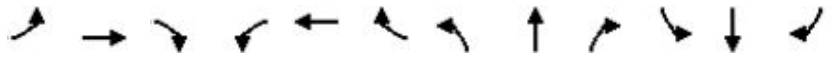


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	390	236	33	591	0	0	0	0	17	0	1
Future Volume (veh/h)	0	390	236	33	591	0	0	0	0	17	0	1
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	429	259	36	649	0				19	0	1
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91				0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	735	440	78	1921	0				605	0	269
Arrive On Green	0.00	0.34	0.34	0.04	0.53	0.00				0.17	0.00	0.17
Sat Flow, veh/h	0	2267	1300	1810	3705	0				3619	0	1610
Grp Volume(v), veh/h	0	356	332	36	649	0				19	0	1
Grp Sat Flow(s),veh/h/ln	0	1805	1666	1810	1805	0				1810	0	1610
Q Serve(g_s), s	0.0	4.9	4.9	0.6	3.1	0.0				0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	4.9	4.9	0.6	3.1	0.0				0.1	0.0	0.0
Prop In Lane	0.00		0.78	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	611	564	78	1921	0				605	0	269
V/C Ratio(X)	0.00	0.58	0.59	0.46	0.34	0.00				0.03	0.00	0.00
Avail Cap(c_a), veh/h	0	1176	1086	393	3680	0				2479	0	1103
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	8.2	8.2	14.0	4.0	0.0				10.4	0.0	10.4
Incr Delay (d2), s/veh	0.0	0.9	1.0	4.2	0.1	0.0				0.0	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.0	0.9	0.2	0.0	0.0				0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.0	9.2	18.1	4.1	0.0				10.5	0.0	10.4
LnGrp LOS		A	A	B	A					B		B
Approach Vol, veh/h		688			685						20	
Approach Delay, s/veh		9.1			4.8						10.5	
Approach LOS		A			A						B	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		5.8	14.6		9.5		20.4					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		2.6	6.9		2.1		5.1					
Green Ext Time (p_c), s		0.0	3.2		0.0		3.9					

Intersection Summary	
HCM 7th Control Delay, s/veh	7.0
HCM 7th LOS	A

Notes
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	398	2	0	409	30	215	0	26	0	0	0
Future Volume (veh/h)	4	398	2	0	409	30	215	0	26	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	5	452	2	0	465	34	244	0	30			
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	12	1594	7	0	927	414	416	0	370			
Arrive On Green	0.01	0.43	0.43	0.00	0.26	0.26	0.23	0.00	0.23			
Sat Flow, veh/h	1810	3686	16	0	3705	1610	1810	0	1610			
Grp Volume(v), veh/h	5	221	233	0	465	34	244	0	30			
Grp Sat Flow(s),veh/h/ln	1810	1805	1897	0	1805	1610	1810	0	1610			
Q Serve(g_s), s	0.1	2.1	2.1	0.0	2.9	0.4	3.2	0.0	0.4			
Cycle Q Clear(g_c), s	0.1	2.1	2.1	0.0	2.9	0.4	3.2	0.0	0.4			
Prop In Lane	1.00		0.01	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	12	781	821	0	927	414	416	0	370			
V/C Ratio(X)	0.41	0.28	0.28	0.00	0.50	0.08	0.59	0.00	0.08			
Avail Cap(c_a), veh/h	1018	2336	2455	0	2031	906	1120	0	996			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	13.2	4.9	4.9	0.0	8.4	7.5	9.1	0.0	8.1			
Incr Delay (d2), s/veh	20.0	0.2	0.2	0.0	0.4	0.1	1.3	0.0	0.1			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.1	0.1	0.0	0.5	0.1	0.6	0.0	0.1			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	33.2	5.1	5.1	0.0	8.9	7.6	10.5	0.0	8.1			
LnGrp LOS	C	A	A		A	A	B		A			
Approach Vol, veh/h		459			499			274				
Approach Delay, s/veh		5.4			8.8			10.2				
Approach LOS		A			A			B				

Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	10.6	16.0	4.7	11.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5	15.0	15.0
Max Q Clear Time (g_c+I1), s	5.2	4.1	2.1	4.9
Green Ext Time (p_c), s	0.9	2.3	0.0	1.9

Intersection Summary	
HCM 7th Control Delay, s/veh	7.8
HCM 7th LOS	A

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	6	0	179	29	3	223
Future Vol, veh/h	6	0	179	29	3	223
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	7	0	195	32	3	242

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	338	113	0	0	226	0
Stage 1	210	-	-	-	-	-
Stage 2	128	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	637	925	-	-	1354	-
Stage 1	810	-	-	-	-	-
Stage 2	890	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	636	925	-	-	1354	-
Mov Cap-2 Maneuver	675	-	-	-	-	-
Stage 1	810	-	-	-	-	-
Stage 2	888	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.39	0	0.1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	675	1354	-
HCM Lane V/C Ratio	-	-	0.01	0.002	-
HCM Ctrl Dly (s/v)	-	-	10.4	7.7	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	4	1	207	15	3	226
Future Vol, veh/h	4	1	207	15	3	226
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	1	225	16	3	246

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	363	121	0	0	241	0
Stage 1	233	-	-	-	-	-
Stage 2	129	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	615	914	-	-	1337	-
Stage 1	790	-	-	-	-	-
Stage 2	889	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	614	914	-	-	1337	-
Mov Cap-2 Maneuver	658	-	-	-	-	-
Stage 1	790	-	-	-	-	-
Stage 2	887	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.21	0	0.1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	697	1337	-
HCM Lane V/C Ratio	-	-	0.008	0.002	-
HCM Ctrl Dly (s/v)	-	-	10.2	7.7	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	13	0	222	52	5	225
Future Vol, veh/h	13	0	222	52	5	225
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	0	241	57	5	245

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	403	149	0	0	298	0
Stage 1	270	-	-	-	-	-
Stage 2	133	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	581	877	-	-	1275	-
Stage 1	757	-	-	-	-	-
Stage 2	885	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	578	877	-	-	1275	-
Mov Cap-2 Maneuver	631	-	-	-	-	-
Stage 1	757	-	-	-	-	-
Stage 2	881	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.84	0	0.17
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	631	1275	-
HCM Lane V/C Ratio	-	-	0.022	0.004	-
HCM Ctrl Dly (s/v)	-	-	10.8	7.8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	4	1	273	15	3	235
Future Vol, veh/h	4	1	273	15	3	235
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	1	297	16	3	255

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	439	157	0	0	313	0
Stage 1	305	-	-	-	-	-
Stage 2	134	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	551	868	-	-	1259	-
Stage 1	727	-	-	-	-	-
Stage 2	884	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	550	868	-	-	1259	-
Mov Cap-2 Maneuver	607	-	-	-	-	-
Stage 1	727	-	-	-	-	-
Stage 2	881	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.62	0	0.1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	646	1259	-
HCM Lane V/C Ratio	-	-	0.008	0.003	-
HCM Ctrl Dly (s/v)	-	-	10.6	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	13	0	287	52	5	234
Future Vol, veh/h	13	0	287	52	5	234
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	0	312	57	5	254

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	478	184	0	0	368	0
Stage 1	340	-	-	-	-	-
Stage 2	138	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	521	833	-	-	1201	-
Stage 1	698	-	-	-	-	-
Stage 2	880	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	519	833	-	-	1201	-
Mov Cap-2 Maneuver	583	-	-	-	-	-
Stage 1	698	-	-	-	-	-
Stage 2	876	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.33	0	0.17
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	583	1201	-
HCM Lane V/C Ratio	-	-	0.024	0.005	-
HCM Ctrl Dly (s/v)	-	-	11.3	8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	3	1	338	15	3	244
Future Vol, veh/h	3	1	338	15	3	244
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	3	1	367	16	3	265

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	515	192	0	0	384	0
Stage 1	376	-	-	-	-	-
Stage 2	139	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	494	824	-	-	1186	-
Stage 1	670	-	-	-	-	-
Stage 2	879	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	493	824	-	-	1186	-
Mov Cap-2 Maneuver	561	-	-	-	-	-
Stage 1	670	-	-	-	-	-
Stage 2	876	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.95	0	0.1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	609	1186	-
HCM Lane V/C Ratio	-	-	0.007	0.003	-
HCM Ctrl Dly (s/v)	-	-	10.9	8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	1.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	89	10	343	116	13	234
Future Vol, veh/h	89	10	343	116	13	234
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	97	11	373	126	14	254

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	591	249	0	0	499	0
Stage 1	436	-	-	-	-	-
Stage 2	155	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	443	757	-	-	1076	-
Stage 1	625	-	-	-	-	-
Stage 2	863	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	437	757	-	-	1076	-
Mov Cap-2 Maneuver	517	-	-	-	-	-
Stage 1	625	-	-	-	-	-
Stage 2	851	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	13.43	0	0.44
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	534	1076	-
HCM Lane V/C Ratio	-	-	0.201	0.013	-
HCM Ctrl Dly (s/v)	-	-	13.4	8.4	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.7	0	-

Intersection	
Int Delay, s/veh	0.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	38	7	452	42	6	317
Future Vol, veh/h	38	7	452	42	6	317
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	41	8	491	46	7	345

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	699	268	0	0	537	0
Stage 1	514	-	-	-	-	-
Stage 2	185	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	378	736	-	-	1041	-
Stage 1	571	-	-	-	-	-
Stage 2	834	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	376	736	-	-	1041	-
Mov Cap-2 Maneuver	468	-	-	-	-	-
Stage 1	571	-	-	-	-	-
Stage 2	829	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	13.06	0	0.16
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	496	1041	-
HCM Lane V/C Ratio	-	-	0.099	0.006	-
HCM Ctrl Dly (s/v)	-	-	13.1	8.5	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Intersection Delay, s/veh	7.6
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	10	39	7	13	43	72
Future Vol, veh/h	10	39	7	13	43	72
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	53	10	18	59	99
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7.3	7.9	7.6
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	43	72	10	39	7	13
LT Vol	43	0	0	0	7	0
Through Vol	0	0	10	0	0	13
RT Vol	0	72	0	39	0	0
Lane Flow Rate	59	99	14	53	10	18
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.084	0.108	0.019	0.062	0.014	0.024
Departure Headway (Hd)	5.159	3.958	4.893	4.19	5.422	4.92
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	690	897	736	860	664	732
Service Time	2.924	1.723	2.593	1.89	3.123	2.621
HCM Lane V/C Ratio	0.086	0.11	0.019	0.062	0.015	0.025
HCM Control Delay, s/veh	8.4	7.2	7.7	7.2	8.2	7.7
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.3	0.4	0.1	0.2	0	0.1

Intersection	
Intersection Delay, s/veh	8.3
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	4	97	0	0	0	0	91	10	11	38	0
Future Vol, veh/h	0	4	97	0	0	0	0	91	10	11	38	0
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	5	129	0	0	0	0	121	13	15	51	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7.8	8.7	8.3
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	0%	100%	0%
Vol Thru, %	90%	100%	100%	0%	0%	100%
Vol Right, %	10%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	101	0	4	97	11	38
LT Vol	0	0	0	0	11	0
Through Vol	91	0	4	0	0	38
RT Vol	10	0	0	97	0	0
Lane Flow Rate	135	0	5	129	15	51
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.184	0	0.007	0.155	0.023	0.072
Departure Headway (Hd)	4.908	5.012	5.012	4.31	5.613	5.111
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	733	0	716	834	639	702
Service Time	2.625	2.727	2.727	2.024	3.334	2.832
HCM Lane V/C Ratio	0.184	0	0.007	0.155	0.023	0.073
HCM Control Delay, s/veh	8.7	7.7	7.8	7.8	8.5	8.2
HCM Lane LOS	A	N	A	A	A	A
HCM 95th-tile Q	0.7	0	0	0.5	0.1	0.2

Intersection	
Int Delay, s/veh	3.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	7	20	86	4	5	19	108	63	3	92	5
Future Vol, veh/h	3	7	20	86	4	5	19	108	63	3	92	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	3	8	22	93	4	5	21	117	68	3	100	5

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	270	336	103	303	305	152	105	0	0	186	0	0
Stage 1	109	109	-	193	193	-	-	-	-	-	-	-
Stage 2	161	227	-	110	112	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	687	588	958	653	612	900	1498	-	-	1401	-	-
Stage 1	901	809	-	813	745	-	-	-	-	-	-	-
Stage 2	846	720	-	900	807	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	667	578	958	620	602	900	1498	-	-	1401	-	-
Mov Cap-2 Maneuver	667	578	-	620	602	-	-	-	-	-	-	-
Stage 1	899	807	-	802	734	-	-	-	-	-	-	-
Stage 2	824	710	-	869	805	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.69	11.84	0.74	0.23
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1498	-	-	800	629	1401	-	-
HCM Lane V/C Ratio	0.014	-	-	0.041	0.164	0.002	-	-
HCM Ctrl Dly (s/v)	7.4	-	-	9.7	11.8	7.6	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.6	0	-	-

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	42	0	11	1	190	80	14	183	1
Future Vol, veh/h	0	0	0	42	0	11	1	190	80	14	183	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	0	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	49	0	13	1	224	94	16	215	1

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	475	569	216	521	522	271	216	0	0	318	0	0
Stage 1	249	249	-	273	273	-	-	-	-	-	-	-
Stage 2	226	320	-	248	249	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	504	435	829	469	462	773	1365	-	-	1254	-	-
Stage 1	760	704	-	737	688	-	-	-	-	-	-	-
Stage 2	781	656	-	760	704	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	488	429	829	462	455	773	1365	-	-	1254	-	-
Mov Cap-2 Maneuver	488	429	-	462	455	-	-	-	-	-	-	-
Stage 1	750	695	-	737	687	-	-	-	-	-	-	-
Stage 2	768	655	-	750	695	-	-	-	-	-	-	-

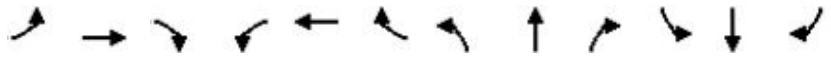
Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0	13.14	0.03	0.56
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1365	-	-	-	505	1254	-	-
HCM Lane V/C Ratio	0.001	-	-	-	0.124	0.013	-	-
HCM Ctrl Dly (s/v)	7.6	-	-	0	13.1	7.9	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	0.4	0	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	97	56	264	40	29	6	98	432	39	9	515	35
Future Volume (veh/h)	97	56	264	40	29	6	98	432	39	9	515	35
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	115	67	314	48	35	7	117	514	46	11	613	42
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	567	519	440	463	420	84	739	877	743	438	877	743
Arrive On Green	0.27	0.27	0.27	0.27	0.27	0.27	0.46	0.46	0.46	0.46	0.46	0.46
Sat Flow, veh/h	1386	1900	1610	1018	1537	307	1533	1900	1610	863	1900	1610
Grp Volume(v), veh/h	115	67	314	48	0	42	117	514	46	11	613	42
Grp Sat Flow(s),veh/h/ln	1386	1900	1610	1018	0	1845	767	1900	1610	863	1900	1610
Q Serve(g_s), s	2.3	0.9	6.0	1.3	0.0	0.6	2.2	6.8	0.5	0.3	8.7	0.5
Cycle Q Clear(g_c), s	2.9	0.9	6.0	2.2	0.0	0.6	10.9	6.8	0.5	7.1	8.7	0.5
Prop In Lane	1.00		1.00	1.00		0.17	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	567	519	440	463	0	504	739	877	743	438	877	743
V/C Ratio(X)	0.20	0.13	0.71	0.10	0.00	0.08	0.16	0.59	0.06	0.03	0.70	0.06
Avail Cap(c_a), veh/h	924	1008	854	725	0	978	1070	1288	1091	625	1288	1091
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	10.2	9.3	11.1	10.1	0.0	9.2	11.6	6.7	5.1	9.4	7.3	5.1
Incr Delay (d2), s/veh	0.2	0.1	2.2	0.1	0.0	0.1	0.1	0.6	0.0	0.0	1.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.3	1.7	0.2	0.0	0.2	0.2	0.9	0.1	0.0	1.2	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	10.4	9.4	13.3	10.2	0.0	9.2	11.7	7.4	5.1	9.4	8.3	5.1
LnGrp LOS	B	A	B	B		A	B	A	A	A	A	A
Approach Vol, veh/h		496			90			677			666	
Approach Delay, s/veh		12.1			9.8			8.0			8.1	
Approach LOS		B			A			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		20.2		13.8		20.2		13.8				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		23.0		18.0		23.0		18.0				
Max Q Clear Time (g_c+I1), s		12.9		8.0		10.7		4.2				
Green Ext Time (p_c), s		2.7		1.3		2.9		0.3				

Intersection Summary												
HCM 7th Control Delay, s/veh			9.2									
HCM 7th LOS			A									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	77	112	94	49	211	200	93	251	70	249	395	124
Future Volume (veh/h)	77	112	94	49	211	200	93	251	70	249	395	124
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	83	120	0	53	227	0	100	270	75	268	425	133
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	138	585		101	512		298	528	144	456	922	278
Arrive On Green	0.08	0.16	0.00	0.06	0.14	0.00	0.08	0.19	0.19	0.13	0.23	0.23
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	3510	2804	764	3510	3953	1191
Grp Volume(v), veh/h	83	120	0	53	227	0	100	172	173	268	370	188
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1755	1805	1763	1755	1729	1686
Q Serve(g_s), s	1.7	1.1	0.0	1.1	2.2	0.0	1.0	3.3	3.4	2.8	3.6	3.7
Cycle Q Clear(g_c), s	1.7	1.1	0.0	1.1	2.2	0.0	1.0	3.3	3.4	2.8	3.6	3.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.43	1.00		0.71
Lane Grp Cap(c), veh/h	138	585		101	512		298	340	332	456	807	393
V/C Ratio(X)	0.60	0.21		0.52	0.44		0.34	0.51	0.52	0.59	0.46	0.48
Avail Cap(c_a), veh/h	303	3208		583	3766		588	1929	1884	1221	4320	2106
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.4	14.1	0.0	17.8	15.3	0.0	16.7	14.1	14.2	15.9	12.8	12.8
Incr Delay (d2), s/veh	4.2	0.2	0.0	4.1	0.6	0.0	0.7	1.2	1.3	1.2	0.4	0.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.3	0.0	0.5	0.7	0.0	0.3	1.1	1.1	0.9	0.9	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	21.5	14.3	0.0	21.9	15.9	0.0	17.4	15.3	15.5	17.1	13.2	13.8
LnGrp LOS	C	B		C	B		B	B	B	B	B	B
Approach Vol, veh/h		203			280			445			826	
Approach Delay, s/veh		17.2			17.0			15.8			14.6	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.5	11.8	6.7	10.8	7.8	13.6	7.5	10.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	4.8	5.4	3.1	3.1	3.0	5.7	3.7	4.2
Green Ext Time (p_c), s	0.6	1.8	0.0	0.6	0.1	3.3	0.0	1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	15.6
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

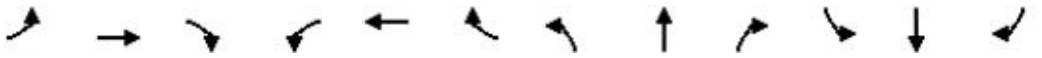
Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	2	2	2	412	533	5
Future Vol, veh/h	2	2	2	412	533	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	25	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2	2	2	468	606	6

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	847	306	611	0	-	0
Stage 1	609	-	-	-	-	-
Stage 2	239	-	-	-	-	-
Critical Hdwy	6.8	6.9	4.1	-	-	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	305	696	977	-	-	-
Stage 1	511	-	-	-	-	-
Stage 2	785	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	304	696	977	-	-	-
Mov Cap-2 Maneuver	304	-	-	-	-	-
Stage 1	510	-	-	-	-	-
Stage 2	785	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	13.56	0.06	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	17	-	304	696	-	-
HCM Lane V/C Ratio	0.002	-	0.007	0.003	-	-
HCM Ctrl Dly (s/v)	8.7	0	16.9	10.2	-	-
HCM Lane LOS	A	A	C	B	-	-
HCM 95th %tile Q(veh)	0	-	0	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	16	0	20	22	1	3	48	395	5	1	516	18
Future Volume (veh/h)	16	0	20	22	1	3	48	395	5	1	516	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	18	0	22	25	1	3	54	444	6	1	580	20
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	404	0	131	397	0	131	653	1508	20	722	1472	51
Arrive On Green	0.08	0.00	0.08	0.08	0.08	0.08	0.41	0.41	0.41	0.41	0.41	0.41
Sat Flow, veh/h	0	0	1610	0	0	1610	832	3647	49	955	3560	123
Grp Volume(v), veh/h	18	0	22	26	0	3	54	220	230	1	294	306
Grp Sat Flow(s),veh/h/ln	0	0	1610	0	0	1610	832	1805	1891	955	1805	1878
Q Serve(g_s), s	0.0	0.0	0.2	0.0	0.0	0.0	0.9	1.4	1.4	0.0	2.0	2.0
Cycle Q Clear(g_c), s	1.4	0.0	0.2	1.4	0.0	0.0	2.9	1.4	1.4	1.5	2.0	2.0
Prop In Lane	1.00		1.00	0.96		1.00	1.00		0.03	1.00		0.07
Lane Grp Cap(c), veh/h	404	0	131	397	0	131	653	746	782	722	746	776
V/C Ratio(X)	0.04	0.00	0.17	0.07	0.00	0.02	0.08	0.29	0.29	0.00	0.39	0.39
Avail Cap(c_a), veh/h	1738	0	1628	1722	0	1628	1150	1825	1912	1292	1825	1898
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	8.9	0.0	7.6	8.9	0.0	7.5	4.7	3.5	3.5	4.0	3.7	3.7
Incr Delay (d2), s/veh	0.0	0.0	0.6	0.1	0.0	0.1	0.1	0.2	0.2	0.0	0.3	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	8.9	0.0	8.2	9.0	0.0	7.6	4.7	3.7	3.7	4.0	4.0	4.0
LnGrp LOS	A		A	A		A	A	A	A	A	A	A
Approach Vol, veh/h		40			29			504			601	
Approach Delay, s/veh		8.5			8.8			3.8			4.0	
Approach LOS		A			A			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		11.9		5.9		11.9		5.9				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.0		18.0		18.0		18.0				
Max Q Clear Time (g_c+I1), s		4.9		3.4		4.0		3.4				
Green Ext Time (p_c), s		2.5		0.1		3.1		0.1				

Intersection Summary												
HCM 7th Control Delay, s/veh			4.2									
HCM 7th LOS			A									

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	3	108	104	446	548	10
Future Volume (veh/h)	3	108	104	446	548	10
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	3	114	112	480	589	11
Peak Hour Factor	0.93	0.95	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	214	190	631	1625	1632	30
Arrive On Green	0.12	0.12	0.45	0.45	0.45	0.45
Sat Flow, veh/h	1810	1610	832	3705	3720	68
Grp Volume(v), veh/h	3	114	112	480	293	307
Grp Sat Flow(s),veh/h/ln	1810	1610	832	1805	1805	1888
Q Serve(g_s), s	0.0	1.4	2.1	1.8	2.2	2.2
Cycle Q Clear(g_c), s	0.0	1.4	4.4	1.8	2.2	2.2
Prop In Lane	1.00	1.00	1.00			0.04
Lane Grp Cap(c), veh/h	214	190	631	1625	812	850
V/C Ratio(X)	0.01	0.60	0.18	0.30	0.36	0.36
Avail Cap(c_a), veh/h	1563	1391	975	3118	1559	1631
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	8.1	8.7	5.2	3.6	3.8	3.8
Incr Delay (d2), s/veh	0.0	3.0	0.1	0.1	0.3	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.4	0.1	0.1	0.2	0.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	8.1	11.7	5.3	3.7	4.0	4.0
LnGrp LOS	A	B	A	A	A	A
Approach Vol, veh/h	117			592	600	
Approach Delay, s/veh	11.6			4.0	4.0	
Approach LOS	B			A	A	

Timer - Assigned Phs	2		4		6
Phs Duration (G+Y+Rc), s	13.9		7.0		13.9
Change Period (Y+Rc), s	4.5		4.5		4.5
Max Green Setting (Gmax), s	18.0		18.0		18.0
Max Q Clear Time (g_c+I1), s	6.4		3.4		4.2
Green Ext Time (p_c), s	3.0		0.3		3.1

Intersection Summary		
HCM 7th Control Delay, s/veh		4.7
HCM 7th LOS		A

Intersection	
Int Delay, s/veh	2.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	6	706	15	188	583	28	3	0	85	8	0	3
Future Vol, veh/h	6	706	15	188	583	28	3	0	85	8	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	0	-	-	-	-	25	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	793	17	211	655	31	3	0	96	9	0	3

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	687	0	0	810	0	0	1565	1924	405	1503	1917	343
Stage 1	-	-	-	-	-	-	815	815	-	1093	1093	-
Stage 2	-	-	-	-	-	-	750	1109	-	410	824	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	917	-	-	825	-	-	77	68	601	85	68	659
Stage 1	-	-	-	-	-	-	342	394	-	232	293	-
Stage 2	-	-	-	-	-	-	374	288	-	595	390	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	917	-	-	825	-	-	56	50	601	53	50	659
Mov Cap-2 Maneuver	-	-	-	-	-	-	56	50	-	53	50	-
Stage 1	-	-	-	-	-	-	339	391	-	173	218	-
Stage 2	-	-	-	-	-	-	277	214	-	497	387	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0.07	2.56	14.19	66.33
HCM LOS			B	F

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	56	601	917	-	-	825	-	-	71
HCM Lane V/C Ratio	0.06	0.159	0.007	-	-	0.256	-	-	0.175
HCM Ctrl Dly (s/v)	72.8	12.1	9	-	-	10.9	-	-	66.3
HCM Lane LOS	F	B	A	-	-	B	-	-	F
HCM 95th %tile Q(veh)	0.2	0.6	0	-	-	1	-	-	0.6

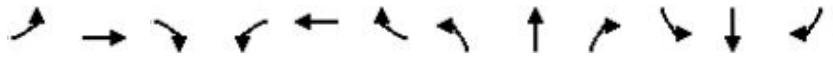
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	767	10	110	702	186	13	2	65	240	4	26
Future Volume (veh/h)	21	767	10	110	702	186	13	2	65	240	4	26
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	23	825	11	118	755	200	14	2	70	261	0	28
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	49	1230	16	155	1619	424	177	186	158	458	0	204
Arrive On Green	0.03	0.34	0.34	0.09	0.40	0.40	0.10	0.10	0.10	0.13	0.00	0.13
Sat Flow, veh/h	1810	3648	49	1810	4090	1072	1810	1900	1610	3619	0	1610
Grp Volume(v), veh/h	23	408	428	118	637	318	14	2	70	261	0	28
Grp Sat Flow(s),veh/h/ln	1810	1805	1891	1810	1729	1704	1810	1900	1610	1810	0	1610
Q Serve(g_s), s	0.6	9.9	9.9	3.3	7.0	7.1	0.4	0.0	2.1	3.5	0.0	0.8
Cycle Q Clear(g_c), s	0.6	9.9	9.9	3.3	7.0	7.1	0.4	0.0	2.1	3.5	0.0	0.8
Prop In Lane	1.00		0.03	1.00		0.63	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	49	609	638	155	1369	674	177	186	158	458	0	204
V/C Ratio(X)	0.47	0.67	0.67	0.76	0.47	0.47	0.08	0.01	0.44	0.57	0.00	0.14
Avail Cap(c_a), veh/h	372	1220	1278	443	2472	1218	833	875	741	2233	0	994
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	24.5	14.5	14.5	22.8	11.4	11.5	20.9	20.8	21.7	21.0	0.0	19.8
Incr Delay (d2), s/veh	6.7	1.3	1.2	7.4	0.2	0.5	0.2	0.0	2.0	1.1	0.0	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	3.4	3.6	1.5	2.1	2.1	0.2	0.0	0.8	1.4	0.0	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	31.2	15.8	15.7	30.2	11.7	12.0	21.1	20.8	23.7	22.1	0.0	20.1
LnGrp LOS	C	B	B	C	B	B	C	C	C	C		C
Approach Vol, veh/h		859			1073			86			289	
Approach Delay, s/veh		16.2			13.8			23.2			21.9	
Approach LOS		B			B			C			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	9.5	8.9	21.7	11.0	5.9	24.7
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	23.5	12.5	34.5	31.5	10.5	36.5
Max Q Clear Time (g_c+I1), s	4.1	5.3	11.9	5.5	2.6	9.1
Green Ext Time (p_c), s	0.2	0.1	5.0	1.0	0.0	6.7

Intersection Summary	
HCM 7th Control Delay, s/veh	16.0
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.



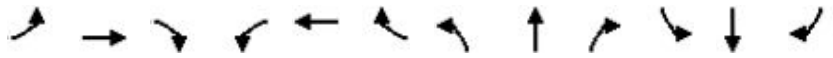
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑	↱		↑↑	↱				↰↰		↱
Traffic Volume (veh/h)	0	502	567	0	546	194	0	0	0	522	0	507
Future Volume (veh/h)	0	502	567	0	546	194	0	0	0	522	0	507
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	540	0	0	587	0				561	0	545
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93				0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1069		0	1069					1558	0	715
Arrive On Green	0.00	0.30	0.00	0.00	0.30	0.00				0.44	0.00	0.44
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	540	0	0	587	0				561	0	545
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	4.3	0.0	0.0	4.7	0.0				3.7	0.0	9.9
Cycle Q Clear(g_c), s	0.0	4.3	0.0	0.0	4.7	0.0				3.7	0.0	9.9
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1069		0	1069					1558	0	715
V/C Ratio(X)	0.00	0.50		0.00	0.55					0.36	0.00	0.76
Avail Cap(c_a), veh/h	0	2658		0	2658					2585	0	1186
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	10.1	0.0	0.0	10.2	0.0				6.4	0.0	8.1
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.0	0.4	0.0				0.1	0.0	1.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.1	0.0	0.0	1.3	0.0				0.5	0.0	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	10.5	0.0	0.0	10.7	0.0				6.5	0.0	9.8
LnGrp LOS		B			B					A		A
Approach Vol, veh/h		540			587						1106	
Approach Delay, s/veh		10.5			10.7						8.1	
Approach LOS		B			B						A	

Timer - Assigned Phs		4		6		8			
Phs Duration (G+Y+Rc), s		14.8		19.9		14.8			
Change Period (Y+Rc), s		4.5		4.5		4.5			
Max Green Setting (Gmax), s		25.5		25.5		25.5			
Max Q Clear Time (g_c+I1), s		6.3		11.9		6.7			
Green Ext Time (p_c), s		3.2		3.5		3.5			

Intersection Summary									
HCM 7th Control Delay, s/veh		9.4							
HCM 7th LOS		A							

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	294	390	254	0	173	72	379	159	220	47	0	184
Future Volume (veh/h)	294	390	254	0	173	72	379	159	220	47	0	184
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	327	433	0	0	192	80	299	348	244	52	0	204
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	528	1967		0	481	184	766	804	1363	0	0	0
Arrive On Green	0.15	0.38	0.00	0.00	0.13	0.13	0.42	0.42	0.42	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	3864	1411	1810	1900	3220		0	
Grp Volume(v), veh/h	327	433	0	0	179	93	299	348	244		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1646	1810	1900	1610			
Q Serve(g_s), s	4.0	2.6	0.0	0.0	2.2	2.4	5.2	5.9	2.2			
Cycle Q Clear(g_c), s	4.0	2.6	0.0	0.0	2.2	2.4	5.2	5.9	2.2			
Prop In Lane	1.00		1.00	0.00		0.86	1.00		1.00			
Lane Grp Cap(c), veh/h	528	1967		0	451	214	766	804	1363			
V/C Ratio(X)	0.62	0.22		0.00	0.40	0.44	0.39	0.43	0.18			
Avail Cap(c_a), veh/h	1386	5859		0	2199	1047	766	804	1363			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	18.2	9.6	0.0	0.0	18.2	18.3	9.1	9.3	8.2			
Incr Delay (d2), s/veh	1.2	0.1	0.0	0.0	0.6	1.4	1.5	1.7	0.3			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.4	0.7	0.0	0.0	0.8	0.8	1.5	1.8	0.5			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	19.3	9.6	0.0	0.0	18.7	19.7	10.6	11.0	8.5			
LnGrp LOS	B	A			B	B	B	B	A			
Approach Vol, veh/h		760			272			891				
Approach Delay, s/veh		13.8			19.1			10.2				
Approach LOS		B			B			B				

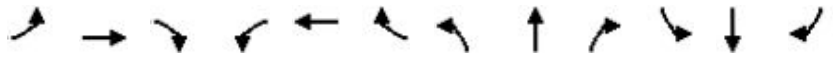
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	21.8	11.4	10.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	7.9	4.6	6.0	4.4
Green Ext Time (p_c), s	2.9	3.0	0.9	1.6

Intersection Summary	
HCM 7th Control Delay, s/veh	12.9
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

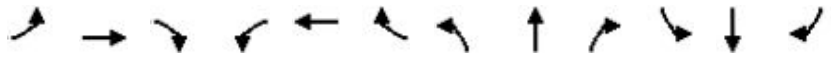


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	369	242	36	727	0	0	0	0	29	6	4
Future Volume (veh/h)	0	369	242	36	727	0	0	0	0	29	6	4
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	388	255	38	765	0				35	0	4
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	684	444	82	1892	0				615	0	274
Arrive On Green	0.00	0.33	0.33	0.05	0.52	0.00				0.17	0.00	0.17
Sat Flow, veh/h	0	2193	1362	1810	3705	0				3619	0	1610
Grp Volume(v), veh/h	0	333	310	38	765	0				35	0	4
Grp Sat Flow(s),veh/h/ln	0	1805	1655	1810	1805	0				1810	0	1610
Q Serve(g_s), s	0.0	4.5	4.6	0.6	3.8	0.0				0.2	0.0	0.1
Cycle Q Clear(g_c), s	0.0	4.5	4.6	0.6	3.8	0.0				0.2	0.0	0.1
Prop In Lane	0.00		0.82	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	588	539	82	1892	0				615	0	274
V/C Ratio(X)	0.00	0.57	0.57	0.46	0.40	0.00				0.06	0.00	0.01
Avail Cap(c_a), veh/h	0	1197	1097	400	3743	0				2522	0	1122
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	8.2	8.2	13.7	4.2	0.0				10.2	0.0	10.2
Incr Delay (d2), s/veh	0.0	0.9	1.0	4.0	0.1	0.0				0.0	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.9	0.9	0.2	0.0	0.0				0.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.1	9.2	17.7	4.4	0.0				10.3	0.0	10.2
LnGrp LOS		A	A	B	A					B		B
Approach Vol, veh/h		643			803						39	
Approach Delay, s/veh		9.1			5.0						10.3	
Approach LOS		A			A						B	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		5.8	14.1		9.5		19.9					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		2.6	6.6		2.2		5.8					
Green Ext Time (p_c), s		0.0	3.0		0.1		4.7					

Intersection Summary	
HCM 7th Control Delay, s/veh	6.9
HCM 7th LOS	A

Notes
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	390	2	0	467	26	297	3	81	0	0	0
Future Volume (veh/h)	4	390	2	0	467	26	297	3	81	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	4	398	2	0	477	27	303	3	83			
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	10	1534	8	0	911	406	476	5	428			
Arrive On Green	0.01	0.42	0.42	0.00	0.25	0.25	0.27	0.27	0.27			
Sat Flow, veh/h	1810	3683	19	0	3705	1610	1793	18	1610			
Grp Volume(v), veh/h	4	195	205	0	477	27	306	0	83			
Grp Sat Flow(s),veh/h/ln	1810	1805	1897	0	1805	1610	1810	0	1610			
Q Serve(g_s), s	0.1	2.0	2.0	0.0	3.2	0.4	4.2	0.0	1.1			
Cycle Q Clear(g_c), s	0.1	2.0	2.0	0.0	3.2	0.4	4.2	0.0	1.1			
Prop In Lane	1.00		0.01	0.00		1.00	0.99		1.00			
Lane Grp Cap(c), veh/h	10	752	790	0	911	406	481	0	428			
V/C Ratio(X)	0.40	0.26	0.26	0.00	0.52	0.07	0.64	0.00	0.19			
Avail Cap(c_a), veh/h	958	2198	2309	0	1911	852	1054	0	938			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	14.0	5.4	5.4	0.0	9.1	8.1	9.2	0.0	8.1			
Incr Delay (d2), s/veh	24.4	0.2	0.2	0.0	0.5	0.1	1.4	0.0	0.2			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.2	0.2	0.0	0.6	0.1	0.8	0.0	0.2			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	38.5	5.6	5.6	0.0	9.6	8.1	10.6	0.0	8.3			
LnGrp LOS	D	A	A		A	A	B		A			
Approach Vol, veh/h		404			504			389				
Approach Delay, s/veh		5.9			9.5			10.1				
Approach LOS		A			A			B				

Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	12.0	16.3	4.7	11.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5	15.0	15.0
Max Q Clear Time (g_c+I1), s	6.2	4.0	2.1	5.2
Green Ext Time (p_c), s	1.3	2.0	0.0	1.9

Intersection Summary	
HCM 7th Control Delay, s/veh	8.6
HCM 7th LOS	A

Intersection	
Int Delay, s/veh	0.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	23	3	268	15	2	223
Future Vol, veh/h	23	3	268	15	2	223
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	25	3	291	16	2	242

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	425	154	0	0	308	0
Stage 1	299	-	-	-	-	-
Stage 2	126	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	563	871	-	-	1264	-
Stage 1	732	-	-	-	-	-
Stage 2	893	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	562	871	-	-	1264	-
Mov Cap-2 Maneuver	615	-	-	-	-	-
Stage 1	732	-	-	-	-	-
Stage 2	891	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.92	0	0.07
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	637	1264	-
HCM Lane V/C Ratio	-	-	0.044	0.002	-
HCM Ctrl Dly (s/v)	-	-	10.9	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	2	281	8	1	245
Future Vol, veh/h	12	2	281	8	1	245
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	13	2	305	9	1	266

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	445	157	0	0	314	0
Stage 1	310	-	-	-	-	-
Stage 2	135	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	547	867	-	-	1258	-
Stage 1	723	-	-	-	-	-
Stage 2	883	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	546	867	-	-	1258	-
Mov Cap-2 Maneuver	604	-	-	-	-	-
Stage 1	723	-	-	-	-	-
Stage 2	882	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.84	0	0.03
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	632	1258	-
HCM Lane V/C Ratio	-	-	0.024	0.001	-
HCM Ctrl Dly (s/v)	-	-	10.8	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	42	4	285	27	2	255
Future Vol, veh/h	42	4	285	27	2	255
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	46	4	310	29	2	277

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	467	170	0	0	339	0
Stage 1	324	-	-	-	-	-
Stage 2	143	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	529	851	-	-	1231	-
Stage 1	711	-	-	-	-	-
Stage 2	875	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	528	851	-	-	1231	-
Mov Cap-2 Maneuver	591	-	-	-	-	-
Stage 1	711	-	-	-	-	-
Stage 2	874	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.46	0	0.06
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	607	1231	-
HCM Lane V/C Ratio	-	-	0.082	0.002	-
HCM Ctrl Dly (s/v)	-	-	11.5	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	2	310	7	2	295
Future Vol, veh/h	12	2	310	7	2	295
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	13	2	337	8	2	321

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	505	172	0	0	345	0
Stage 1	341	-	-	-	-	-
Stage 2	165	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	501	848	-	-	1226	-
Stage 1	698	-	-	-	-	-
Stage 2	854	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	500	848	-	-	1226	-
Mov Cap-2 Maneuver	572	-	-	-	-	-
Stage 1	698	-	-	-	-	-
Stage 2	852	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.16	0	0.05
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	600	1226	-
HCM Lane V/C Ratio	-	-	0.025	0.002	-
HCM Ctrl Dly (s/v)	-	-	11.2	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	42	4	313	26	2	305
Future Vol, veh/h	42	4	313	26	2	305
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	46	4	340	28	2	332

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	524	184	0	0	368	0
Stage 1	354	-	-	-	-	-
Stage 2	170	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	488	833	-	-	1201	-
Stage 1	687	-	-	-	-	-
Stage 2	848	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	487	833	-	-	1201	-
Mov Cap-2 Maneuver	562	-	-	-	-	-
Stage 1	687	-	-	-	-	-
Stage 2	847	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.82	0	0.05
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	578	1201	-
HCM Lane V/C Ratio	-	-	0.086	0.002	-
HCM Ctrl Dly (s/v)	-	-	11.8	8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	2	337	8	1	346
Future Vol, veh/h	12	2	337	8	1	346
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	13	2	366	9	1	376

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	561	188	0	0	375	0
Stage 1	371	-	-	-	-	-
Stage 2	190	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	463	829	-	-	1195	-
Stage 1	674	-	-	-	-	-
Stage 2	829	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	462	829	-	-	1195	-
Mov Cap-2 Maneuver	544	-	-	-	-	-
Stage 1	674	-	-	-	-	-
Stage 2	828	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.46	0	0.02
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	573	1195	-
HCM Lane V/C Ratio	-	-	0.027	0.001	-
HCM Ctrl Dly (s/v)	-	-	11.5	8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	2.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	119	12	333	112	13	345
Future Vol, veh/h	119	12	333	112	13	345
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	129	13	362	122	14	375

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	639	242	0	0	484	0
Stage 1	423	-	-	-	-	-
Stage 2	216	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	413	765	-	-	1090	-
Stage 1	635	-	-	-	-	-
Stage 2	805	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	408	765	-	-	1090	-
Mov Cap-2 Maneuver	503	-	-	-	-	-
Stage 1	635	-	-	-	-	-
Stage 2	795	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	14.53	0	0.3
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	519	1090	-
HCM Lane V/C Ratio	-	-	0.274	0.013	-
HCM Ctrl Dly (s/v)	-	-	14.5	8.3	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	1.1	0	-

Intersection	
Int Delay, s/veh	0.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	44	8	437	45	9	455
Future Vol, veh/h	44	8	437	45	9	455
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	48	9	475	49	10	495

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	766	262	0	0	524	0
Stage 1	499	-	-	-	-	-
Stage 2	267	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	343	743	-	-	1053	-
Stage 1	581	-	-	-	-	-
Stage 2	760	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	340	743	-	-	1053	-
Mov Cap-2 Maneuver	449	-	-	-	-	-
Stage 1	581	-	-	-	-	-
Stage 2	753	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	13.54	0	0.16
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	478	1053	-
HCM Lane V/C Ratio	-	-	0.118	0.009	-
HCM Ctrl Dly (s/v)	-	-	13.5	8.5	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.4	0	-

Intersection	
Intersection Delay, s/veh	7.4
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	22	47	8	25	28	54
Future Vol, veh/h	22	47	8	25	28	54
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	23	49	8	26	29	57
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7.2	7.7	7.4
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	28	54	22	47	8	25
LT Vol	28	0	0	0	8	0
Through Vol	0	0	22	0	0	25
RT Vol	0	54	0	47	0	0
Lane Flow Rate	29	57	23	49	8	26
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.042	0.063	0.03	0.055	0.012	0.034
Departure Headway (Hd)	5.179	3.978	4.668	3.967	5.189	4.688
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	687	891	761	894	685	757
Service Time	2.945	1.744	2.432	1.73	2.957	2.456
HCM Lane V/C Ratio	0.042	0.064	0.03	0.055	0.012	0.034
HCM Control Delay, s/veh	8.2	7	7.6	7	8	7.6
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.1	0.2	0.1	0.2	0	0.1

Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	11	0	84	0	0	0	0	72	28	25	43	0
Future Vol, veh/h	11	0	84	0	0	0	0	72	28	25	43	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	12	0	88	0	0	0	0	76	29	26	45	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7.5	8.2	8.1
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	100%	0%	0%	100%	0%
Vol Thru, %	72%	0%	100%	0%	0%	100%
Vol Right, %	28%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	100	11	0	84	25	43
LT Vol	0	11	0	0	25	0
Through Vol	72	0	0	0	0	43
RT Vol	28	0	0	84	0	0
Lane Flow Rate	105	12	0	88	26	45
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.138	0.018	0	0.104	0.04	0.062
Departure Headway (Hd)	4.708	5.443	4.941	4.239	5.46	4.959
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	764	660	0	848	658	725
Service Time	2.42	3.154	2.652	1.95	3.175	2.673
HCM Lane V/C Ratio	0.137	0.018	0	0.104	0.04	0.062
HCM Control Delay, s/veh	8.2	8.3	7.7	7.4	8.4	8
HCM Lane LOS	A	A	N	A	A	A
HCM 95th-tile Q	0.5	0.1	0	0.3	0.1	0.2

Intersection	
Int Delay, s/veh	5.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	18	45	8	42	42	16	3	52	18	20	90	17
Future Vol, veh/h	18	45	8	42	42	16	3	52	18	20	90	17
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	19	47	8	44	44	17	3	55	19	21	95	18

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	229	226	104	231	225	64	113	0	0	74	0	0
Stage 1	146	146	-	71	71	-	-	-	-	-	-	-
Stage 2	83	80	-	161	155	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	730	677	957	728	677	1006	1489	-	-	1539	-	-
Stage 1	862	780	-	944	840	-	-	-	-	-	-	-
Stage 2	930	832	-	846	773	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	661	666	957	661	667	1006	1489	-	-	1539	-	-
Mov Cap-2 Maneuver	661	666	-	661	667	-	-	-	-	-	-	-
Stage 1	850	770	-	942	838	-	-	-	-	-	-	-
Stage 2	864	831	-	776	763	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.87	11.03	0.31	1.16
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1489	-	-	688	702	1539	-	-
HCM Lane V/C Ratio	0.002	-	-	0.109	0.15	0.014	-	-
HCM Ctrl Dly (s/v)	7.4	-	-	10.9	11	7.4	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.4	0.5	0	-	-

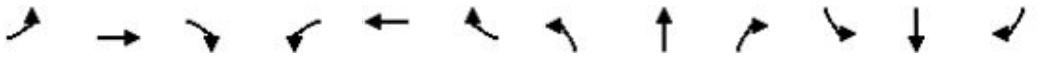
Intersection	
Int Delay, s/veh	2.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	3	92	0	0	2	72	76	0	147	0
Future Vol, veh/h	0	0	3	92	0	0	2	72	76	0	147	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	0	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	3	97	0	0	2	76	80	0	155	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	235	315	155	275	275	116	155	0	0	156	0	0
Stage 1	155	155	-	120	120	-	-	-	-	-	-	-
Stage 2	80	160	-	155	155	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	724	604	896	682	636	942	1438	-	-	1437	-	-
Stage 1	852	773	-	889	800	-	-	-	-	-	-	-
Stage 2	934	769	-	852	773	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	723	603	896	678	635	942	1438	-	-	1437	-	-
Mov Cap-2 Maneuver	723	603	-	678	635	-	-	-	-	-	-	-
Stage 1	852	773	-	888	799	-	-	-	-	-	-	-
Stage 2	932	768	-	849	773	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.03	11.19	0.1	0
HCM LOS	A	B		

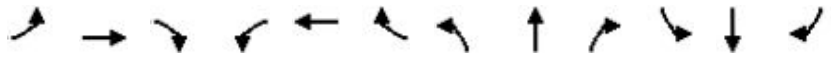
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1438	-	-	896	678	1437	-	-
HCM Lane V/C Ratio	0.001	-	-	0.004	0.143	-	-	-
HCM Ctrl Dly (s/v)	7.5	-	-	9	11.2	0	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.5	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	15	13	87	30	61	71	346	455	13	24	301	94
Future Volume (veh/h)	15	13	87	30	61	71	346	455	13	24	301	94
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	16	14	92	32	64	75	364	479	14	25	317	99
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	319	278	235	411	116	136	1379	1082	917	617	1082	917
Arrive On Green	0.15	0.15	0.15	0.15	0.15	0.15	0.57	0.57	0.57	0.57	0.57	0.57
Sat Flow, veh/h	1270	1900	1610	1308	797	934	1912	1900	1610	918	1900	1610
Grp Volume(v), veh/h	16	14	92	32	0	139	364	479	14	25	317	99
Grp Sat Flow(s),veh/h/ln	1270	1900	1610	1308	0	1732	956	1900	1610	918	1900	1610
Q Serve(g_s), s	0.4	0.2	1.6	0.7	0.0	2.4	3.8	4.6	0.1	0.5	2.7	0.9
Cycle Q Clear(g_c), s	2.7	0.2	1.6	0.9	0.0	2.4	6.6	4.6	0.1	5.1	2.7	0.9
Prop In Lane	1.00		1.00	1.00		0.54	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	319	278	235	411	0	253	1379	1082	917	617	1082	917
V/C Ratio(X)	0.05	0.05	0.39	0.08	0.00	0.55	0.26	0.44	0.02	0.04	0.29	0.11
Avail Cap(c_a), veh/h	856	1082	917	964	0	986	1379	1082	917	617	1082	917
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	13.8	11.6	12.2	12.0	0.0	12.5	5.2	3.9	3.0	5.4	3.5	3.1
Incr Delay (d2), s/veh	0.1	0.1	1.1	0.1	0.0	1.9	0.5	1.3	0.0	0.1	0.7	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.1	0.5	0.2	0.0	0.8	0.2	0.4	0.0	0.0	0.2	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	13.9	11.7	13.3	12.1	0.0	14.4	5.7	5.2	3.0	5.5	4.2	3.4
LnGrp LOS	B	B	B	B		B	A	A	A	A	A	A
Approach Vol, veh/h		122			171			857			441	
Approach Delay, s/veh		13.2			14.0			5.4			4.1	
Approach LOS		B			B			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		22.5		9.1		22.5		9.1				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.0		18.0		18.0		18.0				
Max Q Clear Time (g_c+I1), s		8.6		4.7		7.1		4.4				
Green Ext Time (p_c), s		3.3		0.3		1.5		0.6				

Intersection Summary												
HCM 7th Control Delay, s/veh			6.5									
HCM 7th LOS			A									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	114	176	456	40	117	269	350	461	40	158	212	91
Future Volume (veh/h)	114	176	456	40	117	269	350	461	40	158	212	91
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	120	185	0	42	123	0	368	485	42	166	223	96
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	164	593		84	432		519	828	72	364	738	292
Arrive On Green	0.09	0.16	0.00	0.05	0.12	0.00	0.15	0.25	0.25	0.10	0.20	0.20
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	3510	3362	290	3510	3651	1447
Grp Volume(v), veh/h	120	185	0	42	123	0	368	260	267	166	210	109
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1755	1805	1848	1755	1729	1640
Q Serve(g_s), s	2.6	1.8	0.0	0.9	1.3	0.0	4.1	5.2	5.2	1.8	2.1	2.3
Cycle Q Clear(g_c), s	2.6	1.8	0.0	0.9	1.3	0.0	4.1	5.2	5.2	1.8	2.1	2.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.16	1.00		0.88
Lane Grp Cap(c), veh/h	164	593		84	432		519	445	455	364	699	331
V/C Ratio(X)	0.73	0.31		0.50	0.28		0.71	0.58	0.59	0.46	0.30	0.33
Avail Cap(c_a), veh/h	287	3040		552	3569		557	1828	1872	1157	4094	1941
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	18.1	15.1	0.0	19.1	16.4	0.0	16.6	13.6	13.6	17.3	13.9	14.0
Incr Delay (d2), s/veh	6.1	0.3	0.0	4.6	0.4	0.0	3.8	1.2	1.2	0.9	0.2	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.6	0.0	0.4	0.4	0.0	1.5	1.6	1.6	0.6	0.6	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	24.2	15.4	0.0	23.6	16.8	0.0	20.5	14.8	14.8	18.2	14.1	14.5
LnGrp LOS	C	B		C	B		C	B	B	B	B	B
Approach Vol, veh/h		305			165			895			485	
Approach Delay, s/veh		18.8			18.5			17.1			15.6	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.7	14.6	6.4	11.2	10.6	12.8	8.2	9.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	41.5	12.5	34.5	6.5	48.5	6.5	40.5
Max Q Clear Time (g_c+I1), s	3.8	7.2	2.9	3.8	6.1	4.3	4.6	3.3
Green Ext Time (p_c), s	0.3	2.9	0.0	1.0	0.1	1.8	0.0	0.7

Intersection Summary	
HCM 7th Control Delay, s/veh	17.1
HCM 7th LOS	B

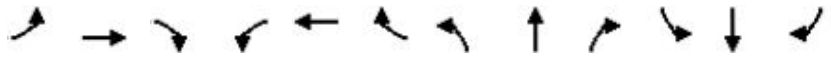
Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	16	1	42	2	0	0	51	796	20	9	519	35
Future Volume (veh/h)	16	1	42	2	0	0	51	796	20	9	519	35
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	17	1	44	2	0	0	54	838	21	9	546	37
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	205	9	91	196	0	91	754	1481	1255	527	2675	181
Arrive On Green	0.06	0.06	0.06	0.06	0.00	0.00	0.78	0.78	0.78	0.78	0.78	0.78
Sat Flow, veh/h	1378	152	1610	1155	0	1610	845	1900	1610	653	3431	232
Grp Volume(v), veh/h	18	0	44	2	0	0	54	838	21	9	287	296
Grp Sat Flow(s),veh/h/ln	1530	0	1610	1155	0	1610	845	1900	1610	653	1805	1858
Q Serve(g_s), s	0.0	0.0	1.5	0.1	0.0	0.0	1.0	9.6	0.2	0.3	2.3	2.3
Cycle Q Clear(g_c), s	0.5	0.0	1.5	0.6	0.0	0.0	3.3	9.6	0.2	9.9	2.3	2.3
Prop In Lane	0.94		1.00	1.00		1.00	1.00		1.00	1.00		0.12
Lane Grp Cap(c), veh/h	214	0	91	196	0	91	754	1481	1255	527	1407	1449
V/C Ratio(X)	0.08	0.00	0.48	0.01	0.00	0.00	0.07	0.57	0.02	0.02	0.20	0.20
Avail Cap(c_a), veh/h	609	0	527	570	0	527	754	1481	1255	527	1407	1449
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	0.96	0.96	0.96	1.00	1.00	1.00
Uniform Delay (d), s/veh	24.7	0.0	25.2	25.0	0.0	0.0	2.0	2.4	1.4	4.3	1.6	1.6
Incr Delay (d2), s/veh	0.2	0.0	3.9	0.0	0.0	0.0	0.2	1.5	0.0	0.1	0.3	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.6	0.0	0.0	0.0	0.1	1.4	0.0	0.0	0.3	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	24.9	0.0	29.1	25.0	0.0	0.0	2.2	3.9	1.4	4.4	1.9	1.9
LnGrp LOS	C		C	C			A	A	A	A	A	A
Approach Vol, veh/h		62			2			913			592	
Approach Delay, s/veh		27.8			25.0			3.7			1.9	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		47.4		7.6		47.4		7.6				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		28.0		18.0		28.0		18.0				
Max Q Clear Time (g_c+I1), s		11.6		3.5		11.9		2.6				
Green Ext Time (p_c), s		6.2		0.1		3.3		0.0				

Intersection Summary												
HCM 7th Control Delay, s/veh			4.0									
HCM 7th LOS			A									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	59	0	119	0	0	0	79	834	0	0	525	44
Future Volume (veh/h)	59	0	119	0	0	0	79	834	0	0	525	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	62	0	125	0	0	0	83	878	0	0	553	46
Peak Hour Factor	0.95	0.92	0.95	0.92	0.92	0.92	0.95	0.95	0.92	0.92	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	198	0	176	0	3	0	698	2751	0	103	2572	213
Arrive On Green	0.11	0.00	0.11	0.00	0.00	0.00	0.76	0.76	0.00	0.00	0.76	0.76
Sat Flow, veh/h	1810	0	1610	0	1900	0	833	3705	0	642	3374	280
Grp Volume(v), veh/h	62	0	125	0	0	0	83	878	0	0	295	304
Grp Sat Flow(s),veh/h/ln	1810	0	1610	0	1900	0	833	1805	0	642	1805	1850
Q Serve(g_s), s	2.2	0.0	5.2	0.0	0.0	0.0	2.2	5.4	0.0	0.0	3.3	3.3
Cycle Q Clear(g_c), s	2.2	0.0	5.2	0.0	0.0	0.0	5.5	5.4	0.0	0.0	3.3	3.3
Prop In Lane	1.00		1.00	0.00		0.00	1.00		0.00	1.00		0.15
Lane Grp Cap(c), veh/h	198	0	176	0	3	0	698	2751	0	103	1376	1410
V/C Ratio(X)	0.31	0.00	0.71	0.00	0.00	0.00	0.12	0.32	0.00	0.00	0.21	0.22
Avail Cap(c_a), veh/h	465	0	414	0	489	0	698	2751	0	103	1376	1410
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.00	0.00	0.00	0.85	0.85	0.00	0.00	0.99	0.99
Uniform Delay (d), s/veh	28.8	0.0	30.1	0.0	0.0	0.0	3.1	2.6	0.0	0.0	2.4	2.4
Incr Delay (d2), s/veh	0.9	0.0	5.2	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.4	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	0.0	2.2	0.0	0.0	0.0	0.3	1.1	0.0	0.0	0.8	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	29.7	0.0	35.3	0.0	0.0	0.0	3.4	2.9	0.0	0.0	2.7	2.7
LnGrp LOS	C		D				A	A			A	A
Approach Vol, veh/h		187			0			961			599	
Approach Delay, s/veh		33.4			0.0			2.9			2.7	
Approach LOS		C						A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	57.9	12.1	57.9	0.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	20.5	18.0	20.5	18.0
Max Q Clear Time (g_c+I1), s	7.5	7.2	5.3	0.0
Green Ext Time (p_c), s	5.5	0.6	3.2	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	6.1
HCM 7th LOS	A

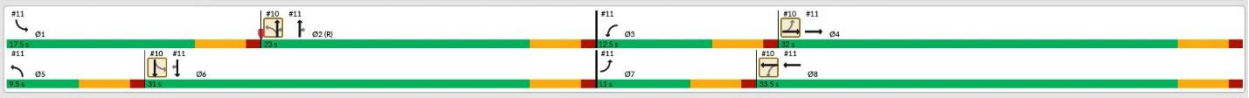
HCM 7th Edition methodology does not support clustered intersections.

Node Settings

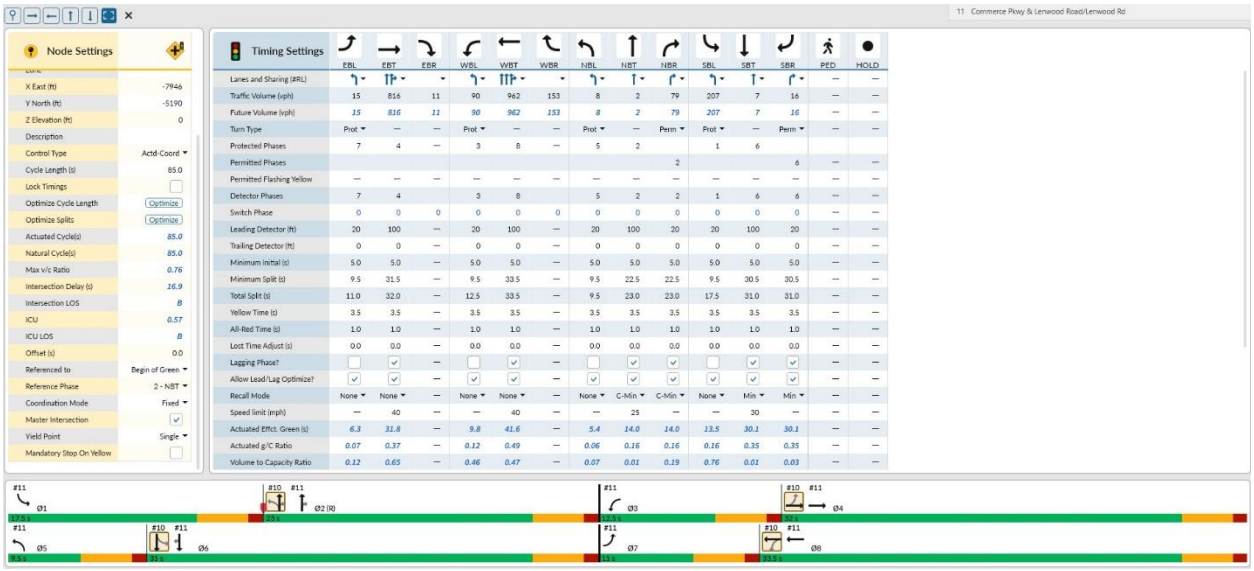
X East (ft)	-8175
Y North (ft)	-5061
Z Elevation (ft)	0
Description	
Control Type	Actd-Coord
Cycle Length (s)	85.0
Lock Timings	
Optimize Cycle Length	Optimize
Optimize Splits	Optimize
Actuated Cycle(s)	85.0
Natural Cycle(s)	85.0
Max v/c Ratio	0.76
Intersection Delay (s)	10.8
Intersection LOS	B
ICU	0.48
ICU LOS	A
Offset (s)	0.0
Referenced to	Begin of Green
Reference Phase	2 - NBTL
Coordination Mode	Fixed
Master Intersection	
Yield Point	Single
Mandatory Stop On Yellow	

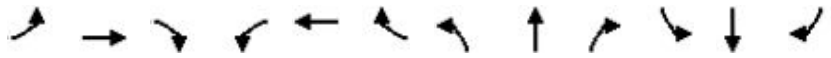
Timing Settings

	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	PED	HOLD
Lanes and Sharing (#RL)													—	—
Traffic Volume (vph)	2	635	11	90	827	31	8	0	139	25	0	9	—	—
Future Volume (vph)	2	635	11	90	827	31	8	0	139	25	0	9	—	—
Turn Type	Perm	—	—	Perm	—	—	Perm	—	Perm	Perm	—	—	—	—
Protected Phases		4	—		8	—		2			6	—		
Permitted Phases	4			8			2		2	6			—	—
Permitted Flashing Yellow	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Detector Phases	4	4		8	8		2	2	2	6	6		—	—
Switch Phase	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Leading Detector (ft)	20	100	—	20	100	—	—	100	20	—	100	—	—	—
Trailing Detector (ft)	0	0	—	0	0	—	—	0	0	—	0	—	—	—
Minimum Initial (s)	5.0	5.0	—	5.0	5.0	—	5.0	5.0	5.0	5.0	5.0	—	—	—
Minimum Split (s)	31.5	31.5	—	33.5	33.5	—	22.5	22.5	22.5	30.5	30.5	—	—	—
Total Split (s)	32.0	32.0	—	33.5	33.5	—	23.0	23.0	23.0	31.0	31.0	—	—	—
Yellow Time (s)	3.5	3.5	—	3.5	3.5	—	3.5	3.5	3.5	3.5	3.5	—	—	—
All-Red Time (s)	1.0	1.0	—	1.0	1.0	—	1.0	1.0	1.0	1.0	1.0	—	—	—
Lost Time Adjust (s)	0.0	0.0	—	0.0	0.0	—	—	0.0	0.0	—	0.0	—	—	—
Lagging Phase?	☑	☑	—	☑	☑	—	☑	☑	☑	☑	☑	—	—	—
Allow Lead/Lag Optimize?	☑	☑	—	☑	☑	—	☑	☑	☑	☑	☑	—	—	—
Recall Mode	None	None	—	None	None	—	C-Min	C-Min	C-Min	Min	Min	—	—	—
Speed limit (mph)	—	30	—	—	40	—	—	30	—	—	30	—	—	—
Actuated Effct. Green (s)	31.8	31.8	—	41.6	41.6	—	—	14.0	14.0	—	30.1	—	—	—
Actuated g/C Ratio	0.37	0.37	—	0.49	0.49	—	—	0.16	0.16	—	0.35	—	—	—
Volume to Capacity Ratio	0.01	0.50	—	0.41	0.51	—	—	0.03	0.34	—	0.07	—	—	—



HCM 7th Edition methodology does not support clustered intersections.


11 Commerce Pkwy & Lenwood Road/Lenwood Rd
Node Settings
X East (ft) -7946
Y North (ft) -5190
Z Elevation (ft) 0
Description
Control Type Actd-Coord
Cycle Length (s) 85.0
Lock Timings
Optimize Cycle Length Optimize
Optimize Splits Optimize
Actuated Cycle(s) 85.0
Natural Cycle(s) 85.0
Max v/c Ratio 0.76
Intersection Delay (s) 16.9
Intersection LOS B
ICU 0.57
ICU LOS B
Offset (s) 0.0
Referenced to Begin of Green
Reference Phase 2 - NBT
Coordination Mode Fixed
Master Intersection
Yield Point Single
Mandatory Stop On Yellow
Timing Settings
EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR PED HOLD
Lanes and Sharing (#RL)
Traffic Volume (vph) 15 816 11 90 962 153 8 2 79 207 7 16 — —
Future Volume (vph) 15 816 11 90 962 153 8 2 79 207 7 16 — —
Turn Type Prot — — Prot — — Prot — Perm Prot — Perm — —
Protected Phases 7 4 — 3 8 — 5 2 1 6
Permitted Phases 2 6 — —
Permitted Flashing Yellow — — — — — — — — — — — — — —
Detector Phases 7 4 3 8 5 2 2 1 6 6 — —
Switch Phase 0 0 0 0 0 0 0 0 0 0 0 0 — —
Leading Detector (ft) 20 100 — 20 100 — 20 100 20 20 100 20 — —
Trailing Detector (ft) 0 0 — 0 0 — 0 0 0 0 0 0 — —
Minimum Initial (s) 5.0 5.0 — 5.0 5.0 — 5.0 5.0 5.0 5.0 5.0 5.0 — —
Minimum Split (s) 9.5 31.5 — 9.5 33.5 — 9.5 22.5 22.5 9.5 30.5 30.5 — —
Total Split (s) 11.0 32.0 — 12.5 33.5 — 9.5 23.0 23.0 17.5 31.0 31.0 — —
Yellow Time (s) 3.5 3.5 — 3.5 3.5 — 3.5 3.5 3.5 3.5 3.5 3.5 — —
All-Red Time (s) 1.0 1.0 — 1.0 1.0 — 1.0 1.0 1.0 1.0 1.0 1.0 — —
Lost Time Adjust (s) 0.0 0.0 — 0.0 0.0 — 0.0 0.0 0.0 0.0 0.0 0.0 — —
Lagging Phase? — — — — — — — — — — — — — —
Allow Lead/Lag Optimize? — — — — — — — — — — — — — —
Recall Mode None None — None None — None C-Min C-Min None Min Min — —
Speed limit (mph) — 40 — — 40 — — 25 — — 30 — — —
Actuated Effct. Green (s) 6.3 31.8 — 9.8 41.6 — 5.4 14.0 14.0 13.5 30.1 30.1 — —
Actuated g/C Ratio 0.07 0.37 — 0.12 0.49 — 0.06 0.16 0.16 0.16 0.35 0.35 — —
Volume to Capacity Ratio 0.12 0.65 — 0.46 0.47 — 0.07 0.01 0.19 0.76 0.01 0.03 — —
#11 Ø1 12.5 s
#10 #11 Ø2 (R) 23 s
#11 Ø3 22.5 s
#10 #11 Ø4 30 s
#11 Ø5 9.5 s
#10 #11 Ø6 31 s
#11 Ø7 11 s
#10 #11 Ø8 33.5 s



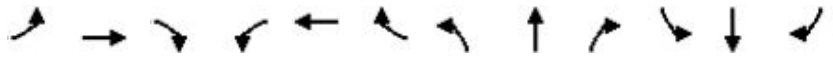
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑	↱		↑↑	↱				↰↰		↱
Traffic Volume (veh/h)	0	583	519	0	753	0	0	0	0	255	0	498
Future Volume (veh/h)	0	583	519	0	753	0	0	0	0	255	0	498
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	614	0	0	793	0				268	0	524
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1296		0	1296					1416	0	649
Arrive On Green	0.00	0.36	0.00	0.00	0.36	0.00				0.40	0.00	0.40
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	614	0	0	793	0				268	0	524
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	5.0	0.0	0.0	6.8	0.0				1.9	0.0	10.9
Cycle Q Clear(g_c), s	0.0	5.0	0.0	0.0	6.8	0.0				1.9	0.0	10.9
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1296		0	1296					1416	0	649
V/C Ratio(X)	0.00	0.47		0.00	0.61					0.19	0.00	0.81
Avail Cap(c_a), veh/h	0	2432		0	2432					2365	0	1085
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	9.4	0.0	0.0	10.0	0.0				7.3	0.0	10.0
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.0	0.5	0.0				0.1	0.0	2.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.3	0.0	0.0	1.8	0.0				0.3	0.0	2.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.6	0.0	0.0	10.4	0.0				7.4	0.0	12.4
LnGrp LOS		A			B					A		B
Approach Vol, veh/h		614			793						792	
Approach Delay, s/veh		9.6			10.4						10.7	
Approach LOS		A			B						B	

Timer - Assigned Phs		4		6		8
Phs Duration (G+Y+Rc), s		18.1		19.8		18.1
Change Period (Y+Rc), s		4.5		4.5		4.5
Max Green Setting (Gmax), s		25.5		25.5		25.5
Max Q Clear Time (g_c+I1), s		7.0		12.9		8.8
Green Ext Time (p_c), s		3.7		2.4		4.8

Intersection Summary	
HCM 7th Control Delay, s/veh	10.3
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	123	406	33	0	729	48	509	89	308	7	0	304
Future Volume (veh/h)	123	406	33	0	729	48	509	89	308	7	0	304
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	129	427	0	0	767	51	603	0	324	7	0	320
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	340	2346		0	1335	88	1352	0	1203	0	0	0
Arrive On Green	0.10	0.45	0.00	0.00	0.27	0.27	0.37	0.00	0.37	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	5141	329	3619	0	3220		0	
Grp Volume(v), veh/h	129	427	0	0	533	285	603	0	324		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1841	1810	0	1610			
Q Serve(g_s), s	1.8	2.5	0.0	0.0	6.9	6.9	6.5	0.0	3.6			
Cycle Q Clear(g_c), s	1.8	2.5	0.0	0.0	6.9	6.9	6.5	0.0	3.6			
Prop In Lane	1.00		1.00	0.00		0.18	1.00		1.00			
Lane Grp Cap(c), veh/h	340	2346		0	929	494	1352	0	1203			
V/C Ratio(X)	0.38	0.18		0.00	0.57	0.58	0.45	0.00	0.27			
Avail Cap(c_a), veh/h	1223	5169		0	1941	1033	1352	0	1203			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	21.9	8.4	0.0	0.0	16.3	16.4	12.2	0.0	11.3			
Incr Delay (d2), s/veh	0.7	0.0	0.0	0.0	0.6	1.1	1.1	0.0	0.6			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.7	0.7	0.0	0.0	2.3	2.6	2.0	0.0	1.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	22.6	8.5	0.0	0.0	16.9	17.4	13.2	0.0	11.8			
LnGrp LOS	C	A			B	B	B		B			
Approach Vol, veh/h		556			818			927				
Approach Delay, s/veh		11.8			17.1			12.7				
Approach LOS		B			B			B				

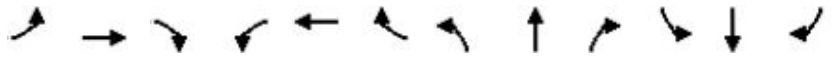
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	27.9	9.5	18.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	8.5	4.5	3.8	8.9
Green Ext Time (p_c), s	2.7	3.0	0.3	4.9

Intersection Summary	
HCM 7th Control Delay, s/veh	14.0
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

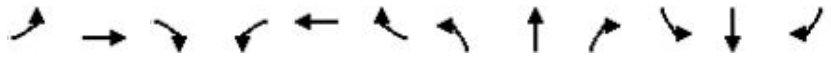


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	298	232	71	501	0	0	0	0	36	9	19
Future Volume (veh/h)	0	298	232	71	501	0	0	0	0	36	9	19
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	314	244	75	527	0				24	29	20
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	577	438	141	1897	0				307	322	273
Arrive On Green	0.00	0.30	0.30	0.08	0.53	0.00				0.17	0.17	0.17
Sat Flow, veh/h	0	2050	1483	1810	3705	0				1810	1900	1610
Grp Volume(v), veh/h	0	289	269	75	527	0				24	29	20
Grp Sat Flow(s),veh/h/ln	0	1805	1633	1810	1805	0				1810	1900	1610
Q Serve(g_s), s	0.0	4.0	4.1	1.2	2.4	0.0				0.3	0.4	0.3
Cycle Q Clear(g_c), s	0.0	4.0	4.1	1.2	2.4	0.0				0.3	0.4	0.3
Prop In Lane	0.00		0.91	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	533	482	141	1897	0				307	322	273
V/C Ratio(X)	0.00	0.54	0.56	0.53	0.28	0.00				0.08	0.09	0.07
Avail Cap(c_a), veh/h	0	1193	1079	399	3732	0				1257	1320	1119
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	8.7	8.8	13.1	3.9	0.0				10.3	10.3	10.3
Incr Delay (d2), s/veh	0.0	0.9	1.0	3.1	0.1	0.0				0.1	0.1	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.9	0.8	0.4	0.0	0.0				0.1	0.1	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.6	9.8	16.2	4.0	0.0				10.4	10.5	10.4
LnGrp LOS		A	A	B	A					B	B	B
Approach Vol, veh/h		558			602						73	
Approach Delay, s/veh		9.7			5.5						10.4	
Approach LOS		A			A						B	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		6.8	13.2		9.5		20.0					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		3.2	6.1		2.4		4.4					
Green Ext Time (p_c), s		0.0	2.6		0.2		3.1					

Intersection Summary	
HCM 7th Control Delay, s/veh	7.7
HCM 7th LOS	A

Notes
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	305	0	0	351	52	202	0	91	0	0	0
Future Volume (veh/h)	21	305	0	0	351	52	202	0	91	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	0	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	22	321	0	0	369	55	213	0	96			
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	51	1552	0	0	819	365	399	0	355			
Arrive On Green	0.03	0.43	0.00	0.00	0.23	0.23	0.22	0.00	0.22			
Sat Flow, veh/h	1810	3705	0	0	3705	1610	1810	0	1610			
Grp Volume(v), veh/h	22	321	0	0	369	55	213	0	96			
Grp Sat Flow(s),veh/h/ln	1810	1805	0	0	1805	1610	1810	0	1610			
Q Serve(g_s), s	0.3	1.4	0.0	0.0	2.3	0.7	2.7	0.0	1.3			
Cycle Q Clear(g_c), s	0.3	1.4	0.0	0.0	2.3	0.7	2.7	0.0	1.3			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	51	1552	0	0	819	365	399	0	355			
V/C Ratio(X)	0.43	0.21	0.00	0.00	0.45	0.15	0.53	0.00	0.27			
Avail Cap(c_a), veh/h	1054	4837	0	0	2103	938	1159	0	1032			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	12.3	4.6	0.0	0.0	8.6	8.0	8.9	0.0	8.3			
Incr Delay (d2), s/veh	5.6	0.1	0.0	0.0	0.4	0.2	1.1	0.0	0.4			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.0	0.0	0.4	0.1	0.5	0.0	0.2			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	17.9	4.7	0.0	0.0	9.0	8.2	10.0	0.0	8.7			
LnGrp LOS	B	A			A	A	A		A			
Approach Vol, veh/h		343			424			309				
Approach Delay, s/veh		5.5			8.9			9.6				
Approach LOS		A			A			A				

Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	10.2	15.6	5.2	10.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5	15.0	15.0
Max Q Clear Time (g_c+I1), s	4.7	3.4	2.3	4.3
Green Ext Time (p_c), s	1.0	1.8	0.0	1.6

Intersection Summary	
HCM 7th Control Delay, s/veh	8.0
HCM 7th LOS	A

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	6	0	150	29	3	287
Future Vol, veh/h	6	0	150	29	3	287
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	6	0	158	31	3	302

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	331	94	0	0	188	0
Stage 1	173	-	-	-	-	-
Stage 2	157	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	644	951	-	-	1398	-
Stage 1	846	-	-	-	-	-
Stage 2	861	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	643	951	-	-	1398	-
Mov Cap-2 Maneuver	682	-	-	-	-	-
Stage 1	846	-	-	-	-	-
Stage 2	859	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.33	0	0.08
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	682	1398	-
HCM Lane V/C Ratio	-	-	0.009	0.002	-
HCM Ctrl Dly (s/v)	-	-	10.3	7.6	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	4	1	178	15	3	290
Future Vol, veh/h	4	1	178	15	3	290
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	1	187	16	3	305

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	354	102	0	0	203	0
Stage 1	195	-	-	-	-	-
Stage 2	159	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	623	940	-	-	1381	-
Stage 1	824	-	-	-	-	-
Stage 2	859	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	621	940	-	-	1381	-
Mov Cap-2 Maneuver	667	-	-	-	-	-
Stage 1	824	-	-	-	-	-
Stage 2	857	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.12	0	0.08
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	708	1381	-
HCM Lane V/C Ratio	-	-	0.007	0.002	-
HCM Ctrl Dly (s/v)	-	-	10.1	7.6	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	13	0	193	52	5	289
Future Vol, veh/h	13	0	193	52	5	289
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	0	203	55	5	304

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	393	129	0	0	258	0
Stage 1	231	-	-	-	-	-
Stage 2	163	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	589	903	-	-	1319	-
Stage 1	792	-	-	-	-	-
Stage 2	856	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	587	903	-	-	1319	-
Mov Cap-2 Maneuver	641	-	-	-	-	-
Stage 1	792	-	-	-	-	-
Stage 2	852	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.74	0	0.13
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	641	1319	-
HCM Lane V/C Ratio	-	-	0.021	0.004	-
HCM Ctrl Dly (s/v)	-	-	10.7	7.7	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	4	1	244	15	3	299
Future Vol, veh/h	4	1	244	15	3	299
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	1	257	16	3	315

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	428	136	0	0	273	0
Stage 1	265	-	-	-	-	-
Stage 2	164	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	560	894	-	-	1302	-
Stage 1	762	-	-	-	-	-
Stage 2	855	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	559	894	-	-	1302	-
Mov Cap-2 Maneuver	619	-	-	-	-	-
Stage 1	762	-	-	-	-	-
Stage 2	853	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.5	0	0.08
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	660	1302	-
HCM Lane V/C Ratio	-	-	0.008	0.002	-
HCM Ctrl Dly (s/v)	-	-	10.5	7.8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	13	0	259	52	5	298
Future Vol, veh/h	13	0	259	52	5	298
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	14	0	273	55	5	314

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	467	164	0	0	327	0
Stage 1	300	-	-	-	-	-
Stage 2	167	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	529	858	-	-	1244	-
Stage 1	731	-	-	-	-	-
Stage 2	851	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	527	858	-	-	1244	-
Mov Cap-2 Maneuver	595	-	-	-	-	-
Stage 1	731	-	-	-	-	-
Stage 2	848	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.19	0	0.13
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	595	1244	-
HCM Lane V/C Ratio	-	-	0.023	0.004	-
HCM Ctrl Dly (s/v)	-	-	11.2	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	3	1	310	15	3	308
Future Vol, veh/h	3	1	310	15	3	308
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	3	1	326	16	3	324

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	503	171	0	0	342	0
Stage 1	334	-	-	-	-	-
Stage 2	168	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	503	849	-	-	1228	-
Stage 1	703	-	-	-	-	-
Stage 2	850	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	502	849	-	-	1228	-
Mov Cap-2 Maneuver	574	-	-	-	-	-
Stage 1	703	-	-	-	-	-
Stage 2	848	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	10.8	0	0.08
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	625	1228	-
HCM Lane V/C Ratio	-	-	0.007	0.003	-
HCM Ctrl Dly (s/v)	-	-	10.8	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	1.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	89	10	315	116	13	298
Future Vol, veh/h	89	10	315	116	13	298
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	94	11	332	122	14	314

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	577	227	0	0	454	0
Stage 1	393	-	-	-	-	-
Stage 2	184	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	452	782	-	-	1118	-
Stage 1	657	-	-	-	-	-
Stage 2	835	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	446	782	-	-	1118	-
Mov Cap-2 Maneuver	531	-	-	-	-	-
Stage 1	657	-	-	-	-	-
Stage 2	825	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	13.09	0	0.35
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	549	1118	-
HCM Lane V/C Ratio	-	-	0.19	0.012	-
HCM Ctrl Dly (s/v)	-	-	13.1	8.3	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.7	0	-

Intersection	
Int Delay, s/veh	0.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	38	7	424	42	6	381
Future Vol, veh/h	38	7	424	42	6	381
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	40	7	446	44	6	401

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	682	245	0	0	491	0
Stage 1	468	-	-	-	-	-
Stage 2	213	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	388	761	-	-	1083	-
Stage 1	602	-	-	-	-	-
Stage 2	808	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	386	761	-	-	1083	-
Mov Cap-2 Maneuver	482	-	-	-	-	-
Stage 1	602	-	-	-	-	-
Stage 2	803	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	12.76	0	0.13
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	511	1083	-
HCM Lane V/C Ratio	-	-	0.093	0.006	-
HCM Ctrl Dly (s/v)	-	-	12.8	8.3	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	61	47	15	50	57	64
Future Vol, veh/h	61	47	15	50	57	64
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	64	49	16	53	60	67
Number of Lanes	1	1	1	1	1	1

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	2	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	2	2
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	7.7	8.1	8
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2
Vol Left, %	100%	0%	0%	0%	100%	0%
Vol Thru, %	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	57	64	61	47	15	50
LT Vol	57	0	0	0	15	0
Through Vol	0	0	61	0	0	50
RT Vol	0	64	0	47	0	0
Lane Flow Rate	60	67	64	49	16	53
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.091	0.079	0.087	0.057	0.024	0.072
Departure Headway (Hd)	5.432	4.23	4.877	4.175	5.411	4.909
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	662	850	737	861	664	732
Service Time	3.143	1.94	2.589	1.886	3.123	2.621
HCM Lane V/C Ratio	0.091	0.079	0.087	0.057	0.024	0.072
HCM Control Delay, s/veh	8.7	7.3	8.1	7.1	8.3	8
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.3	0.3	0.3	0.2	0.1	0.2

Intersection	
Intersection Delay, s/veh	8.3
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	11	14	71	0	0	0	0	121	24	19	53	0
Future Vol, veh/h	11	14	71	0	0	0	0	121	24	19	53	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	12	15	75	0	0	0	0	127	25	20	56	0
Number of Lanes	1	1	1	0	0	0	0	1	0	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	1
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	3	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	1	0	3
HCM Control Delay, s/veh	7.7	8.7	8.3
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	EBLn2	EBLn3	SBLn1	SBLn2
Vol Left, %	0%	100%	0%	0%	100%	0%
Vol Thru, %	83%	0%	100%	0%	0%	100%
Vol Right, %	17%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	145	11	14	71	19	53
LT Vol	0	11	0	0	19	0
Through Vol	121	0	14	0	0	53
RT Vol	24	0	0	71	0	0
Lane Flow Rate	153	12	15	75	20	56
Geometry Grp	6	5	5	5	6	6
Degree of Util (X)	0.204	0.018	0.021	0.091	0.031	0.078
Departure Headway (Hd)	4.801	5.574	5.072	4.37	5.563	5.062
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	749	644	708	822	645	709
Service Time	2.518	3.29	2.789	2.086	3.285	2.783
HCM Lane V/C Ratio	0.204	0.019	0.021	0.091	0.031	0.079
HCM Control Delay, s/veh	8.7	8.4	7.9	7.5	8.5	8.2
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	0.8	0.1	0.1	0.3	0.1	0.3

Intersection	
Int Delay, s/veh	6.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	43	71	4	27	96	19	8	78	48	22	65	30
Future Vol, veh/h	43	71	4	27	96	19	8	78	48	22	65	30
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	45	75	4	28	101	20	8	82	51	23	68	32

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	280	280	84	276	271	107	100	0	0	133	0	0
Stage 1	131	131	-	124	124	-	-	-	-	-	-	-
Stage 2	149	149	-	152	146	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	676	632	981	680	639	952	1505	-	-	1465	-	-
Stage 1	878	792	-	885	797	-	-	-	-	-	-	-
Stage 2	858	777	-	855	780	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	545	618	981	584	626	952	1505	-	-	1465	-	-
Mov Cap-2 Maneuver	545	618	-	584	626	-	-	-	-	-	-	-
Stage 1	864	780	-	880	793	-	-	-	-	-	-	-
Stage 2	729	773	-	758	767	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	12.61	12.23	0.44	1.41
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1505	-	-	597	647	1465	-	-
HCM Lane V/C Ratio	0.006	-	-	0.208	0.231	0.016	-	-
HCM Ctrl Dly (s/v)	7.4	-	-	12.6	12.2	7.5	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.8	0.9	0	-	-

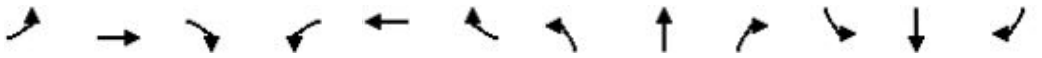
Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	121	0	4	0	187	126	12	138	0
Future Vol, veh/h	0	0	0	121	0	4	0	187	126	12	138	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	0	-	-	90	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	127	0	4	0	197	133	13	145	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	367	500	145	434	434	263	145	0	0	329	0	0
Stage 1	171	171	-	263	263	-	-	-	-	-	-	-
Stage 2	197	329	-	171	171	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	593	476	907	536	518	780	1449	-	-	1241	-	-
Stage 1	836	761	-	746	694	-	-	-	-	-	-	-
Stage 2	810	650	-	836	761	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	583	471	907	530	513	780	1449	-	-	1241	-	-
Mov Cap-2 Maneuver	583	471	-	530	513	-	-	-	-	-	-	-
Stage 1	828	754	-	746	694	-	-	-	-	-	-	-
Stage 2	805	650	-	828	754	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	0	13.89	0	0.63
HCM LOS	A	B		

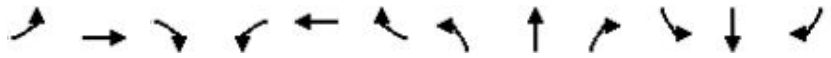
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1449	-	-	-	536	1241	-	-
HCM Lane V/C Ratio	-	-	-	-	0.245	0.01	-	-
HCM Ctrl Dly (s/v)	0	-	-	0	13.9	7.9	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	1	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	133	78	419	29	27	72	159	383	28	47	430	42
Future Volume (veh/h)	133	78	419	29	27	72	159	383	28	47	430	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	140	82	441	31	28	76	167	403	29	49	453	44
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	558	636	539	449	151	411	833	843	714	463	843	714
Arrive On Green	0.33	0.33	0.33	0.33	0.33	0.33	0.44	0.44	0.44	0.44	0.44	0.44
Sat Flow, veh/h	1311	1900	1610	893	452	1227	1775	1900	1610	971	1900	1610
Grp Volume(v), veh/h	140	82	441	31	0	104	167	403	29	49	453	44
Grp Sat Flow(s),veh/h/ln	1311	1900	1610	893	0	1679	887	1900	1610	971	1900	1610
Q Serve(g_s), s	3.4	1.2	10.2	1.0	0.0	1.8	3.1	6.1	0.4	1.5	7.1	0.6
Cycle Q Clear(g_c), s	5.2	1.2	10.2	2.2	0.0	1.8	10.1	6.1	0.4	7.6	7.1	0.6
Prop In Lane	1.00		1.00	1.00		0.73	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	558	636	539	449	0	562	833	843	714	463	843	714
V/C Ratio(X)	0.25	0.13	0.82	0.07	0.00	0.19	0.20	0.48	0.04	0.11	0.54	0.06
Avail Cap(c_a), veh/h	701	843	714	547	0	745	833	843	714	463	843	714
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.4	9.4	12.4	10.2	0.0	9.6	12.0	8.0	6.4	10.7	8.2	6.5
Incr Delay (d2), s/veh	0.2	0.1	5.6	0.1	0.0	0.2	0.5	1.9	0.1	0.5	2.5	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.4	3.5	0.2	0.0	0.5	0.4	1.6	0.1	0.3	1.9	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	11.7	9.5	18.0	10.2	0.0	9.7	12.5	9.9	6.5	11.1	10.7	6.6
LnGrp LOS	B	A	B	B		A	B	A	A	B	B	A
Approach Vol, veh/h		663			135			599			546	
Approach Delay, s/veh		15.6			9.8			10.5			10.4	
Approach LOS		B			A			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		22.5		18.1		22.5		18.1				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.0		18.0		18.0		18.0				
Max Q Clear Time (g_c+I1), s		12.1		12.2		9.6		4.2				
Green Ext Time (p_c), s		1.6		1.4		1.8		0.5				

Intersection Summary												
HCM 7th Control Delay, s/veh			12.2									
HCM 7th LOS			B									



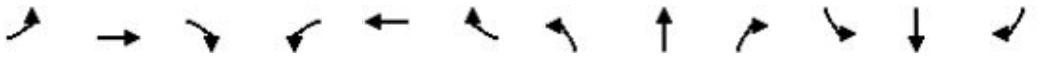
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	135	457	60	226	241	616	296	80	267	514	134
Future Volume (veh/h)	84	135	457	60	226	241	616	296	80	267	514	134
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	88	142	0	63	238	0	648	312	84	281	541	141
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	124	495		103	453		828	977	259	429	958	244
Arrive On Green	0.07	0.14	0.00	0.06	0.13	0.00	0.24	0.35	0.35	0.12	0.23	0.23
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	3510	2823	748	3510	4121	1049
Grp Volume(v), veh/h	88	142	0	63	238	0	648	198	198	281	452	230
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1755	1805	1765	1755	1729	1711
Q Serve(g_s), s	2.5	1.9	0.0	1.8	3.3	0.0	9.2	4.3	4.4	4.1	6.2	6.4
Cycle Q Clear(g_c), s	2.5	1.9	0.0	1.8	3.3	0.0	9.2	4.3	4.4	4.1	6.2	6.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.42	1.00		0.61
Lane Grp Cap(c), veh/h	124	495		103	453		828	625	611	429	804	398
V/C Ratio(X)	0.71	0.29		0.61	0.53		0.78	0.32	0.32	0.65	0.56	0.58
Avail Cap(c_a), veh/h	170	2451		299	2708		1152	1459	1427	915	2562	1268
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	24.3	20.7	0.0	24.6	21.8	0.0	19.1	12.8	12.8	22.3	18.1	18.1
Incr Delay (d2), s/veh	8.3	0.3	0.0	5.8	0.9	0.0	2.4	0.3	0.3	1.7	0.6	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.7	0.0	0.8	1.3	0.0	3.3	1.4	1.4	1.5	2.0	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	32.6	21.0	0.0	30.3	22.8	0.0	21.5	13.1	13.1	24.0	18.7	19.5
LnGrp LOS	C	C		C	C		C	B	B	C	B	B
Approach Vol, veh/h		230			301			1044			963	
Approach Delay, s/veh		25.4			24.3			18.3			20.4	
Approach LOS		C			C			B			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	23.0	7.5	11.8	17.1	16.9	8.1	11.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.9	43.1	8.8	36.2	17.5	39.5	5.0	40.0
Max Q Clear Time (g_c+I1), s	6.1	6.4	3.8	3.9	11.2	8.4	4.5	5.3
Green Ext Time (p_c), s	0.5	2.1	0.0	0.7	1.4	4.0	0.0	1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	20.5
HCM 7th LOS	C

Notes

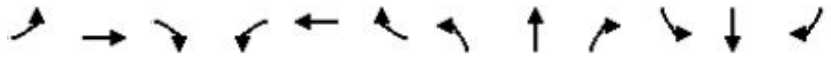
Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	26	0	36	25	0	3	51	890	10	2	874	22
Future Volume (veh/h)	26	0	36	25	0	3	51	890	10	2	874	22
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	27	0	38	26	0	3	54	937	11	2	920	23
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	121	0	206	121	0	206	499	1372	1163	393	2599	65
Arrive On Green	0.13	0.00	0.13	0.13	0.00	0.13	0.72	0.72	0.72	0.72	0.72	0.72
Sat Flow, veh/h	7	0	1610	7	0	1610	604	1900	1610	601	3599	90
Grp Volume(v), veh/h	27	0	38	26	0	3	54	937	11	2	461	482
Grp Sat Flow(s),veh/h/ln	7	0	1610	7	0	1610	604	1900	1610	601	1805	1884
Q Serve(g_s), s	0.0	0.0	1.3	0.0	0.0	0.1	2.2	16.2	0.1	0.1	5.7	5.7
Cycle Q Clear(g_c), s	7.7	0.0	1.3	7.7	0.0	0.1	7.9	16.2	0.1	16.2	5.7	5.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.05
Lane Grp Cap(c), veh/h	121	0	206	121	0	206	499	1372	1163	393	1304	1361
V/C Ratio(X)	0.22	0.00	0.18	0.22	0.00	0.01	0.11	0.68	0.01	0.01	0.35	0.35
Avail Cap(c_a), veh/h	368	0	483	360	0	483	499	1372	1163	393	1304	1361
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.97	0.97	0.97	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.0	0.0	23.4	30.0	0.0	22.9	4.6	4.6	2.3	9.0	3.1	3.1
Incr Delay (d2), s/veh	0.9	0.0	0.4	0.9	0.0	0.0	0.4	2.7	0.0	0.0	0.8	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.0	0.5	0.4	0.0	0.0	0.3	4.3	0.0	0.0	1.3	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	30.9	0.0	23.8	30.9	0.0	22.9	5.0	7.3	2.3	9.0	3.9	3.8
LnGrp LOS	C		C	C		C	A	A	A	A	A	A
Approach Vol, veh/h		65			29			1002			945	
Approach Delay, s/veh		26.8			30.1			7.1			3.9	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		47.8		12.2		47.8		12.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		33.0		18.0		33.0		18.0				
Max Q Clear Time (g_c+I1), s		18.2		9.7		18.2		9.7				
Green Ext Time (p_c), s		6.9		0.1		5.4		0.0				

Intersection Summary	
HCM 7th Control Delay, s/veh	6.5
HCM 7th LOS	A

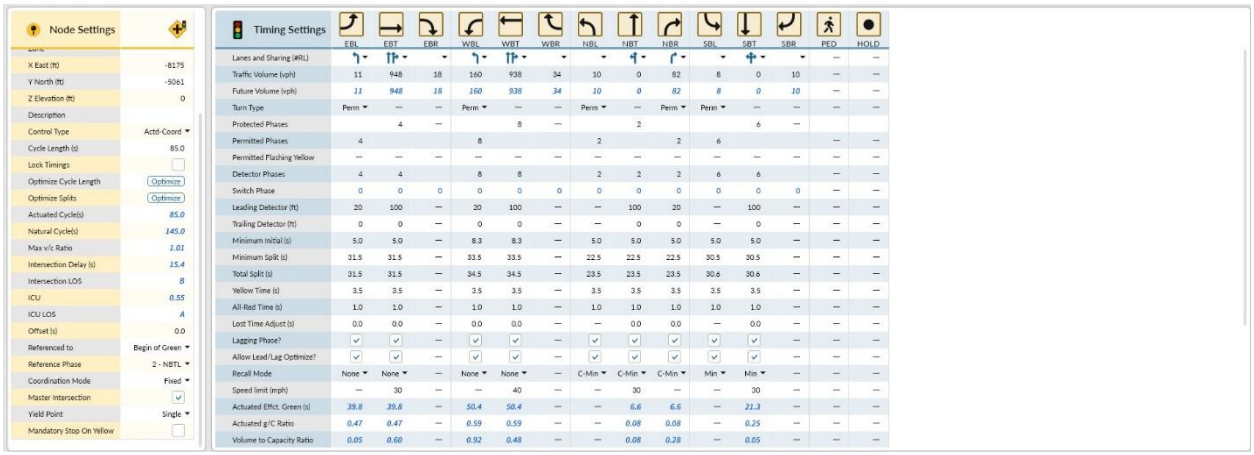


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	0	90	0	0	0	92	820	0	0	858	81
Future Volume (veh/h)	43	0	90	0	0	0	92	820	0	0	858	81
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	45	0	95	0	0	0	97	863	0	0	903	85
Peak Hour Factor	0.95	0.92	0.95	0.92	0.92	0.92	0.95	0.95	0.92	0.92	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	154	0	137	0	3	0	512	2870	0	96	2651	250
Arrive On Green	0.09	0.00	0.09	0.00	0.00	0.00	0.79	0.79	0.00	0.00	0.79	0.79
Sat Flow, veh/h	1810	0	1610	0	1900	0	579	3705	0	651	3335	314
Grp Volume(v), veh/h	45	0	95	0	0	0	97	863	0	0	489	499
Grp Sat Flow(s),veh/h/ln	1810	0	1610	0	1900	0	579	1805	0	651	1805	1844
Q Serve(g_s), s	1.8	0.0	4.3	0.0	0.0	0.0	4.2	4.8	0.0	0.0	5.7	5.7
Cycle Q Clear(g_c), s	1.8	0.0	4.3	0.0	0.0	0.0	10.0	4.8	0.0	0.0	5.7	5.7
Prop In Lane	1.00		1.00	0.00		0.00	1.00		0.00	1.00		0.17
Lane Grp Cap(c), veh/h	154	0	137	0	3	0	512	2870	0	96	1435	1466
V/C Ratio(X)	0.29	0.00	0.69	0.00	0.00	0.00	0.19	0.30	0.00	0.00	0.34	0.34
Avail Cap(c_a), veh/h	434	0	386	0	456	0	512	2870	0	96	1435	1466
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.00	0.00	0.00	0.87	0.87	0.00	0.00	0.96	0.96
Uniform Delay (d), s/veh	32.2	0.0	33.4	0.0	0.0	0.0	3.6	2.1	0.0	0.0	2.2	2.2
Incr Delay (d2), s/veh	1.0	0.0	6.2	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.6	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.0	1.9	0.0	0.0	0.0	0.4	0.9	0.0	0.0	1.2	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	33.2	0.0	39.5	0.0	0.0	0.0	4.3	2.3	0.0	0.0	2.8	2.8
LnGrp LOS	C		D				A	A			A	A
Approach Vol, veh/h		140			0			960			988	
Approach Delay, s/veh		37.5			0.0			2.5			2.8	
Approach LOS		D						A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	64.1	10.9	64.1	0.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	25.5	18.0	25.5	18.0
Max Q Clear Time (g_c+I1), s	12.0	6.3	7.7	0.0
Green Ext Time (p_c), s	5.9	0.4	6.3	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	5.0
HCM 7th LOS	A

HCM 7th Edition methodology does not support clustered intersections.



Node Settings

X East (ft)	-8175
Y North (ft)	-5061
Z Elevation (ft)	0
Description	
Control Type	Actd-Coord
Cycle Length (s)	85.0
Lock Timings	
Optimize Cycle Length	Optimize
Optimize Splits	Optimize
Actuated Cycle(s)	*85.0*
Natural Cycle(s)	*145.0*
Max v/c Ratio	*1.01*
Intersection Delay (s)	*15.4*
Intersection LOS	*B*
ICU	*0.55*
ICU LOS	*A*
Offset (s)	0.0
Referenced to	Begin of Green
Reference Phase	2 - NBTL
Coordination Mode	Fixed
Master Intersection	
Yield Point	Single
Mandatory Stop On Yellow	

Timing Settings

	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	PED	HOLD
Lanes and Sharing (#RL)													–	–
Traffic Volume (vph)	11	948	18	160	938	34	10	0	82	8	0	10	–	–
Future Volume (vph)	*11*	*948*	*18*	*160*	*938*	*34*	*10*	*0*	*82*	*8*	*0*	*10*	–	–
Turn Type	Perm	–	–	Perm	–	–	Perm	–	Perm	Perm	–	–	–	–
Protected Phases		4	–		8	–		2			6	–		
Permitted Phases	4			8			2		2	6			–	–
Permitted Flashing Yellow	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Detector Phases	4	4		8	8		2	2	2	6	6		–	–
Switch Phase	0	0	0	0	0	0	0	0	0	0	0	0	–	–
Leading Detector (ft)	20	100	–	20	100	–	–	100	20	–	100	–	–	–
Trailing Detector (ft)	0	0	–	0	0	–	–	0	0	–	0	–	–	–
Minimum Initial (s)	5.0	5.0	–	8.3	8.3	–	5.0	5.0	5.0	5.0	5.0	–	–	–
Minimum Split (s)	31.5	31.5	–	33.5	33.5	–	22.5	22.5	22.5	30.5	30.5	–	–	–
Total Split (s)	31.5	31.5	–	34.5	34.5	–	23.5	23.5	23.5	30.6	30.6	–	–	–
Yellow Time (s)	3.5	3.5	–	3.5	3.5	–	3.5	3.5	3.5	3.5	3.5	–	–	–
All-Red Time (s)	1.0	1.0	–	1.0	1.0	–	1.0	1.0	1.0	1.0	1.0	–	–	–
Lost Time Adjust (s)	0.0	0.0	–	0.0	0.0	–	–	0.0	0.0	–	0.0	–	–	–
Lagging Phase?	☑	☑	–	☑	☑	–	☑	☑	☑	☑	☑	–	–	–
Allow Lead/Lag Optimize?	☑	☑	–	☑	☑	–	☑	☑	☑	☑	☑	–	–	–
Recall Mode	None	None	–	None	None	–	C-Min	C-Min	C-Min	Min	Min	–	–	–
Speed limit (mph)	–	30	–	–	40	–	–	30	–	–	30	–	–	–
Actuated Effct. Green (s)	*39.8*	*39.8*	–	*50.4*	*50.4*	–	–	*6.6*	*6.6*	–	*21.3*	–	–	–
Actuated g/C Ratio	*0.47*	*0.47*	–	*0.59*	*0.59*	–	–	*0.08*	*0.08*	–	*0.25*	–	–	–
Volume to Capacity Ratio	*0.05*	*0.60*	–	*0.92*	*0.48*	–	–	*0.08*	*0.28*	–	*0.05*	–	–	–

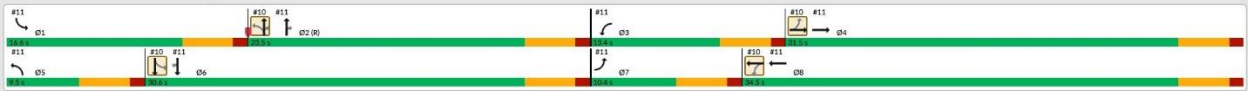
HCM 7th Edition methodology does not support clustered intersections.

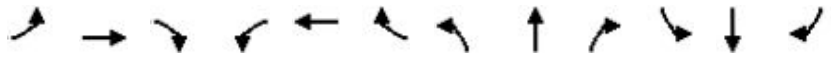
Node Settings

X East (ft)	-7946
Y North (ft)	-5190
Z Elevation (ft)	0
Description	
Control Type	Actd-Coord
Cycle Length (s)	85.0
Lock Timings	
Optimize Cycle Length	Optimize
Optimize Splits	Optimize
Actuated Cycle(s)	85.0
Natural Cycle(s)	145.0
Max v/c Ratio	1.01
Intersection Delay (s)	18.5
Intersection LOS	B
ICU	0.68
ICU LOS	C
Offset (s)	0.0
Referenced to	Begin of Green
Reference Phase	2 - NBT
Coordination Mode	Fixed
Master Intersection	
Yield Point	Single
Mandatory Stop On Yellow	

Timing Settings

	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	PED	HOLD
Lanes and Sharing (#RL)													—	—
Traffic Volume (vph)	13	1101	15	108	1035	180	14	1	134	245	4	13	—	—
Future Volume (vph)	13	1101	15	108	1035	180	14	1	134	245	4	13	—	—
Turn Type	Prot	—	—	Prot	—	—	Prot	—	Perm	Prot	—	Perm	—	—
Protected Phases	7	4	—	3	8	—	5	2		1	6			
Permitted Phases									2			6	—	—
Permitted Flashing Yellow	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Detector Phases	7	4		3	8		5	2	2	1	6	6	—	—
Switch Phase	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Leading Detector (ft)	20	100	—	20	100	—	20	100	20	20	100	20	—	—
Trailing Detector (ft)	0	0	—	0	0	—	0	0	0	0	0	0	—	—
Minimum Initial (s)	5.0	5.0	—	1.0	8.3	—	5.0	5.0	5.0	5.0	5.0	5.0	—	—
Minimum Split (s)	9.5	31.5	—	5.5	33.5	—	9.5	22.5	22.5	9.5	30.5	30.5	—	—
Total Split (s)	10.4	31.5	—	13.4	34.5	—	9.5	23.5	23.5	16.6	30.6	30.6	—	—
Yellow Time (s)	3.5	3.5	—	3.5	3.5	—	3.5	3.5	3.5	3.5	3.5	3.5	—	—
All-Red Time (s)	1.0	1.0	—	1.0	1.0	—	1.0	1.0	1.0	1.0	1.0	1.0	—	—
Lost Time Adjust (s)	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0	0.0	0.0	0.0	—	—
Lagging Phase?	☐	☑	—	☐	☑	—	☐	☑	☑	☐	☑	☑	—	—
Allow Lead/Lag Optimize?	☑	☑	—	☑	☑	—	☑	☑	☑	☑	☑	☑	—	—
Recall Mode	None	None	—	None	None	—	None	C-Min	C-Min	None	Min	Min	—	—
Speed limit (mph)	—	40	—	—	40	—	—	25	—	—	30	—	—	—
Actuated Effct. Green (s)	6.3	39.8	—	10.8	50.4	—	5.0	6.6	6.6	12.1	21.3	21.3	—	—
Actuated g/C Ratio	0.07	0.47	—	0.13	0.59	—	0.06	0.08	0.08	0.14	0.25	0.25	—	—
Volume to Capacity Ratio	0.11	0.70	—	0.50	0.42	—	0.14	0.01	0.47	1.01	0.01	0.03	—	—





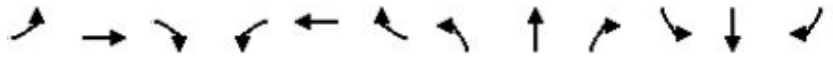
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑	↱		↑↑	↱				↰↰		↱
Traffic Volume (veh/h)	0	862	618	0	773	0	0	0	0	588	0	589
Future Volume (veh/h)	0	862	618	0	773	0	0	0	0	588	0	589
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	0	1900
Adj Flow Rate, veh/h	0	907	0	0	814	0				619	0	620
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1304		0	1304					1574	0	722
Arrive On Green	0.00	0.36	0.00	0.00	0.36	0.00				0.45	0.00	0.45
Sat Flow, veh/h	0	3705	1610	0	3705	1610				3510	0	1610
Grp Volume(v), veh/h	0	907	0	0	814	0				619	0	620
Grp Sat Flow(s),veh/h/ln	0	1805	1610	0	1805	1610				1755	0	1610
Q Serve(g_s), s	0.0	10.1	0.0	0.0	8.8	0.0				5.6	0.0	16.3
Cycle Q Clear(g_c), s	0.0	10.1	0.0	0.0	8.8	0.0				5.6	0.0	16.3
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1304		0	1304					1574	0	722
V/C Ratio(X)	0.00	0.70		0.00	0.62					0.39	0.00	0.86
Avail Cap(c_a), veh/h	0	1946		0	1946					1892	0	868
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	12.9	0.0	0.0	12.5	0.0				8.7	0.0	11.7
Incr Delay (d2), s/veh	0.0	0.7	0.0	0.0	0.5	0.0				0.2	0.0	7.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	3.2	0.0	0.0	2.7	0.0				1.2	0.0	4.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	13.6	0.0	0.0	13.0	0.0				8.9	0.0	19.2
LnGrp LOS		B			B					A		B
Approach Vol, veh/h		907			814						1239	
Approach Delay, s/veh		13.6			13.0						14.0	
Approach LOS		B			B						B	

Timer - Assigned Phs		4		6		8			
Phs Duration (G+Y+Rc), s		21.6		25.7		21.6			
Change Period (Y+Rc), s		4.5		4.5		4.5			
Max Green Setting (Gmax), s		25.5		25.5		25.5			
Max Q Clear Time (g_c+I1), s		12.1		18.3		10.8			
Green Ext Time (p_c), s		5.0		2.9		4.6			

Intersection Summary	
HCM 7th Control Delay, s/veh	13.6
HCM 7th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	297	861	101	0	1236	149	461	124	297	54	0	427
Future Volume (veh/h)	297	861	101	0	1236	149	461	124	297	54	0	427
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	0	1900	1900	1900	1900	1900	1900	0	1900
Adj Flow Rate, veh/h	313	906	0	0	1301	157	308	379	313	57	0	449
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	448	2954		0	1751	211	531	558	946	0	0	0
Arrive On Green	0.13	0.57	0.00	0.00	0.37	0.37	0.29	0.29	0.29	0.00	0.00	0.00
Sat Flow, veh/h	3510	5187	1610	0	4861	566	1810	1900	3220		0	
Grp Volume(v), veh/h	313	906	0	0	959	499	308	379	313		0.0	
Grp Sat Flow(s),veh/h/ln	1755	1729	1610	0	1729	1798	1810	1900	1610			
Q Serve(g_s), s	5.6	6.0	0.0	0.0	15.8	15.8	9.5	11.6	5.0			
Cycle Q Clear(g_c), s	5.6	6.0	0.0	0.0	15.8	15.8	9.5	11.6	5.0			
Prop In Lane	1.00		1.00	0.00		0.31	1.00		1.00			
Lane Grp Cap(c), veh/h	448	2954		0	1291	671	531	558	946			
V/C Ratio(X)	0.70	0.31		0.00	0.74	0.74	0.58	0.68	0.33			
Avail Cap(c_a), veh/h	961	4064		0	1526	793	531	558	946			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	27.5	7.4	0.0	0.0	17.9	17.9	19.8	20.5	18.2			
Incr Delay (d2), s/veh	2.0	0.1	0.0	0.0	1.7	3.2	4.6	6.5	0.9			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	2.3	1.7	0.0	0.0	5.7	6.2	4.0	5.2	1.7			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	29.4	7.4	0.0	0.0	19.5	21.0	24.3	27.0	19.1			
LnGrp LOS	C	A			B	C	C	C	B			
Approach Vol, veh/h		1219			1458			1000				
Approach Delay, s/veh		13.1			20.0			23.7				
Approach LOS		B			C			C				

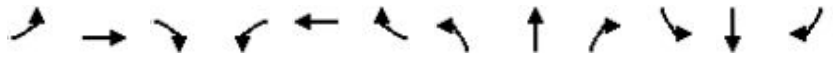
Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	23.8	41.9	12.9	29.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.3	51.5	18.0	29.0
Max Q Clear Time (g_c+I1), s	13.6	8.0	7.6	17.8
Green Ext Time (p_c), s	2.2	7.1	0.8	6.7

Intersection Summary	
HCM 7th Control Delay, s/veh	18.7
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

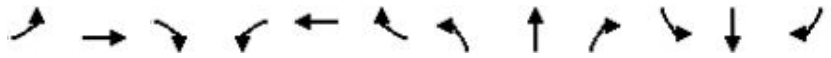


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	436	232	54	743	0	0	0	0	41	23	20
Future Volume (veh/h)	0	436	232	54	743	0	0	0	0	41	23	20
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	1900	1900	0				1900	1900	1900
Adj Flow Rate, veh/h	0	459	244	57	782	0				34	37	21
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95				0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	771	407	113	1972	0				293	308	261
Arrive On Green	0.00	0.34	0.34	0.06	0.55	0.00				0.16	0.16	0.16
Sat Flow, veh/h	0	2378	1205	1810	3705	0				1810	1900	1610
Grp Volume(v), veh/h	0	362	341	57	782	0				34	37	21
Grp Sat Flow(s),veh/h/ln	0	1805	1683	1810	1805	0				1810	1900	1610
Q Serve(g_s), s	0.0	5.1	5.2	0.9	3.9	0.0				0.5	0.5	0.3
Cycle Q Clear(g_c), s	0.0	5.1	5.2	0.9	3.9	0.0				0.5	0.5	0.3
Prop In Lane	0.00		0.72	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	610	569	113	1972	0				293	308	261
V/C Ratio(X)	0.00	0.59	0.60	0.50	0.40	0.00				0.12	0.12	0.08
Avail Cap(c_a), veh/h	0	1141	1064	381	3568	0				1202	1262	1070
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	8.5	8.5	14.0	4.1	0.0				11.0	11.0	11.0
Incr Delay (d2), s/veh	0.0	0.9	1.0	3.4	0.1	0.0				0.2	0.2	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.1	1.1	0.3	0.0	0.0				0.1	0.1	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	9.4	9.5	17.4	4.2	0.0				11.2	11.2	11.1
LnGrp LOS		A	A	B	A					B	B	B
Approach Vol, veh/h		703			839						92	
Approach Delay, s/veh		9.4			5.1						11.2	
Approach LOS		A			A						B	

Timer - Assigned Phs		3	4		6		8					
Phs Duration (G+Y+Rc), s		6.4	14.9		9.5		21.4					
Change Period (Y+Rc), s		4.5	4.5		4.5		4.5					
Max Green Setting (Gmax), s		6.5	19.5		20.5		30.5					
Max Q Clear Time (g_c+I1), s		2.9	7.2		2.5		5.9					
Green Ext Time (p_c), s		0.0	3.2		0.2		4.8					

Intersection Summary	
HCM 7th Control Delay, s/veh	7.3
HCM 7th LOS	A

Notes
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	452	0	0	504	79	273	0	144	0	0	0
Future Volume (veh/h)	21	452	0	0	504	79	273	0	144	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1900	1900	0	0	1900	1900	1900	1900	1900			
Adj Flow Rate, veh/h	22	476	0	0	531	83	287	0	152			
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95			
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0			
Cap, veh/h	51	1609	0	0	966	431	460	0	409			
Arrive On Green	0.03	0.45	0.00	0.00	0.27	0.27	0.25	0.00	0.25			
Sat Flow, veh/h	1810	3705	0	0	3705	1610	1810	0	1610			
Grp Volume(v), veh/h	22	476	0	0	531	83	287	0	152			
Grp Sat Flow(s),veh/h/ln	1810	1805	0	0	1805	1610	1810	0	1610			
Q Serve(g_s), s	0.4	2.5	0.0	0.0	3.8	1.2	4.2	0.0	2.3			
Cycle Q Clear(g_c), s	0.4	2.5	0.0	0.0	3.8	1.2	4.2	0.0	2.3			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	51	1609	0	0	966	431	460	0	409			
V/C Ratio(X)	0.44	0.30	0.00	0.00	0.55	0.19	0.62	0.00	0.37			
Avail Cap(c_a), veh/h	905	4153	0	0	1806	805	996	0	886			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	14.3	5.3	0.0	0.0	9.4	8.5	9.9	0.0	9.2			
Incr Delay (d2), s/veh	5.8	0.1	0.0	0.0	0.5	0.2	1.4	0.0	0.6			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.2	0.2	0.0	0.0	0.7	0.2	0.9	0.0	0.4			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	20.1	5.4	0.0	0.0	9.9	8.7	11.3	0.0	9.8			
LnGrp LOS	C	A			A	A	B		A			
Approach Vol, veh/h		498			614			439				
Approach Delay, s/veh		6.1			9.8			10.8				
Approach LOS		A			A			B				

Timer - Assigned Phs	2	4	7	8
Phs Duration (G+Y+Rc), s	12.1	17.9	5.3	12.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	34.5	15.0	15.0
Max Q Clear Time (g_c+I1), s	6.2	4.5	2.4	5.8
Green Ext Time (p_c), s	1.4	2.8	0.0	2.2

Intersection Summary	
HCM 7th Control Delay, s/veh	8.9
HCM 7th LOS	A

Intersection	
Int Delay, s/veh	0.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	23	3	310	15	2	243
Future Vol, veh/h	23	3	310	15	2	243
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	24	3	326	16	2	256

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	466	171	0	0	342	0
Stage 1	334	-	-	-	-	-
Stage 2	132	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	530	849	-	-	1228	-
Stage 1	703	-	-	-	-	-
Stage 2	886	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	529	849	-	-	1228	-
Mov Cap-2 Maneuver	590	-	-	-	-	-
Stage 1	703	-	-	-	-	-
Stage 2	884	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.17	0	0.06
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	611	1228	-
HCM Lane V/C Ratio	-	-	0.045	0.002	-
HCM Ctrl Dly (s/v)	-	-	11.2	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	2	323	8	1	265
Future Vol, veh/h	12	2	323	8	1	265
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	13	2	340	8	1	279

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	486	174	0	0	348	0
Stage 1	344	-	-	-	-	-
Stage 2	142	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	516	845	-	-	1222	-
Stage 1	695	-	-	-	-	-
Stage 2	876	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	515	845	-	-	1222	-
Mov Cap-2 Maneuver	580	-	-	-	-	-
Stage 1	695	-	-	-	-	-
Stage 2	876	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.08	0	0.03
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	607	1222	-
HCM Lane V/C Ratio	-	-	0.024	0.001	-
HCM Ctrl Dly (s/v)	-	-	11.1	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	42	4	327	27	2	275
Future Vol, veh/h	42	4	327	27	2	275
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	44	4	344	28	2	289

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	507	186	0	0	373	0
Stage 1	358	-	-	-	-	-
Stage 2	149	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	500	830	-	-	1197	-
Stage 1	684	-	-	-	-	-
Stage 2	869	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	499	830	-	-	1197	-
Mov Cap-2 Maneuver	568	-	-	-	-	-
Stage 1	684	-	-	-	-	-
Stage 2	868	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.72	0	0.06
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	584	1197	-
HCM Lane V/C Ratio	-	-	0.083	0.002	-
HCM Ctrl Dly (s/v)	-	-	11.7	8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	2	352	7	2	315
Future Vol, veh/h	12	2	352	7	2	315
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	13	2	371	7	2	332

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	544	189	0	0	378	0
Stage 1	374	-	-	-	-	-
Stage 2	170	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	474	827	-	-	1192	-
Stage 1	671	-	-	-	-	-
Stage 2	849	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	473	827	-	-	1192	-
Mov Cap-2 Maneuver	550	-	-	-	-	-
Stage 1	671	-	-	-	-	-
Stage 2	847	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.39	0	0.05
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	578	1192	-
HCM Lane V/C Ratio	-	-	0.026	0.002	-
HCM Ctrl Dly (s/v)	-	-	11.4	8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	42	4	355	26	2	325
Future Vol, veh/h	42	4	355	26	2	325
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	44	4	374	27	2	342

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	563	201	0	0	401	0
Stage 1	387	-	-	-	-	-
Stage 2	175	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	461	813	-	-	1169	-
Stage 1	661	-	-	-	-	-
Stage 2	843	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	461	813	-	-	1169	-
Mov Cap-2 Maneuver	540	-	-	-	-	-
Stage 1	661	-	-	-	-	-
Stage 2	842	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	12.08	0	0.05
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	557	1169	-
HCM Lane V/C Ratio	-	-	0.087	0.002	-
HCM Ctrl Dly (s/v)	-	-	12.1	8.1	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	2	379	8	1	366
Future Vol, veh/h	12	2	379	8	1	366
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	13	2	399	8	1	385

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	598	204	0	0	407	0
Stage 1	403	-	-	-	-	-
Stage 2	195	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	438	809	-	-	1162	-
Stage 1	649	-	-	-	-	-
Stage 2	825	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	438	809	-	-	1162	-
Mov Cap-2 Maneuver	525	-	-	-	-	-
Stage 1	649	-	-	-	-	-
Stage 2	824	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	11.7	0	0.02
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	552	1162	-
HCM Lane V/C Ratio	-	-	0.027	0.001	-
HCM Ctrl Dly (s/v)	-	-	11.7	8.1	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	2.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	119	12	375	112	13	365
Future Vol, veh/h	119	12	375	112	13	365
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	125	13	395	118	14	384

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	673	256	0	0	513	0
Stage 1	454	-	-	-	-	-
Stage 2	219	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	393	749	-	-	1063	-
Stage 1	612	-	-	-	-	-
Stage 2	802	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	388	749	-	-	1063	-
Mov Cap-2 Maneuver	486	-	-	-	-	-
Stage 1	612	-	-	-	-	-
Stage 2	792	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	14.87	0	0.29
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	502	1063	-
HCM Lane V/C Ratio	-	-	0.275	0.013	-
HCM Ctrl Dly (s/v)	-	-	14.9	8.4	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	1.1	0	-

Intersection	
Int Delay, s/veh	0.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	44	8	479	45	9	475
Future Vol, veh/h	44	8	479	45	9	475
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	46	8	504	47	9	500

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	797	276	0	0	552	0
Stage 1	528	-	-	-	-	-
Stage 2	269	-	-	-	-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	-	-	-	-	-
Critical Hdwy Stg 2	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	328	728	-	-	1028	-
Stage 1	562	-	-	-	-	-
Stage 2	758	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	325	728	-	-	1028	-
Mov Cap-2 Maneuver	436	-	-	-	-	-
Stage 1	562	-	-	-	-	-
Stage 2	751	-	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	13.79	0	0.16
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	464	1028	-
HCM Lane V/C Ratio	-	-	0.118	0.009	-
HCM Ctrl Dly (s/v)	-	-	13.8	8.5	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.4	0	-

Appendix E

Fair Share Cost Estimates

CITY OF BARSTOW
SAN BERNARDINO COUNTY

INTERSECTION OF LENWOOD ROAD AND
MAIN STREET

Developer: _____ Prroject number 230116
Engineer: Transtech TM No./PM No.:
Phone No: Date: 05/05/26

PRELIMINARY OPINION OF PROBABLE COST

ITEM	QUANTITY	UNIT	UNIT COST ($)	AMOUNT
DEMO EX. MEDIAN ISLAND	1	LS	$4,000.00	$4,000.00
CONST. MEDIAN ISLAND	1	LS	$10,000.00	$10,000.00
STRIPING	1660	LF	$1.13	$1,875.80
STRIPING ARROW LEGEND	10	EA	$108.47	$1,084.70
STRIPING REMOVAL	1670	LF	$2.26	$3,774.20
SUBTOTAL				$20,734.70
MOBILIZATION			5%	$1,036.74
10% CONTINGENCY			10%	$2,073.47
City of Barstow Improvement Total				**$41,469.40**

ITEM	QUANTITY	UNIT	1670	AMOUNT
STRIPING	870	LF	$1.13	$983.10
STRIPING ARROW LEGEND	2	EA	$108.47	$216.94
STRIPING REMOVAL	830	LF	$2.26	$1,875.80
SUBTOTAL				$3,075.84
MOBILIZATION			5%	$153.79
10% CONTINGENCY			10%	$307.58
San Bernardion County Improvement Total				**$6,151.68**

CITY OF BARSTOW
SAN BERNARDINO COUNTY

INTERSECTION OF LENWOOD ROAD AND
LOVES TRAVEL STOP DRIVEWAY

Developer: _____ Project number 230116
Engineer: Transtech TM No./PM No.:
Phone No: Date: 05/05/26

PRELIMINARY OPINION OF PROBABLE COST

ITEM	QUANTITY	UNIT	UNIT COST ($)	AMOUNT
REMOVE ARROW LEGEND	1	SF	$100.00	$100.00
STRIPING ARROW LEGEND	1	EA	$108.47	$108.47
TRAFFIC SIGNAL INTERCON.	750	LF	$20.00	$15,000.00
TRAFFIC SIGNAL	1	LS	$500,000.00	$500,000.00
SUBTOTAL				$515,208.47
MOBILIZATION			5%	$25,760.42
10% CONTINGENCY			10%	$51,520.85
City of Barstow Improvement Total				**$592,489.74**

CITY OF BARSTOW
SAN BERNARDINO COUNTY

INTERSECTION OF LENWOOD ROAD AND
HIGH DESERT ROAD

Developer: _____ Project number 230116
Engineer: Transtech TM No./PM No.:
Phone No: Date: 05/05/26

PRELIMINARY OPINION OF PROBABLE COST

ITEM	QUANTITY	UNIT	UNIT COST ($)	AMOUNT
TRAFFIC SIGNAL	1	LS	$500,000.00	$500,000.00
SUBTOTAL				$500,000.00
MOBILIZATION			5%	$25,000.00
10% CONTINGENCY			10%	$50,000.00
City of Barstow Improvement Total				**$575,000.00**

CITY OF BARSTOW
SAN BERNARDINO COUNTY

INTERSECTION OF LENWOOD ROAD AND
CHEVRON DRIVEWAY

Developer: _____ Project number 230116
Engineer: Transtech TM No./PM No.:
Phone No: Date: 05/05/26

PRELIMINARY OPINION OF PROBABLE COST

ITEM	QUANTITY	UNIT	UNIT COST ($)	AMOUNT
TRAFFIC SIGNAL	1	LS	$500,000.00	$500,000.00
REMOVE ARROW LEGEND	1	SF	$100.00	$100.00
STRIPING ARROW LEGEND	1	EA	$108.47	$108.47
TRAFFIC SIGNAL INTERCON	750	LF	$20.00	$15,000.00
SUBTOTAL				$515,208.47
MOBILIZATION			5%	$25,760.42
10% CONTINGENCY			10%	$51,520.85
City of Barstow Improvement Total				**$592,489.74**

Appendix M
Conceptual Landscape Plan

ELECTRIC VEHICLE CHARGING STATION AND LOGISTICS FACILITY

LENWOOD ROAD
BARSTOW, CALIFORNIA

Landscape Development Plans

PLANTING NOTES

1. Installing Contractor shall verify quantities and areas to be planted prior to start of job. Notify Landscape Architect of any discrepancies prior to starting work.
2. All planting areas shall be completely free of trash, debris, rocks, and construction materials larger than 2", and shall be brought to finish grade before planting begins. Finish grade shall be 2" below surface of walks, curbs, and paved areas in planting areas where bark is to be installed. Grades shall be flush at catch basins. Surfaces shall be sloped with regard to drainage requirements so that water does not puddle or stand.
3. If additional soil is required, it shall be approved loam as similar to the existing soil as possible, free of debris and noxious weeds. Prior to placing additional soil, disc or scarify the sub-grade to a depth of at least 8" to permit bonding to the sub-grade. Spread and rototill a one inch layer of new soil, then proceed to place remaining soil and establish finish grade.
4. Landscape contractor must conduct a soils test to determine amendment quantities. For bid purposes, assume the following soil preparation for all planting areas: Apply nitrified wood product amendment at a minimum rate of 6 cubic yards per 1000 sq. ft. and commercial fertilizer (16-16-16 NPK or equal) at a rate of 30 lbs. per 1000 sq.ft. for shrub and ground cover areas, 20 lbs. per 1000 sq.ft. for lawn areas. Rototill to a depth of 6" to 10". Compact and settle all areas by application of heavy irrigation to a minimum depth of 12".
5. All plants shall be top quality nursery stock, free of disease and insect pests. Plants shall be normal size for container, vigorous, and true to name and variety. Plant holes shall be the same depth as the root ball, and three times the width for shrubs and four times the width for trees, see details.
6. Backfill for the plant holes shall be existing soil which has been previously amended. Apply Osmocote Controlled Release Formula fertilizer (18-6-12, 4 month formula) per manufacturer's recommendations.
7. When planted, crown of plant shall be 1-1/2" above finish grade. Prepare a water basin by forming a soil ring at least 3" high and as wide around the outer edge of the new plant hole. Water thoroughly to eliminate air pockets.
8. Upon completion of planting all containerized material, rake all shrub and ground cover areas to smooth grade, leaving watering basins intact. Prior to placement of rock mulch, all shrub and ground cover areas shall be treated with a pre-emergent herbicide (Ronstar or equal) per manufacturer's directions. Contractor to verify with manufacturer that pre-emergent will not adversely affect plant health.
9. Place a 3" layer of crushed rock mulch, or approved equal, in all shrub and ground cover areas.
10. Ground cover plants shall be planted in straight rows and evenly triangularly spaced a intervals noted in plant legend. Plant each rooted plant with its proportionate amount of rooting soil in a manner that will insure minimum disturbance of the root system.
11. Root barriers are required in all locations where trees are placed closer than 48" from curbs, sidewalks, concrete or asphalt. Refer to detail for specification and installation.
12. All standard trees require staking. Use two 2" diameter treated lodgepole stakes set at minimum of 12" into undisturbed subgrade below the root ball. Place ties and stakes only to the level which will hold the tree upright; proper height is 6" above the point where the tree will snap to an upright position by itself if the top is pulled to one side as if wind loaded and then released. Ties shall be cinch-tie flexible vinyl (or equal) nailed to stake with galvanized nails. Trim stakes to a height approximately 3" above ties. See also tree planting detail.
13. Contractor shall furnish all labor, material, equipment, and services required to maintain the landscape in an attractive condition as specified herein for a period of 90 days after final acceptance by Owner. Maintenance Period shall commence after all planting and related work has been completed to a substantial level of completion as determined by the Landscape Architect. A prime requirement of substantial completion is a fully operational irrigation system 100% healthy plant material. Any materials found to be dead, missing, or in poor condition during the Maintenance Period shall be replaced within 10 days of written notification by the Owner. Contractor shall not be held responsible for damage arising from acts of God, vandalism, theft, or negligence by Owner during the Maintenance Period.

IRRIGATION NOTES

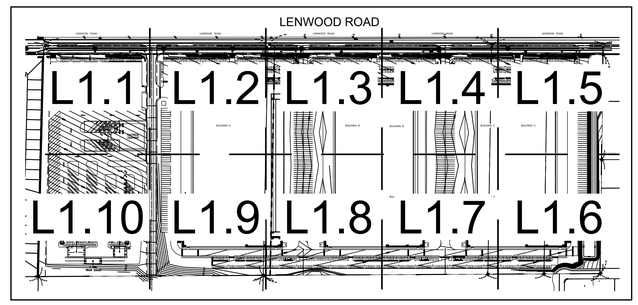
1. Installing Contractor shall verify all dimensions and areas prior to start of job. Intent is for full coverage of planting. Notify Landscape Architect of any discrepancies prior to trenching.
2. Plan is diagrammatic and not intended to show exact locations of piping and valves. Install valves and piping in landscape areas wherever possible. Install valves near curbs and sidewalks whenever possible. Sprinkler head spacings are shown accurately and shall be installed as indicated by the center of the symbol. Contractor is responsible for pipe sizing the irrigation system correctly.
3. All materials shall be new and in perfect condition. No deviations from the specifications will be allowed without prior written approval of Landscape Architect.
4. Mainline shall be SCH 40 PVC or CL 315 PVC at a minimum depth of 18" below finish grade. Lateral lines shall be SCH 40 PVC or CL 315 PVC at a minimum depth of 12" below grade. Use only the solvent supplied and recommended by the pipe manufacturer to make plastic pipe joints. Allow 15 minutes set-up curing time before moving or handling, and 24 hour curing time before water is placed in PVC pipe. Center load pipe with a small amount of backfill to prevent arching and whipping under pressure.
5. Where more than one pipe is installed in a trench, place pipe side by side at a minimum of 2" apart. Where soil conditions are rocky, place a 4" layer of fine material on bottom of trench prior to installation of pipe.
6. All valves shall be installed in Carson poly-plastic valve boxes with flush covers, or approved equal. Remote control valves shall be installed in Carson 1419 12" depth standard rectangular valve boxes; Drip zone remote control valves with filters and PRVs shall be installed in Carson 1220 12" depth jumbo rectangular valve boxes; Ball valves shall be installed in Carson 0011 10" diameter round valve boxes. Top of valve boxes shall be 1" above finish grade.
7. Securely mount controller as directed by manufacturer. Complete all electrical connections to controller. All control wire shall be #14 U.L. direct burial. Taped and bundled every 20'. Place at a minimum depth of 18", installing in common trenches with mainline whenever possible. Where wire crosses paving, encase wire in a SCH 40 PVC sleeve. Run one extra wire, of a different color, to the last valve on each mainline leg, looping the wire through each valve box and label for future use.
8. At valves, both wires shall be brought into valve box and shall have an excess loop of 24" before being spliced into the solenoid pigtails using Pentite connectors.
9. After valves have been installed, test all mainlines for leaks at full line pressure for a period of 2 hours with couplings exposed and pipe sections center loaded. Before testing, fill line with water for at least 24 hours. Provisions shall be made for thoroughly bleeding the line of air and debris. Correct all defects and retest.
10. All excavations shall be backfilled with fine material to 4" above crown of pipe and tamped; then fill with earth and tamp. All trenches shall be left flush with adjoining grade and in a firm unyielding condition. Any subsequent settling shall be corrected by the Contractor.
11. Install systems without drip emitters. Open valves. Flush and operate each valve system at full pressure until all debris is removed. Install drip emitters.
12. Test to determine that all sprinklers function according to manufacturer's data and give full coverage according to intent of drawing. Replace and adjust as necessary. Additional heads shall be provided by the Contractor to cover areas shown to be deficient by test.
13. Contractor shall set initial program for the controller. Contractor shall provide Owner with the instruction manual and demonstrate its operation to the Owner.
14. Contractor shall guarantee all parts and labor for one year with exception of damage caused by vandalism, theft, adverse natural conditions, or anything beyond the control of the Contractor.

GENERAL NOTES

1. Landscape areas not covered with live material shall be covered with a 3" layer of rock mulch.
2. Adjust location of plant material to avoid interference with building numbers and addresses at mature height.
3. Provide a minimum three foot clearance around all fire protection equipment and associated landscape apparatus.
4. All trees planted adjacent to fire lanes shall have their canopies maintained at 13'-6" or higher where they overhang into the required width of the fire lane.
5. Landscaping shall be placed and pruned as to retain the required clearance for ladder access to windows around the building and to not interfere at maturity with 13'-6" emergency vehicle access clearance.
6. Landscape contractor shall provide protection for all concrete surfaces when installing landscape materials. Staining of concrete from dirt, tire marks and damaged curbs will not be permitted. All damaged surfaces shall be cleaned or replaced.
7. Landscape contractor shall coordinate and install the sleeving and stubbing for irrigation crossing parking lots and paved areas.
8. Landscape contractor shall grade all landscape areas 2% min. to drain to the street or drain inlet. Landscape contractor is responsible to provide positive drainage away from all buildings. All planters and planter islands should be crowned to prevent standing water.
9. Quantities found in the plant legend are for contractor convenience. In the event that the quantities in the legend differ from those found on the plans, the quantities found on the plans will take precedence.

DRAWING INDEX

L0.1 - COVER SHEET
L1.1 - PLANTING PLAN A
L1.2 - PLANTING PLAN B
L1.3 - PLANTING PLAN C
L1.4 - PLANTING PLAN D
L1.5 - PLANTING PLAN E
L1.6 - PLANTING PLAN F
L1.7 - PLANTING PLAN G
L1.8 - PLANTING PLAN H
L1.9 - PLANTING PLAN I
L1.10 - PLANTING PLAN J
L1.11 - PLANT SCHEDULE AND NOTES



VICINITY MAP

YAMASAKI
LANDSCAPE ARCHITECTURE

RMW
Architecture
Interiors

1718 Third Street
Suite 101
Sacramento
California 95811

Office
916 449-1400

rmw.com

OWNER / DEVELOPER:

PRELIMINARY DESIGN DRAWINGS FOR:

ELECTRIC VEHICLE CHARGING STATION AND LOGISTICS FACILITY

SAN BERNARDINO COUNTY, CALIFORNIA

approved for the owner by :

approved for the architect by :

issue :	description :	date :
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1	ISSUED FOR REVIEW	09-16-2025

GENERAL CONTRACTOR:

drawn by : STAFF plot date : 09-16-2025

checked by : JMA

stamp

LICENSED LANDSCAPE ARCHITECT
THERESA V. ZARO 5174
8/26
4/30/25
STATE OF CALIFORNIA

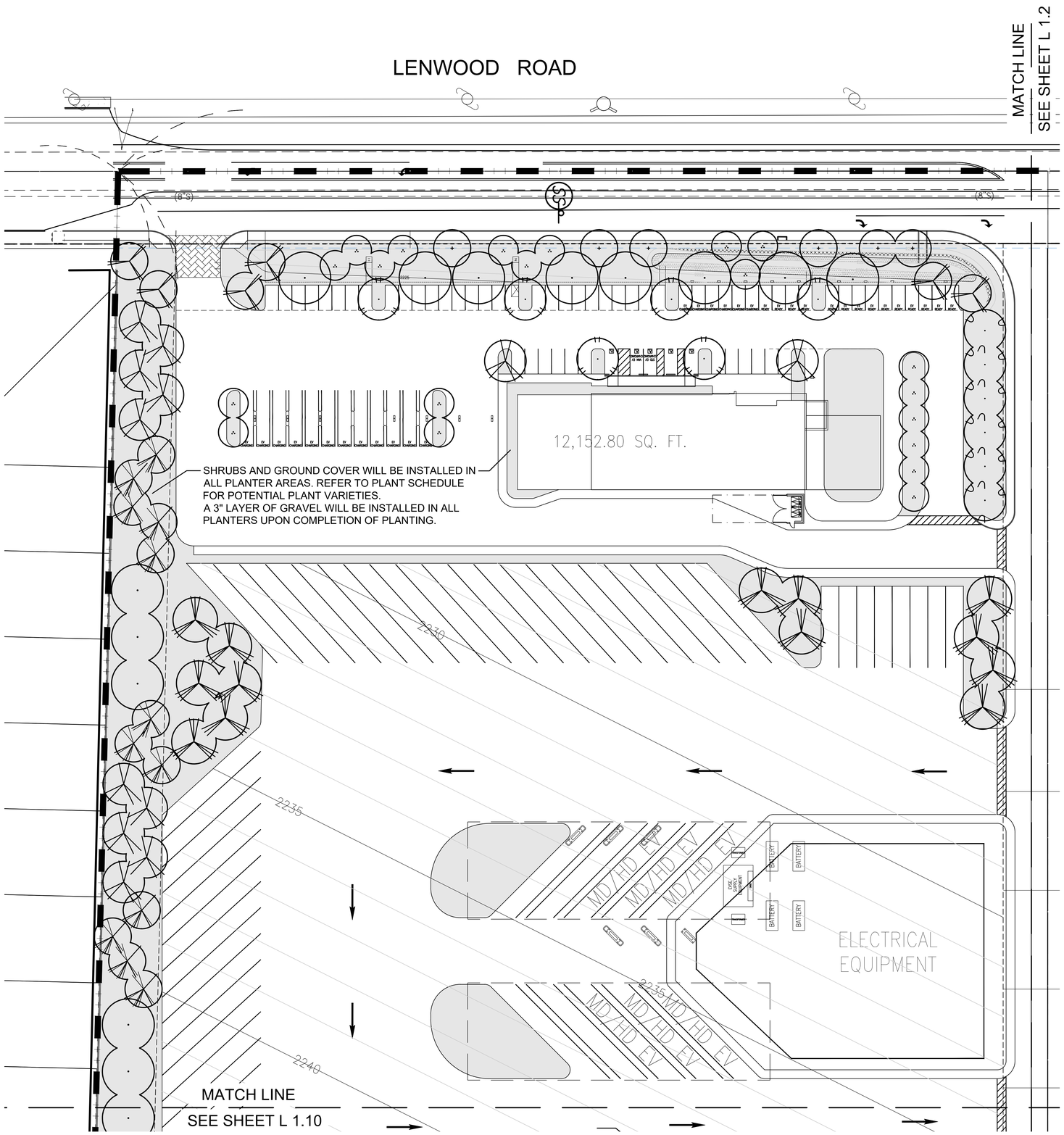
scale : AS NOTED

project number : 2234046.00

COVER SHEET

sheet no. :

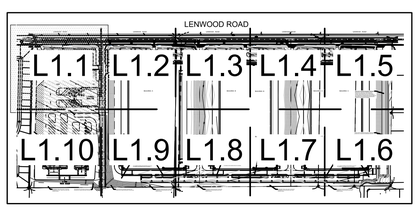
L0.1



PLANT SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	SIZE	H X W	WATER USE
TREES				
	Cercidium x 'Desert Museum' / Desert Museum Palo Verde	24" box	25'x25'	LOW
	Chilopsis linearis 'Monhews' / Timeless Beauty Desert Willow	24" box	20'x20'	LOW
	Fraxinus oxycarpa 'Raywood' / Raywood Ash	15 gal	40'x30'	LOW
	Pinus eldarica / Eldarica Pine	15 gal	40'x25'	LOW
	Pinus halepensis / Allepo Pine	15 gal	50'x30'	LOW
	Pistacia x 'Red Push' / Red Push Pistache	24" box	35'X30'	LOW
	Prosopis x 'Phoenix' / Phoenix Thornless Mesquite	15 gal	30'X30'	LOW
	Quercus chrysolepis / Canyon Live Oak	15 gal	50'x40'	LOW
	Quercus suber / Cork Oak	15 gal	50'x40'	LOW
	x Chitalpa tashkentensis / Chitalpa	15 gal	25'x25'	LOW

SEE SHEET L1.11 FOR COMPLETE PLANT SCHEDULE



VICINITY MAP

0' 60' 30' 120'
SCALE: 1"=30'-0"

NORTH

YAMASAKI LANDSCAPE ARCHITECTURE

RMW
Architecture
Interiors

1718 Third Street
Suite 101
Sacramento
California 95811

Office
916 449-1400

rmw.com

OWNER / DEVELOPER:

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SAN BERNARDINO COUNTY, CALIFORNIA

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approved for the architect by :

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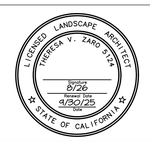
1	ISSUED FOR REVIEW	09-16-2025

GENERAL CONTRACTOR:

drawn by : STAFF plot date : 09-16-2025

checked by : JMA

stamp



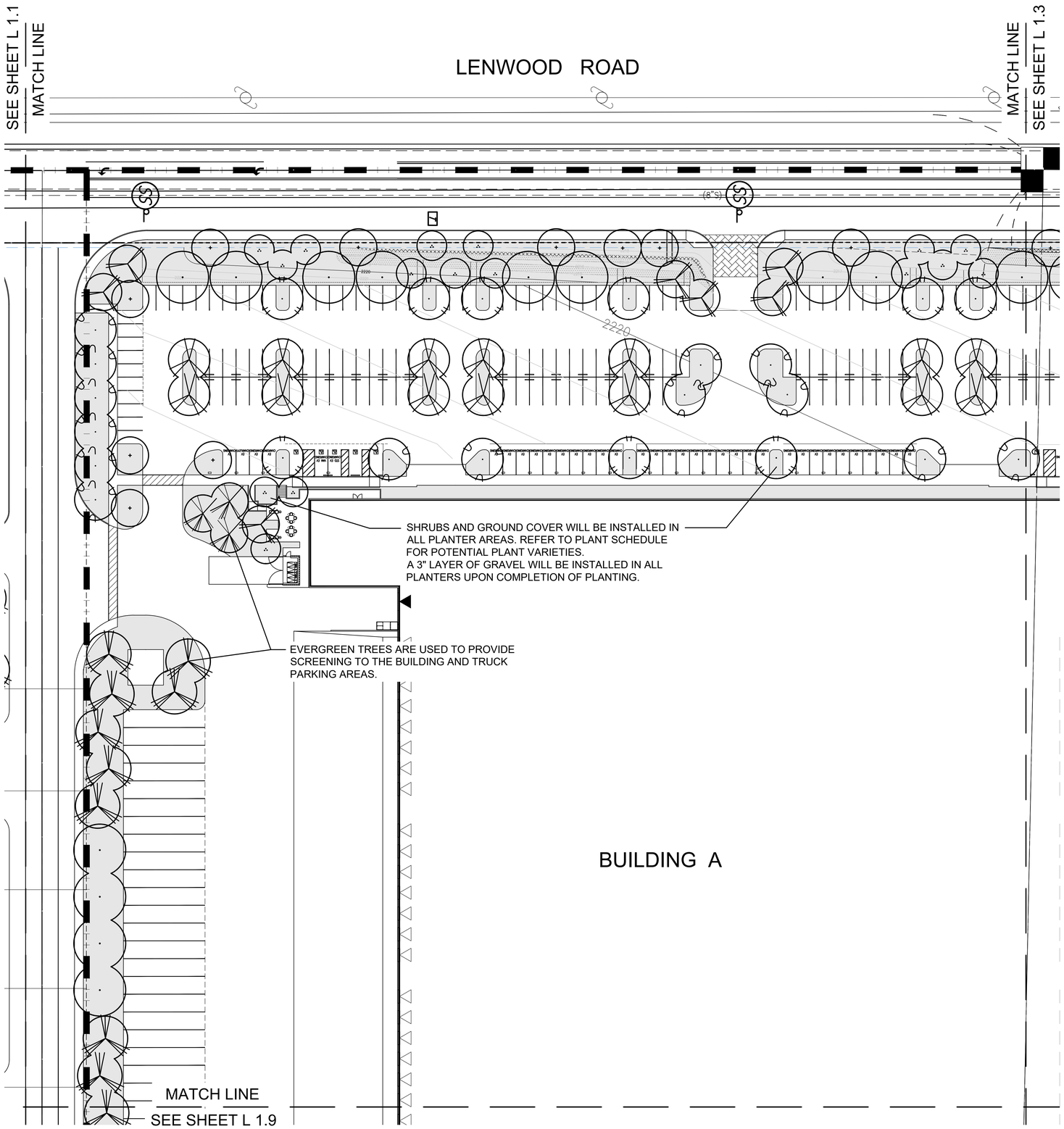
scale : AS NOTED

project number : 2234046.00

PLANTING PLAN A

sheet no. :

L1.1



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	Fraxinus oxycarpa 'Raywood' / Raywood Ash	15 gal	40'x30'	LOW
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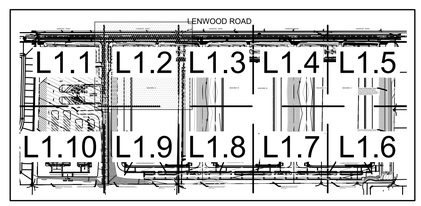
	Pinus halepensis / Allepo Pine	15 gal	50'x30'	LOW
	Pistacia x 'Red Push' / Red Push Pistache	24" box	35'X30'	LOW
	Prosopis x 'Phoenix' / Phoenix Thornless Mesquite	15 gal	30'X30'	LOW
	Quercus chrysolepis / Canyon Live Oak	15 gal	50'x40'	LOW
	Quercus suber / Cork Oak	15 gal	50'x40'	LOW
	x Chitalpa tashkentensis / Chitalpa	15 gal	25'x25'	LOW

SEE SHEET L1.11 FOR COMPLETE PLANT SCHEDULE



VICINITY MAP

0' 60' 30' 120'

SCALE: 1"=30'-0"

NORTH

YAMASAKI LANDSCAPE ARCHITECTURE

RMW
Architecture
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1	ISSUED FOR REVIEW	09-16-2025

GENERAL CONTRACTOR:

drawn by : STAFF plot date : 09-16-2025

checked by : JMA

stamp

LICENSED LANDSCAPE ARCHITECT
TERESA V. ZARO #3124
Expires
8/26
4/30/25
DATE
STATE OF CALIFORNIA

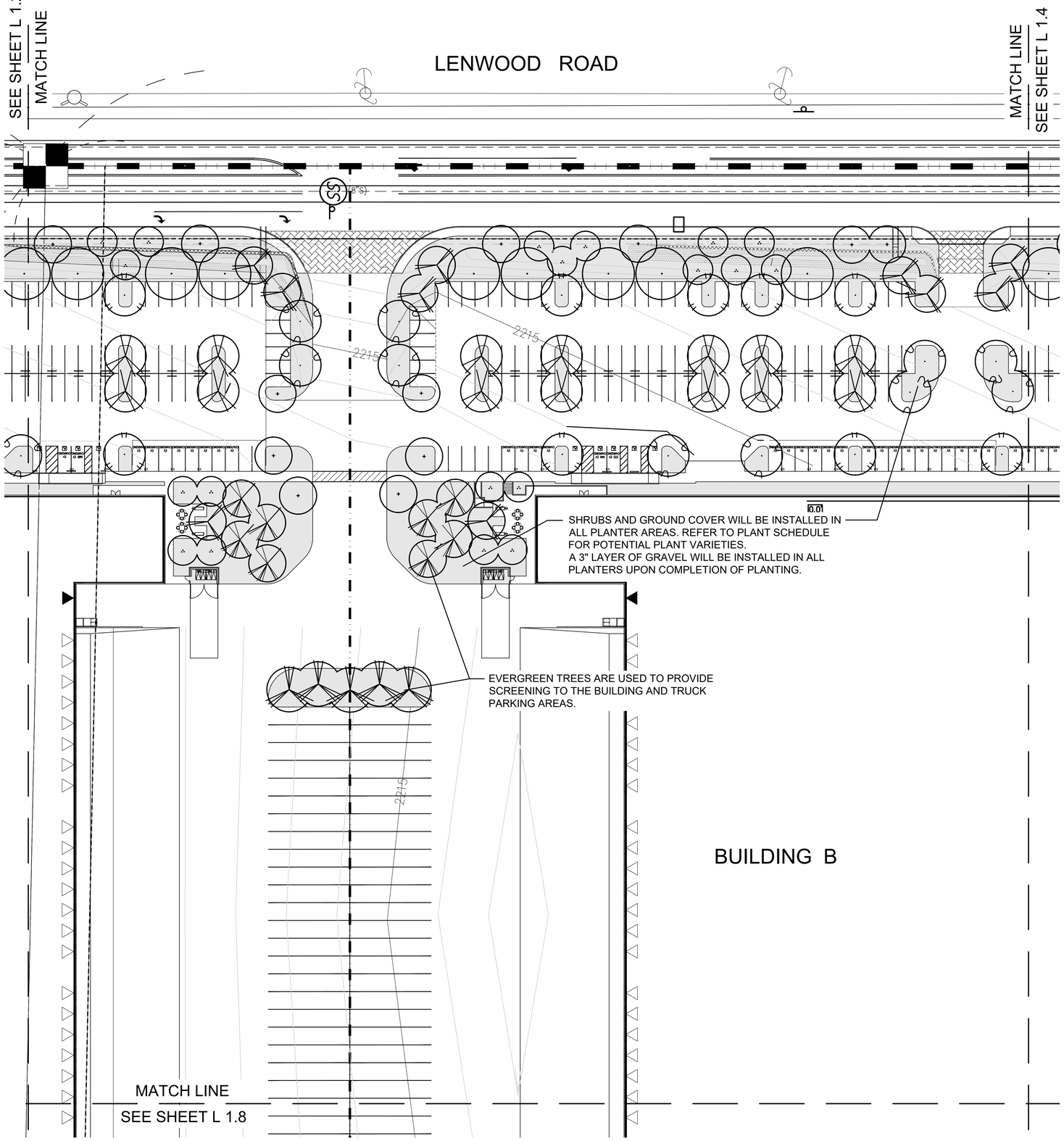
scale : AS NOTED

project number : 2234046.00

PLANTING PLAN B

sheet no. :

L1.2



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	Quercus suber / Cork Oak	15 gal	50'x40'	LOW
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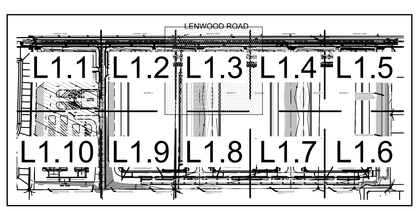
SEE SHEET L1.11 FOR COMPLETE PLANT SCHEDULE



VICINITY MAP

0' 60' 30' 120'
SCALE: 1"=30'-0"

NORTH

YAMASAKI
LANDSCAPE ARCHITECTURE

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OWNER / DEVELOPER:

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SAN BERNARDINO COUNTY, CALIFORNIA

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approved for the architect by :

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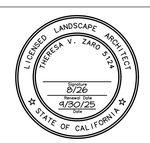
1	ISSUED FOR REVIEW	09-16-2025

GENERAL CONTRACTOR:

drawn by : STAFF plot date : 09-16-2025

checked by : JMA

stamp



scale : AS NOTED

project number : 2234046.00

PLANTING PLAN C

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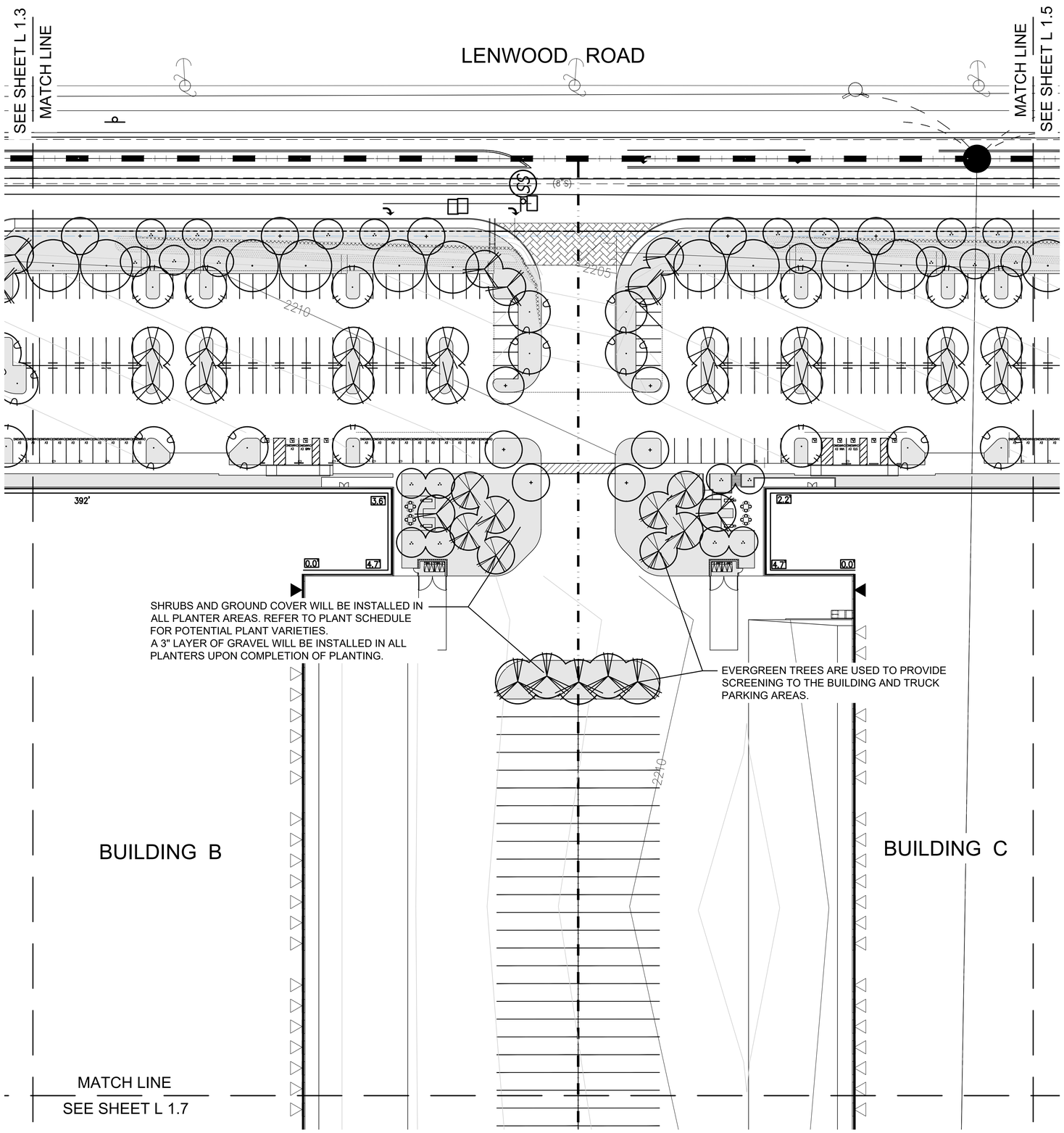
L1.3



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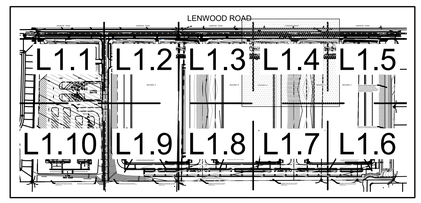
SEE SHEET L1.11 FOR COMPLETE PLANT SCHEDULE



VICINITY MAP

0' 60' 30' 120'
SCALE: 1"=30'-0"

NORTH

YAMASAKI
LANDSCAPE ARCHITECTURE

RMW
Architecture
Interiors

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California 95811

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OWNER / DEVELOPER:

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SAN BERNARDINO COUNTY, CALIFORNIA

approved for the owner by :

approved for the architect by :

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1	ISSUED FOR REVIEW	09-16-2025

GENERAL CONTRACTOR:

drawn by : STAFF plot date : 09-16-2025

checked by : JMA

stamp

LICENSED LANDSCAPE ARCHITECT
THERESA V. ZARO 5124
Expiration Date
8/26
Renewal Date
4/30/25
STATE OF CALIFORNIA

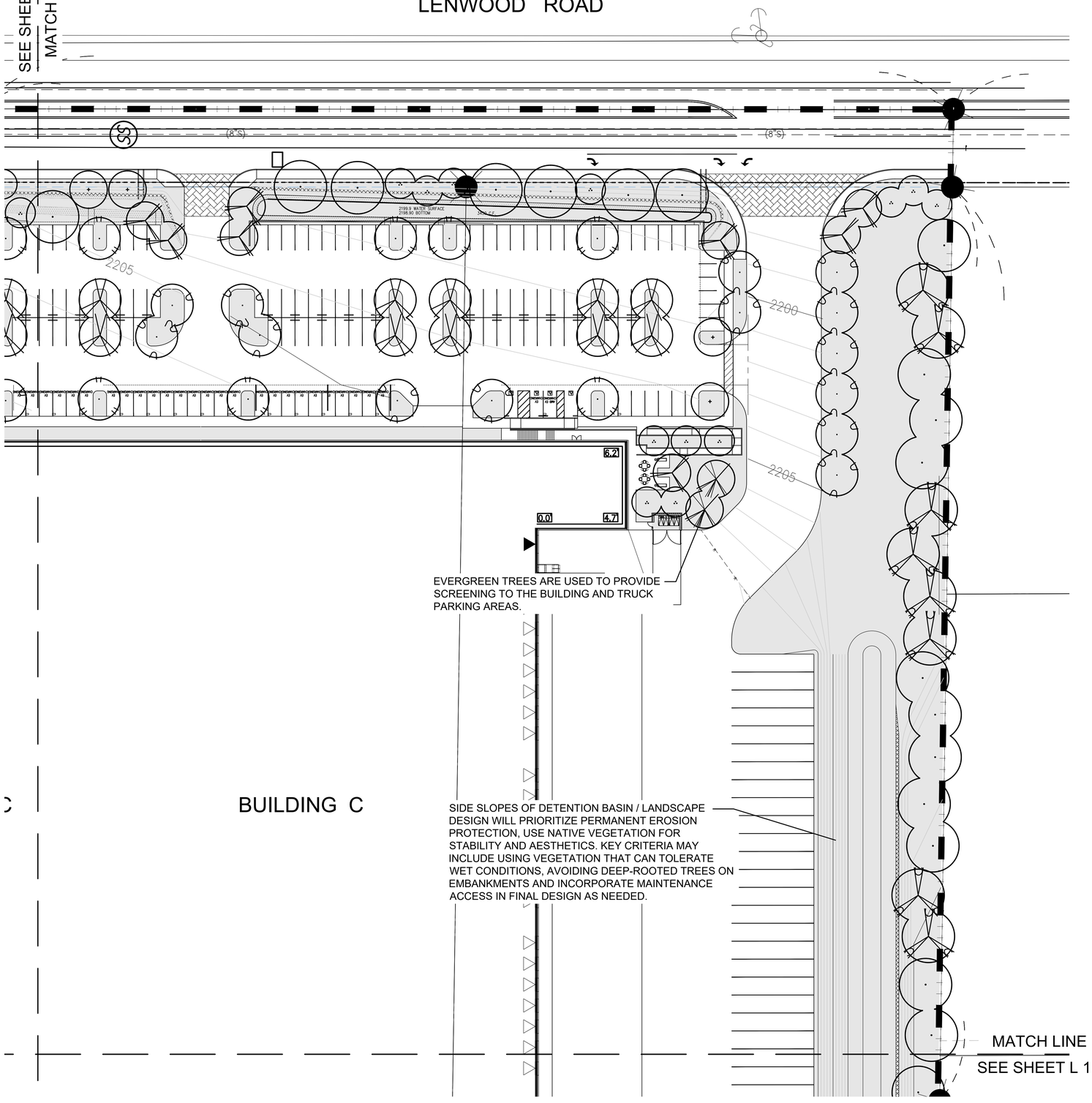
scale : AS NOTED

project number : 2234046.00

PLANTING PLAN D

sheet no. :

L1.4



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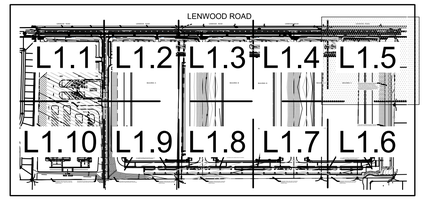
	Quercus chrysolepis / Canyon Live Oak	15 gal	50'x40'	LOW
	Quercus suber / Cork Oak	15 gal	50'x40'	LOW
	x Chitalpa tashkentensis / Chitalpa	15 gal	25'x25'	LOW

SEE SHEET L1.11 FOR COMPLETE PLANT SCHEDULE



VICINITY MAP

0' 60' 30' 120'
SCALE: 1"=30'-0"

NORTH

YAMASAKI LANDSCAPE ARCHITECTURE

RMW
Architecture
Interiors

1718 Third Street
Suite 101
Sacramento
California 95811

Office
916 449-1400

rmw.com

OWNER / DEVELOPER:

PRELIMINARY DESIGN DRAWINGS FOR:

ELECTRIC VEHICLE CHARGING STATION AND LOGISTICS FACILITY

SAN BERNARDINO COUNTY, CALIFORNIA

approved for the owner by :

approved for the architect by :

issue :	description :	date :
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1	ISSUED FOR REVIEW	09-16-2025

GENERAL CONTRACTOR:

drawn by : STAFF plot date : 09-16-2025

checked by : JMA

stamp

LICENSED LANDSCAPE ARCHITECT
REBECCA V. ZARO 5174
8/26
RENEWAL DATE
4/30/25
DATE
STATE OF CALIFORNIA

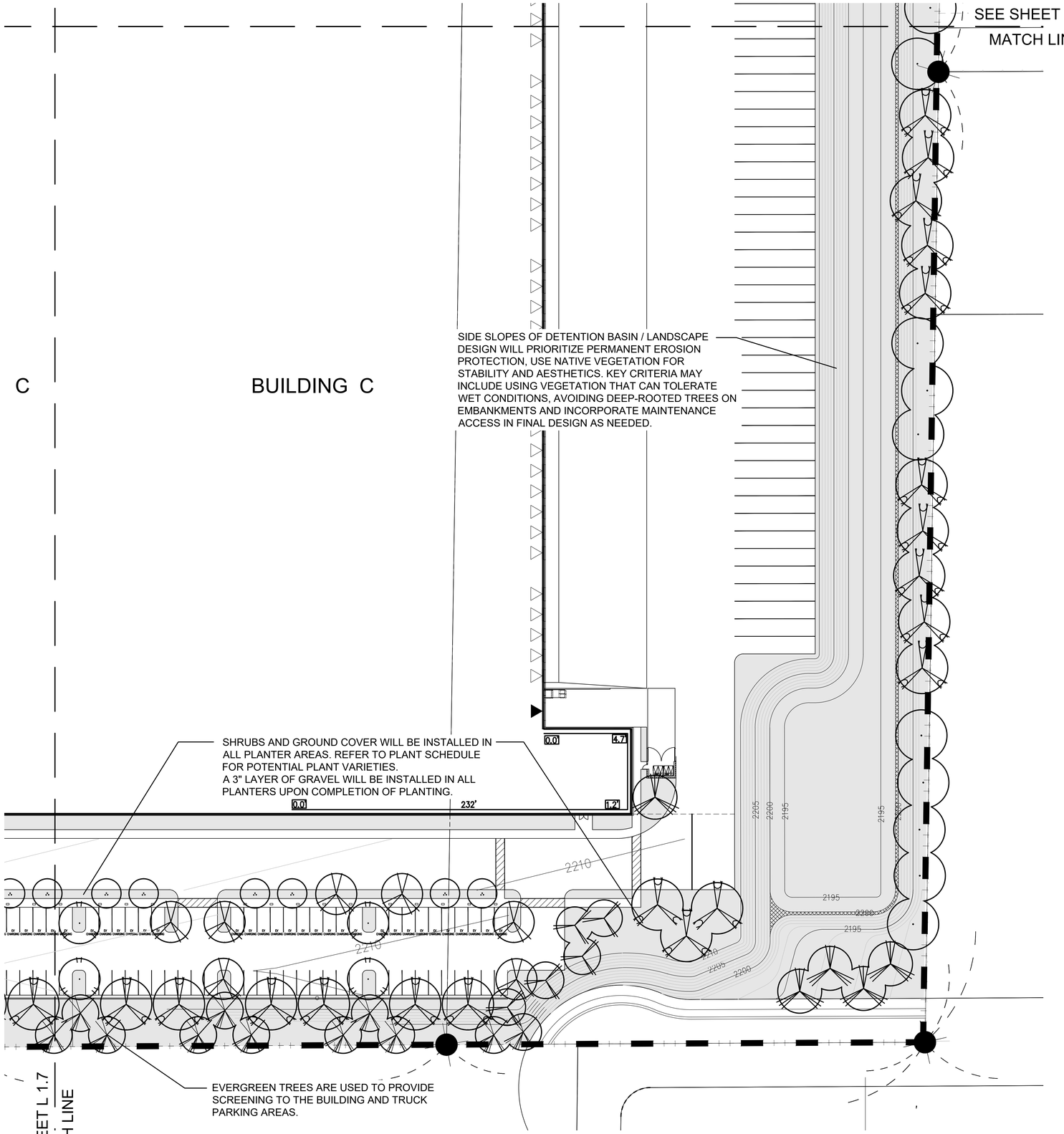
scale : AS NOTED

project number : 2234046.00

PLANTING PLAN E

sheet no. :

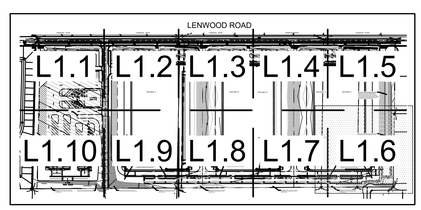
L1.5



PLANT SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	SIZE	H X W	WATER USE
TREES				
	Cercidium x 'Desert Museum' / Desert Museum Palo Verde	24" box	25'x25'	LOW
	Chilopsis linearis 'Monhews' / Timeless Beauty Desert Willow	24" box	20'x20'	LOW
	Fraxinus oxycarpa 'Raywood' / Raywood Ash	15 gal	40'x30'	LOW
	Pinus eldarica / Eldarica Pine	15 gal	40' x25'	LOW
	Pinus halepensis / Allepo Pine	15 gal	50'x30'	LOW
	Pistacia x 'Red Push' / Red Push Pistache	24" box	35'X30'	LOW
	Prosopis x 'Phoenix' / Phoenix Thornless Mesquite	15 gal	30'X30'	LOW
	Quercus chrysolepis / Canyon Live Oak	15 gal	50'x40'	LOW
	Quercus suber / Cork Oak	15 gal	50'x40'	LOW
	x Chitalpa tashkentensis / Chitalpa	15 gal	25'x25'	LOW

SEE SHEET L1.11 FOR COMPLETE PLANT SCHEDULE



VICINITY MAP

0' 60'
30' 120'
SCALE: 1"=30'-0"

NORTH

YAMASAKI
LANDSCAPE ARCHITECTURE

RMW
Architecture
Interiors

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Suite 101
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California 95811

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GENERAL CONTRACTOR:

drawn by : STAFF plot date : 09-16-2025

checked by : JMA

stamp

LICENSED LANDSCAPE ARCHITECT
THERESA V. ZARO 5124
Renewal Date
8/26
Renewal Date
9/30/25
STATE OF CALIFORNIA

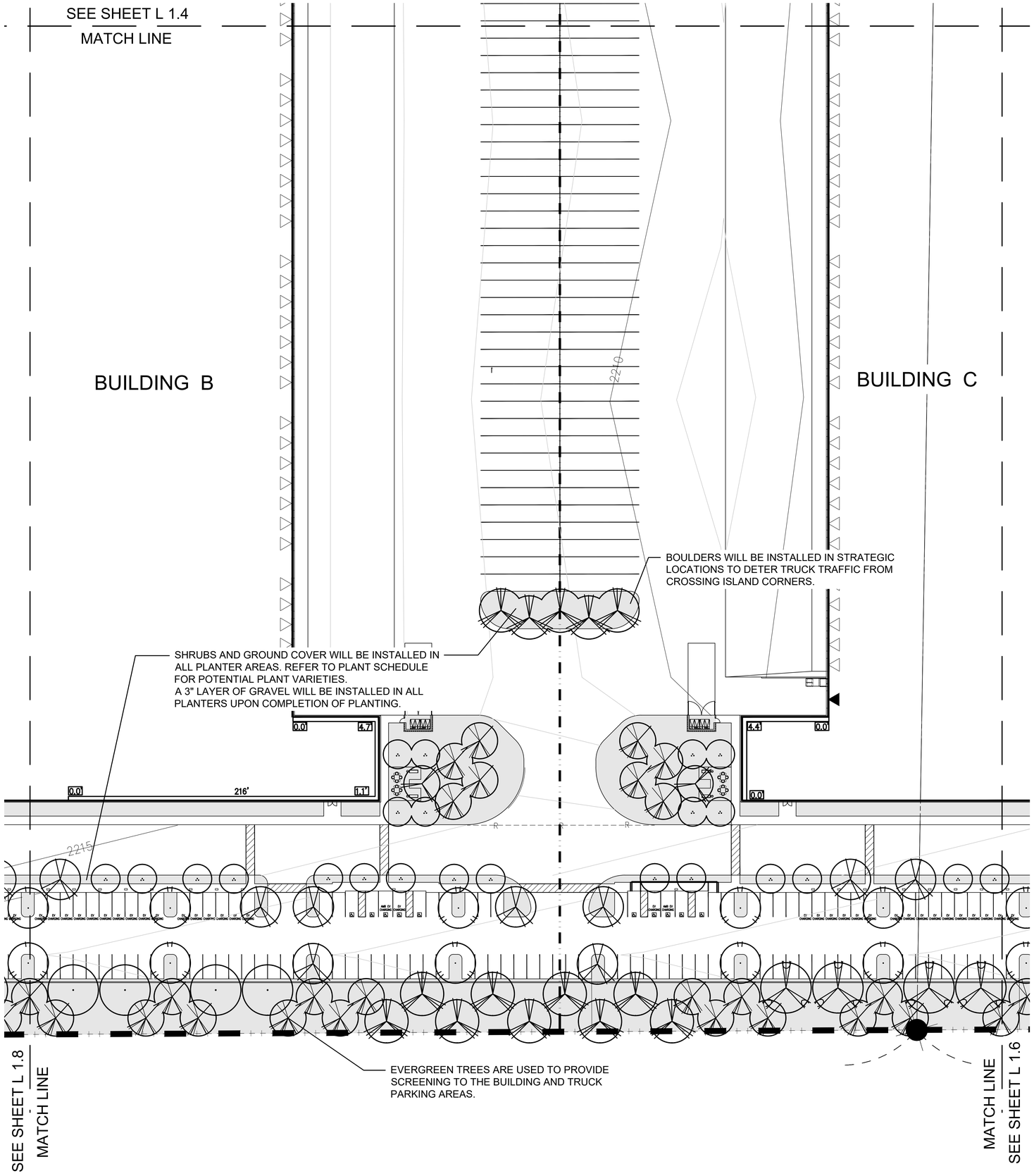
scale : AS NOTED

project number : 2234046.00

PLANTING PLAN F

sheet no. :

L1.6



PLANT SCHEDULE

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TREES				
	Cercidium x 'Desert Museum' / Desert Museum Palo Verde	24" box	25'x25'	LOW
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	Fraxinus oxycarpa 'Raywood' / Raywood Ash	15 gal	40'x30'	LOW
	Pinus eldarica / Eldarica Pine	15 gal	40' x25'	LOW
	Pinus halepensis / Allepo Pine	15 gal	50'x30'	LOW
	Pistacia x 'Red Push' / Red Push Pistache	24" box	35'X30'	LOW
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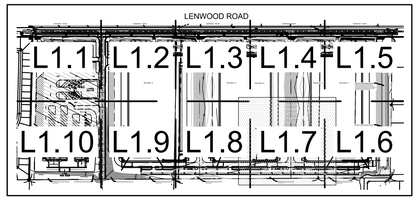
	Quercus chrysolepis / Canyon Live Oak	15 gal	50'x40'	LOW
	Quercus suber / Cork Oak	15 gal	50'x40'	LOW
	x Chitalpa tashkentensis / Chitalpa	15 gal	25'x25'	LOW

SEE SHEET L1.11 FOR COMPLETE PLANT SCHEDULE



VICINITY MAP

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YAMASAKI LANDSCAPE ARCHITECTURE

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GENERAL CONTRACTOR:

drawn by : STAFF plot date : 09-16-2025

checked by : JMA

stamp

LICENSED LANDSCAPE ARCHITECT
TERESA V. ZARO 5124
REN 8/26
DATE 8/30/25
STATE OF CALIFORNIA

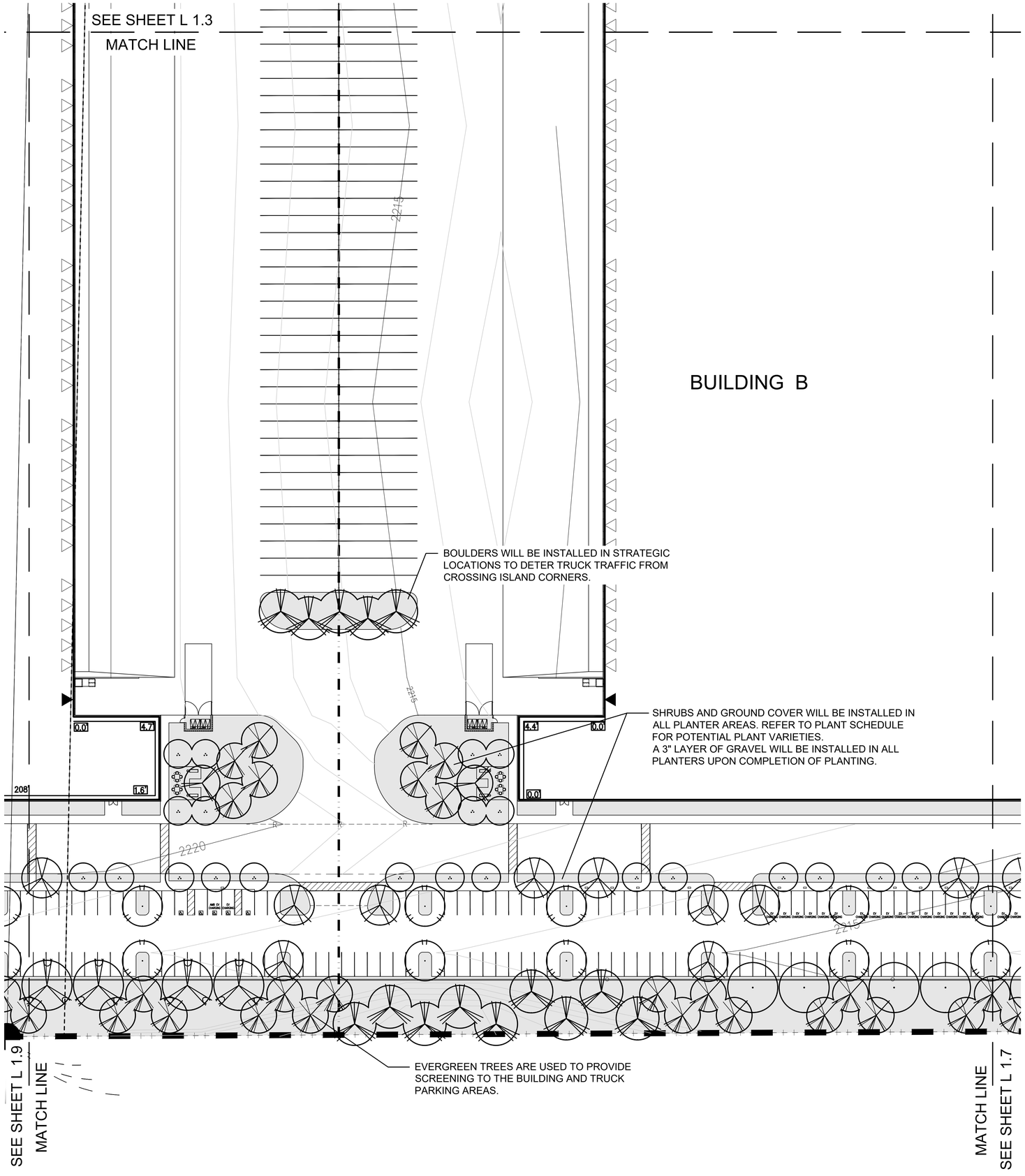
scale : AS NOTED

project number : 2234046.00

PLANTING PLAN G

sheet no. :

L1.7



PLANT SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	SIZE	H X W	WATER USE
TREES				
	Cercidium x 'Desert Museum' / Desert Museum Palo Verde	24" box	25'x25'	LOW
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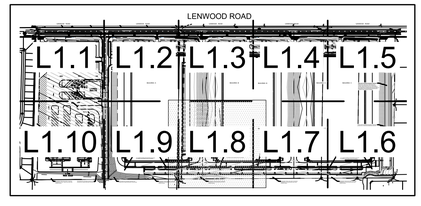
	Quercus chrysolepis / Canyon Live Oak	15 gal	50'x40'	LOW
	Quercus suber / Cork Oak	15 gal	50'x40'	LOW
	x Chitalpa tashkentensis / Chitalpa	15 gal	25'x25'	LOW

SEE SHEET L1.11 FOR COMPLETE PLANT SCHEDULE



VICINITY MAP

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SCALE: 1"=30'-0"

NORTH

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Architecture
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SAN BERNARDINO COUNTY, CALIFORNIA

approved for the owner by :

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1	ISSUED FOR REVIEW	09-16-2025

GENERAL CONTRACTOR:

drawn by : STAFF plot date : 09-16-2025

checked by : JMA

stamp

LICENSED LANDSCAPE ARCHITECT
TERESA V. ZARO 5124
Renewal
8/26
9/30/25
Date
STATE OF CALIFORNIA

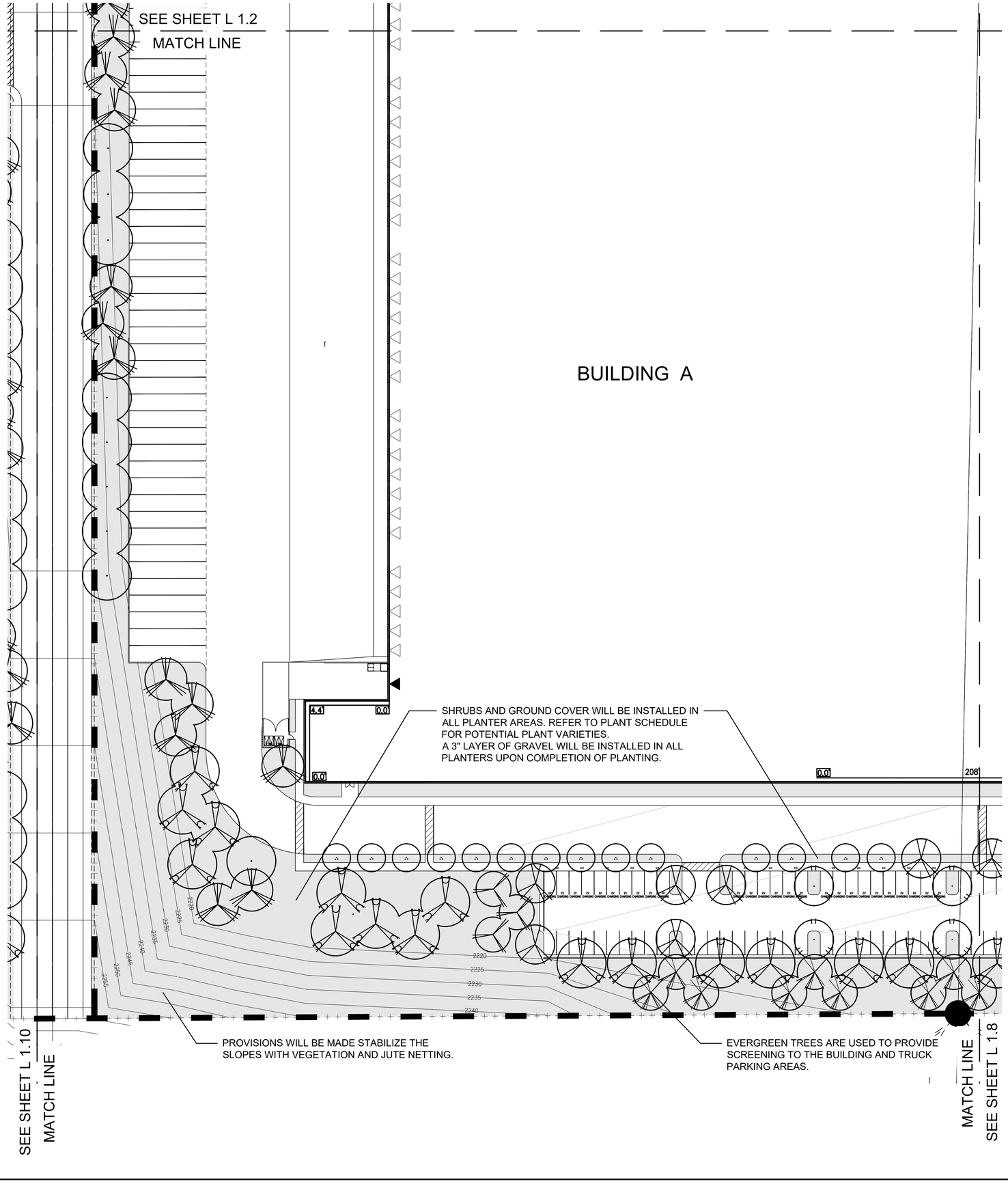
scale : AS NOTED

project number : 2234046.00

PLANTING PLAN H

sheet no. :

L1.8



PLANT SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	SIZE	H X W	WATER USE
TREES				
	Cercidium x 'Desert Museum' / Desert Museum Palo Verde	24" box	25'x25'	LOW
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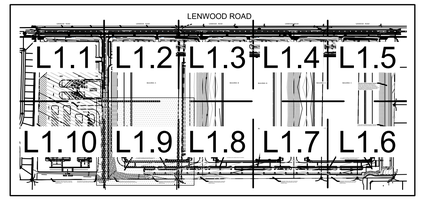
	Quercus suber / Cork Oak	15 gal	50'x40'	LOW
	x Chitalpa tashkentensis / Chitalpa	15 gal	25'x25'	LOW

SEE SHEET L1.11 FOR COMPLETE PLANT SCHEDULE



VICINITY MAP

0' 60' 30' 120'
SCALE: 1"=30'-0"

NORTH

YAMASAKI LANDSCAPE ARCHITECTURE

RMW
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SAN BERNARDINO COUNTY, CALIFORNIA

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GENERAL CONTRACTOR:

drawn by : STAFF plot date : 09-16-2025

checked by : JMA

stamp

LICENSED LANDSCAPE ARCHITECT
TERESA V. ZARO 3124
Renewal
8/26
9/30/25
Date
STATE OF CALIFORNIA

scale : AS NOTED

project number : 2234046.00

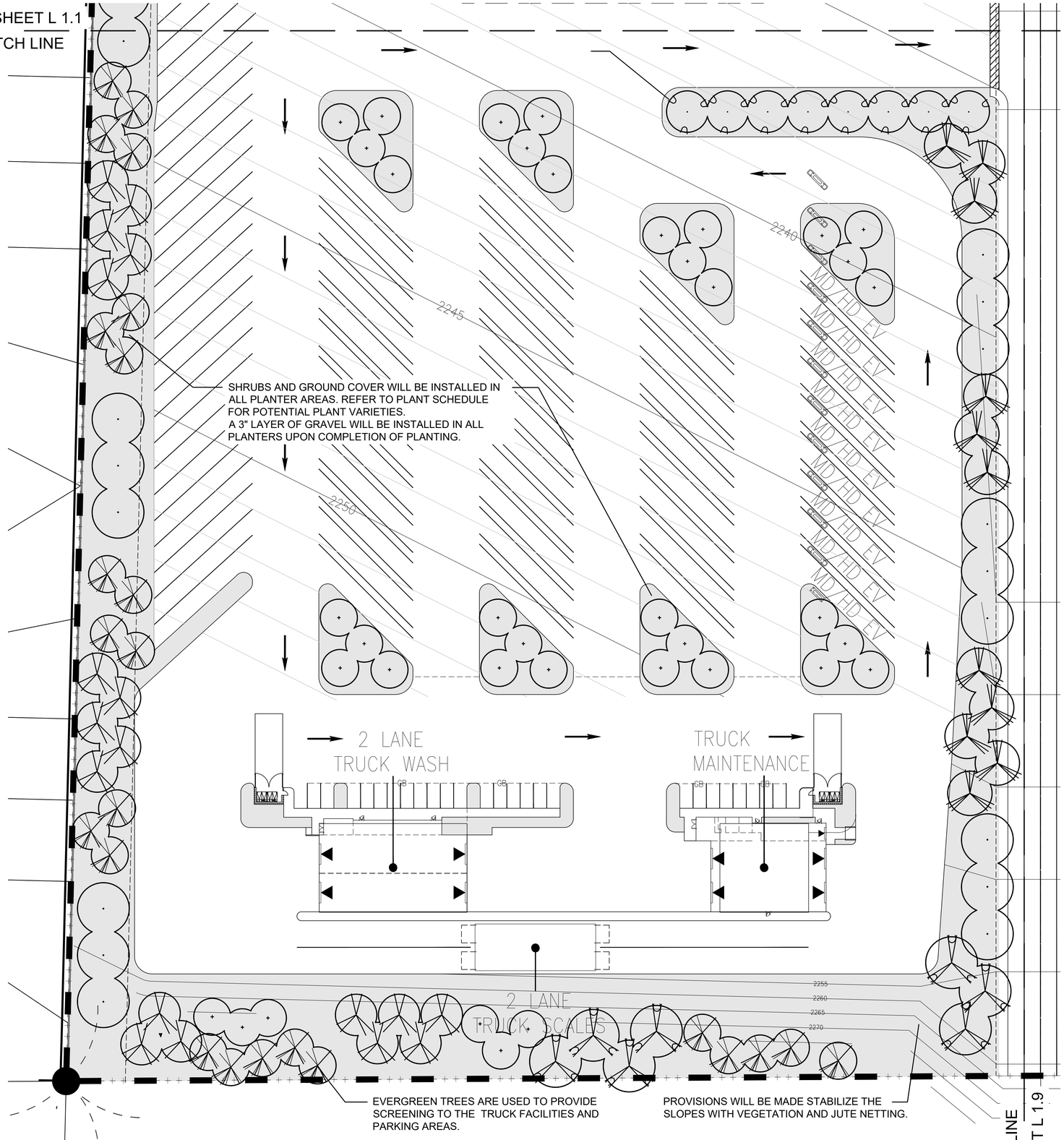
PLANTING PLAN I

sheet no. :

L1.9

SEE SHEET L 1.1

MATCH LINE



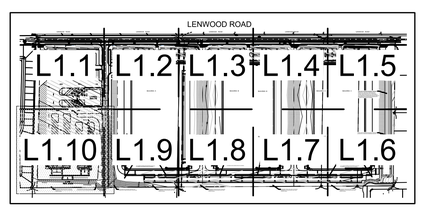
MATCH LINE

SEE SHEET L 1.9

PLANT SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	SIZE	H X W	WATER USE
TREES				
	Cercidium x `Desert Museum` / Desert Museum Palo Verde	24" box	25'x25'	LOW
	Chilopsis linearis `Monhews` / Timeless Beauty Desert Willow	24" box	20'x20'	LOW
	Fraxinus oxycarpa `Raywood` / Raywood Ash	15 gal	40'x30'	LOW
	Pinus eldarica / Eldarica Pine	15 gal	40' x25'	LOW
	Pinus halepensis / Allepo Pine	15 gal	50'x30'	LOW
	Pistacia x 'Red Push' / Red Push Pistache	24" box	35'X30'	LOW
	Prosopis x 'Phoenix' / Phoenix Thornless Mesquite	15 gal	30'X30'	LOW
	Quercus chrysolepis / Canyon Live Oak	15 gal	50'x40'	LOW
	Quercus suber / Cork Oak	15 gal	50'x40'	LOW
	x Chitalpa tashkentensis / Chitalpa	15 gal	25'x25'	LOW

SEE SHEET L1.11 FOR COMPLETE PLANT SCHEDULE



VICINITY MAP

0' 60'

30' 120'

SCALE: 1"=30'-0"

NORTH

YAMASAKI LANDSCAPE ARCHITECTURE

RMW
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1	ISSUED FOR REVIEW	09-16-2025

GENERAL CONTRACTOR:

drawn by : STAFF plot date : 09-16-2025

checked by : JMA

stamp

LICENSED LANDSCAPE ARCHITECT
THERESA V. ZARO 5124
Registered Date 8/26
Renewal Date 4/30/25
STATE OF CALIFORNIA

scale : AS NOTED

project number : 2234046.00

PLANTING PLAN J

sheet no. :

L1.10

PLANT SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	SIZE	H X W	WATER USE
TREES				
	Cercidium x ´Desert Museum´ / Desert Museum Palo Verde	24" box	25´x25´	LOW
	Chilopsis linearis ´Monhews´ / Timeless Beauty Desert Willow	24" box	20'x20'	LOW
	Fraxinus oxycarpa ´Raywood´ / Raywood Ash	15 gal	40´x30´	LOW
	Pinus eldarica / Eldarica Pine	15 gal	40' x25'	LOW
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	Quercus chrysolepis / Canyon Live Oak	15 gal	50´x40´	LOW
	Quercus suber / Cork Oak	15 gal	50´x40´	LOW
	x Chitalpa tashkentensis / Chitalpa	15 gal	25´x25´	LOW

SYMBOL	BOTANICAL / COMMON NAME	SIZE	H X W	WATER USE
SHRUBS				
	Caesalpinea mexicana / Mexican Bird of Paradise	5 gal	8´x8´	LOW
	Calliandra eriophylla / Fairy Duster	5 gal	2´x4´	LOW
	Callistemon viminalis ´Little John´ / Dwarf Weeping Bottlebrush	5 gal	3´x5´	LOW
	Dasylirion wheeleri / Grey Desert Spoon	5 gal	5´x4´	LOW
	Echinocactus grusonii / Golden Barrel Cactus	5 gal	2'x3'	LOW
	Fouquieria splendens / Ocotillo	5 gal	12'x8'	LOW
	Hesperaloe parviflora / Red Yucca	5 gal	4´x4´	LOW
	Leucophyllum frutescens ´Compacta´ / Compact Texas Ranger	5 gal	4´x5´	LOW
	Penstemon eatonii / Firecracker Penstemon	5 gal	3´x3´	LOW
	Ribes viburnifolium / Evergreen Currant	5 gal	3´x6´	LOW
	Romneya coulteri / Matilija Poppy	5 gal	6´x6´	LOW
	Salvia clevelandii ´Winnifred Gilman´ / Winnifred Gilman Cleveland Sage	5 gal	5´x5´	LOW
	Salvia leucophylla ´Figueroa´ / Purple Sage	5 gal	4´x8´	LOW
	Tecoma stans 'Lonesp' / Gold Star Yellow Bells	5 gal	6´x6´	LOW
	Xylosma congestum 'Compacta' / Compact Xylosma	5 gal	8´x8´	LOW
	Yucca rostrata "Sapphire Skies' / Sapphire Skies Beaked Blue Yucca	5 gal	4´x5´	LOW
BIOSWALE				
	Baccharis pilularis / Coyote Brush	1 gal	6´x6´	LOW
	Carex barbarae / Santa Barbara Sedge	1 gal	2´x3´	MEDIUM
	Juncus patens / California Gray Rush	1 gal	3´x3´	MEDIUM
GRASSES				
	Lomandra longifolia 'Roma' / Platinum Beauty Variegated Mat Rush	1 gal	3´x3´	LOW
	Muhlenbergia capillaris / Pink Muhly	1 gal	4´x4´	LOW
	Muhlenbergia rigens / Deer Grass	1 gal	4´x5´	LOW

SYMBOL	BOTANICAL / COMMON NAME	SIZE	H X W	WATER USE	SPACING
GROUND COVERS					
	Acacia redolens ´Lowboy´ / Bank Catclaw	1 gal	2´x8´	LOW	72" o.c.
DECOMPOSED GRANITE					
	Decomposed Granite / Tan from Tehachapi or Mojave	3" Deep			
ROCK					
	Mohave boulder rock - 4"-12"	4"-6" Depth			

PLANTING NARRATIVE

The proposed landscape plant palette consists of low water use shrubs, groundcover, trees, and ornamental grasses that are considered low maintenance, hardy and appropriate in USDA Zone 11 and the City of Barstow, CA.

Evergreen trees are used to screen truck parking areas and loading dock doors, providing year-round visual buffering. Plant selection is guided by fire safety requirements and the site's solar exposure and climatic conditions. Species are chosen for their longevity, emphasizing durable, long-lived varieties of trees, shrubs, groundcovers, and grasses.

Shrubs and groundcover are minimum #1 size. Trees are minimum #15 size with ½ being 24" box. Plant materials shall be spaced to provide substantial cover, but also to allow adequate room to mature into their natural form and ultimate size without required pruning.

IRRIGATION NARRATIVE

The irrigation system will be serviced by a new point of connection. The irrigation design will consist of low volume drip irrigation. Proposed trees shall utilize bubbler irrigation to encourage deep root watering. The overall irrigation system will be designed with a smart irrigation controller. A weather sensor will be used to automatically adjust duration of application in accordance with recent weather conditions based on evapotranspiration. Maximum water allowance will be determined by State code. To also be consistent with the planting design, the irrigation design will create separate irrigation stations by hydrozone, locating plants of different water and solar needs into groups.

LANDSCAPE PERCENTAGE

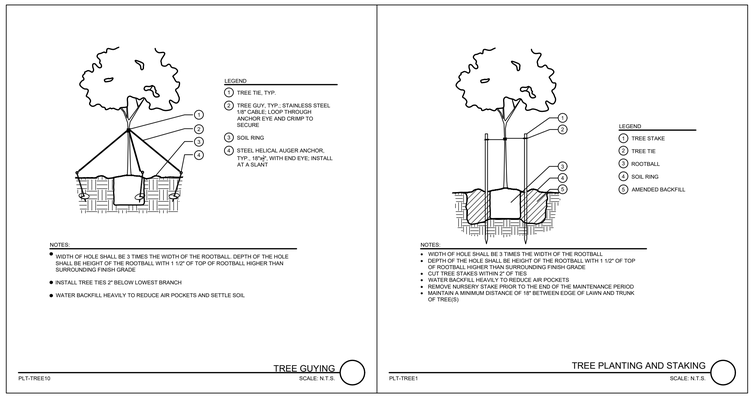
SITE AREA	4,214,069 s.f.
REQUIRED LANDSCAPE PERCENTAGE	15%
LANDSCAPE AREA (NIC PARKING AREAS)	667,607 s.f.
LANDSCAPE PERCENTAGE PROVIDED	15.8%

FRONTAGE TREE REQUIREMENTS

FRONTAGE LANDSCAPE LENGTH	2,920 L.F.
TREES REQUIRED	ONE TREE / 30 L.F. = 97 TREES REQUIRED
TREES PROVIDED	138 TREES

TREE SIZE REQUIREMENTS

TOTAL TREES	955 TREES
TREES REQUIRED TO BE 24" BOX	33% OF TOTAL # OF TREES = 315 TREES
24" BOX TREES PROVIDED	324 TREES



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drawn by : STAFF plot date : 09-16-2025

checked by : JMA

stamp

scale : AS NOTED

project number : 2234046.00

YAMASAKI
LANDSCAPE ARCHITECTURE

PLANT SCHEDULE AND NOTES

sheet no. :

L1.11

File Name: S:\Projects\Barstow EV and Logistics\DWGs\DD\BEVL PL.dwg Date Plotted: January 06, 2026 – 5:34pm